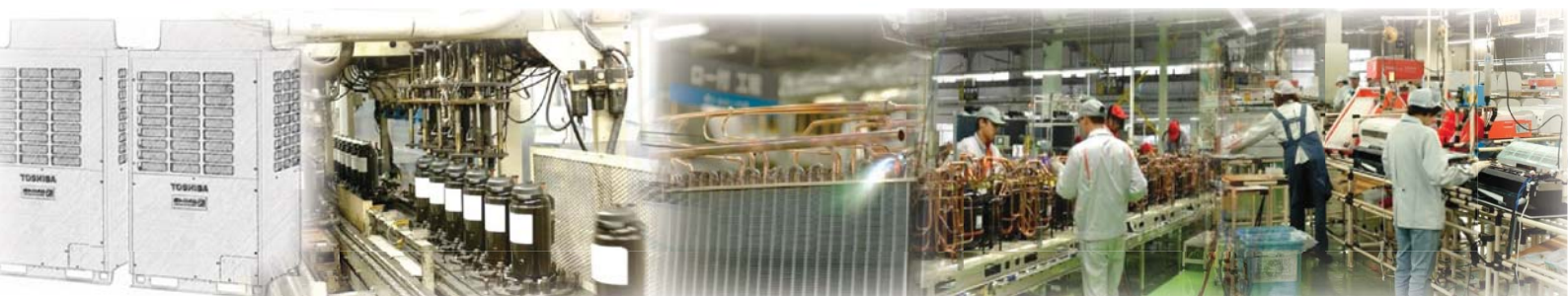
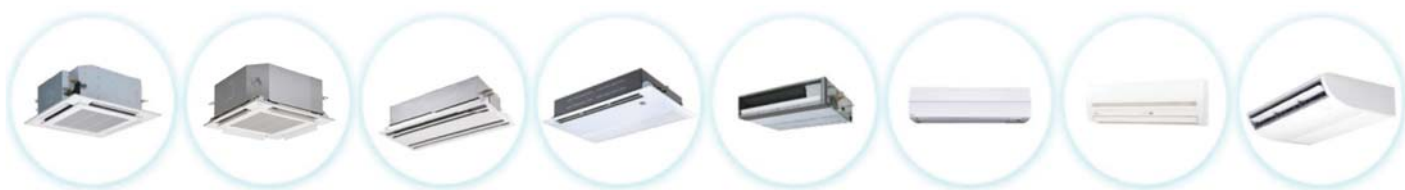


TOSHIBA



Innovated to lead, designed to perform,
engineered to perfection, installed by professionals ...

Residential >>>>
Light Commercial >>>>
Commercial VRF >>>>
Applied >>>>
Air-to-Water >>>>
Controls >>>>

Retail Price List



Toshiba Air Conditioning offering total HVAC Solutions

Whatever
you need

Our vision is to be the No. 1 supplier in the UK of the most technologically-innovative, energy-efficient and environmentally-friendly heating and cooling solutions, combined with a first-class level of customer support.

We provide a number of key services to our customers, these include the following:

- **Spare Parts Availability** - Large stock, European warehouse based in the UK offering a 24-hour turnaround from point of order, including online parts availability check and ordering.
- **Pre-Sales Support** - Offering project support and assistance, equipment schedules, mechanical and electrical schematics and equipment selection.
- **Dedicated Training Sessions** - Training sessions are offered to our customers throughout the year and cover all elements from design and application, installation through to servicing and fault finding. The extensive programme can be delivered at one of our dedicated centres free of charge.
- **Controls** - Full support with an extensive range of standard control systems including bespoke controls and full site support functions to maximise efficiency.
- **Rewards Scheme** - The original and best scheme in the industry offering the most innovative customer reward scheme that sets the bar in terms of support.
- **Energy Efficient** - Industry leading SEER & SCOP figures on our range of equipment, and a commitment to continuous development of energy efficient sustainable solutions.
- **Warranty** - The only air conditioning manufacturer to offer a fully comprehensive warranty scheme, which emphasises our commitment to our customers and confidence in our equipment, with up to 7 years available with full labour content.
- **Technology** - Leading innovation by introducing reliable, innovative and cutting edge technology into our air conditioning systems.
- **24 Hour Helpline** - The only manufacturer in the UK to offer a 24 hour, 7 days per week, technical helpline where you can speak to a trained engineer for support as well as offering a full fault code text back service.
- **Support Tools** - We offer an extensive range of easily accessible support tools including smart phone apps and web based solutions.
- **Network** - A nationwide distribution network, providing easy access to Toshiba equipment, spare parts and services.
- **Technical Engineering Team** - An extensive range of site services available through our fully trained and highly experienced technical engineering team.
- **Carbon Neutral** - Toshiba are the only Carbon Neutral manufacturer of air conditioning products in the UK.
- **Leak Detection** - Toshiba provide the industry's only leak detection system capable of providing BREEAM points.

Warranty Schemes

All air conditioning products distributed by Toshiba Air Conditioning and supplied by Toshiba Carrier UK Limited to Toshiba T5 registered installers or Refcom (or equivalent) F-Gas registered installers, T7 approved partner or T7 enhanced warranty partner are warranted free from defects in manufacture, materials or workmanship for a period of:

5 years - Toshiba T5 registered installers or if installed by Refcom F-Gas registered installers

7 years - Toshiba T7 approved partner or Toshiba T7 enhanced warranty partner

from the date of delivery to the address specified by the Customer within the individual orders. In no event shall the warranty exceed 6 months from manufacture plus the relevant warranty periods above of 5 years or 7 years as applicable above under the terms of the individual order. The date of manufacture shall be determined by the serial number of the equipment in question. In cases where a complete unit is replaced, the replacement shall assume the remainder of the warranty period of the original unit or twelve months whichever is the longer.

Technical Services

Toshiba Air Conditioning offers a full and comprehensive technical service to our customers, starting with a 24/7 telephone technical response service. Enquiries are handled by trained technical engineers with "hands on" field experience of air conditioning systems enabling them to provide a vast knowledge of Toshiba air conditioning products.

Site Visits

Technical assistance for trouble shooting equipment on-site provides field support for the diagnostics of malfunctions of equipment which is either inside or outside of the Toshiba Warranty Period.

Health Check

The system health check provides field support to carry out a detailed health check for Toshiba VRF equipment, R22, R407C and R410A.

VRF Commissioning

The commissioning service provides field support services to commission Toshiba R410A VRF equipment. Please consult the "Toshiba Technical Services Price List" for more information.

Index

Toshiba Air Conditioning	5
Training Toshiba Professionals	9
Online Spare Parts	10
RAS Overviews	11
RAS Split System Overview	11
RAS Multi-Split Inverter Overview	12
RAS Range	13
Mirai High-Wall Mounted Inverter Heat Pump	19
Seiya High-Wall Mounted Inverter Heat Pump	20
Shorai High-Wall Mounted Inverter Heat Pump	22
Daiseikai High-Wall Mounted Inverter Heat Pump	23
Bi-Flow Console Inverter Heat Pump	24
Multi-Split Outdoor Units	25
Multi-Split Mirai High-Wall Indoor Unit	27
Multi-Split Seiya High-Wall Indoor Unit	27
Multi-Split Shorai High-Wall Indoor Unit	28
Multi-Split Cassette Indoor Unit	28
Multi-Split Ducted Indoor Unit	29
Multi-Split Bi-Flow Console Indoor Unit	29
RAV Overviews	30
Split System Overview	30
Twin-Split System Overview	32
Triple-Split System Overview	33
Quad-Split System Overview	34
RAV Digital Inverter and Super Digital Inverter Indoor Units	35
High-Wall Indoor Unit	46
Compact Cassette Indoor Unit	47
4-Way Cassette Indoor Unit	48
Ceiling Indoor Unit	50
Ducted Indoor Unit	52
Slim Ducted Indoor Unit	54
High-Static Ducted Indoor Unit	55
Floor-Mounted Cabinet Indoor Unit	56
Twin-Split High-Wall Indoor Unit	57
Twin-Split Compact Cassette Indoor Unit	59
Twin-Split 4-Way Cassette Indoor Unit	60
Twin-Split Ceiling Indoor Unit	62
Twin-Split Slim Ducted Indoor Unit	64
Twin-Split Ducted Indoor Unit	65
Twin-Split Floor-Mounted Cabinet Indoor Unit	67
Triple-Split High-Wall Indoor Unit	68
Triple-Split Compact Cassette Indoor Unit	70
Triple-Split 4-Way Cassette Indoor Unit	71
Triple-Split Ceiling Indoor Unit	72
Triple-Split Slim Ducted Indoor Unit	73
Triple-Split Ducted Indoor Unit	74
Triple-Split Floor-Mounted Cabinet Indoor Unit	75
Triple-Split Concealed-Chassis Indoor Unit	76

Quad-Split High-Wall Indoor Unit	77
Quad-Split Compact Cassette Indoor Unit	78
Quad-Split 4-Way Cassette Indoor Unit	79
Quad-Split Ceiling Indoor Unit	80
Quad-Split Slim Ducted Indoor Unit	81
Quad-Split Ducted Indoor Unit	82
Quad-Split Floor-Mounted Cabinet Indoor Unit	83
Quad-Split Concealed-Chassis Indoor Unit	84
Dimensions	85
High-Wall Indoor Unit	89
Smart Cassette Indoor Unit	90
Compact Cassette Indoor Unit	91
4-Way Cassette Indoor Unit	92
Ceiling Indoor Unit	94
Ducted Indoor Unit	96
Slim Ducted Indoor Unit	98
Floor-Mounted Cabinet Indoor Unit	99
Twin-Split High-Wall Indoor Unit	100
Twin-Split Smart Cassette Indoor Unit	102
Twin-Split Compact Cassette Indoor Unit	103
Twin-Split 4-Way Cassette Indoor Unit	104
Twin-Split Ceiling Indoor Unit	105
Twin-Split Slim Ducted Indoor Unit	107
Twin-Split Ducted Indoor Unit	108
Twin-Split Floor-Mounted Cabinet Indoor Unit	110
Twin-Split Concealed-Chassis Indoor Unit	111
Triple-Split High-Wall Indoor Unit	112
Triple-Split Compact Cassette Indoor Unit	113
Triple-Split 4-Way Cassette Indoor Unit	114
Triple-Split Ceiling Indoor Unit	115
Triple-Split Slim Ducted Indoor Unit	116
Triple-Split Ducted Indoor Unit	117
Triple-Split Floor-Mounted Cabinet Indoor Unit	118
Triple-Split Concealed-Chassis Indoor Unit	119
Quad-Split High-Wall Indoor Unit	120
Quad-Split Compact Cassette Indoor Unit	121
Quad-Split Ceiling Indoor Unit	122
Quad-Split Slim Ducted Indoor Unit	123
Quad-Split Floor-Mounted Cabinet Indoor Unit	124
Quad-Split Concealed-Chassis Indoor Unit	125
Dimensions	126
VRF Outdoor Units	131
VRF Outdoor Unit Overview	132
VRF Outdoor Units - MiNi SMMSe	135
MiNi SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit/Single Fan VRF 2-Pipe Heat Pump Outdoor Unit	136
Dimensions	137
VRF Outdoor Units - SMMSe	139
SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit	144
SMMSe - VRF 2-Pipe Heat Pump High Efficiency Outdoor Unit	150
Dimensions	152

VRF Outdoor Units - SHRMe	155
SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit	160
SHRMe - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit	164
SHRMe - VRF 3-Pipe Heat Recovery Flow Selector	166
Dimensions.....	167
VRF Indoor Units	171
VRF Indoor Unit Overview.....	172
VRF High-Wall Indoor Unit	174
VRF High-Wall Indoor Unit - 7 Series	175
VRF 4-Way Compact Cassette Indoor Unit.....	176
VRF 4-Way Cassette Indoor Unit	177
VRF 2-Way Cassette Indoor Unit	178
VRF 1-Way Cassette Indoor Unit	179
VRF Slim Ducted Indoor Unit	180
VRF Standard Ducted Indoor Unit.....	181
VRF High-Static Ducted Indoor Unit.....	182
VRF Vertical Ducted Indoor Unit	183
VRF Ceiling-Suspended Indoor Unit - 8 Series	184
VRF Concealed-Chassis Indoor Unit	185
VRF Floor-Mounted Console Indoor Unit	185
VRF Bi-Flow Console Indoor Unit	186
VRF Floor-Mounted Cabinet Indoor Unit.....	187
VRF Fresh Air Intake Indoor Unit	188
VRF Hot Water Module Indoor Unit.....	189
VRF High Temperature Hot Water Module Indoor Unit	190
Air Handling Units Interface Panels.....	191
RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32	192
RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R32	194
RBC-AHU1 Air Handling Unit Applications Digital Inverter - R410A.....	195
RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R410A	196
Wiring Diagram for RBC-AHU1	197
VRF Air Handling Unit Applications Single-Circuit DX Coils	198
VRF Air Handling Unit Applications Multi-Circuit DX Coils	200
Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter	205
Air Handling Unit 0-10 V BMS Control - SMMSe	207
Air Curtains	208
Fre-sh-air and Enviroscreen VRF Air Curtain	209
VRF Air Curtains.....	210
Air Curtains Digital Inverter	211
Air Curtains Super Digital Inverter	212
Air-to-Air Heat Exchangers.....	213
Air-to-Air Heat Exchangers Standard Version	214
VRF Air-to-Air Heat Exchangers + DX Coil	215
VRF Air-to-Air Heat Exchangers + DX Coil + Humidifier	216
Estia Air-to-Water Heat Pumps.....	217
Estia Air-to-Water Heat Pump Split System Overview	219
Estia Air-to-Water Heat Pump	220
Estia Air-to-Water Heat Pump Powerful	222
Estia Air-to-Water Heat Pump Monobloc.....	224

Controls	225
The Local Network	226
Black Pear	226
Touch Screen Controller	227
BACnet	227
Windows Package	228
Smart Manager Controller	228
LonWorks Gateway	229
BMS Interface.....	229
RBC-TSI1	229
Remote controllers for use with RAV and VRF indoor units	230
Network Controls	233
Building Management Systems	233
Leak Detection and Containment - Panels	237
Leak Detection and Containment - Repeaters	238
Leak Detection and Containment - Detectors	239
Accessories	241
Accessories - Control Panels, Software, Infra-red and Wired Controllers.....	241
Accessories - Controls: Wired Controllers and Indoor Interfaces.....	242
Accessories - Controls: Indoor Interfaces, Indoor Interface Leads and Interfaces.....	243
Accessories - Controls: Interfaces, Outdoor Interfaces	244
Accessories - Piping Kits: Branch Joints, Headers and Y-Joints.....	245
Accessories - Miscellaneous: Spigots, Pumps, Heater Kits, Coil Coatings and Case Sections	246
Other Brands	247

The information shown in this Price List is based on the following data:

- Nominal capacities are based on NEMA - Cooling: indoor air temperature 27°C DB/19°C WB, outdoor air temperature 35°C DB/24°C WB. Heating: indoor air temperature 20°C DB, outdoor air temperature 7°C DB.
- UK capacities are based on the following conditions - Cooling: indoor air temperature 23°C DB/16°C WB, outdoor air temperature 29°C DB, 5 m or 7.5 m (dependent on mode) pipe run and high fan speed. Heating: indoor air temperature 20°C DB, outdoor air temperature -5°C DB/100% RH, 5 m or 7.5 m pipe run and high fan speed. Values are based on the maximum compressor output.
- The sound pressure levels are based on - Outdoor units at 1 m distance, indoor units at 1.5 m distance.
- The maximum run current is based on 230 V/1 phase/50 Hz or 380 V/3 phase+N/50 Hz.

IMPORTANT NOTICE

The Toshiba Air Conditioning Price List and information contained therein has been obtained from the manufacturer. The details are subject to change from time to time and availability of the products cannot always be assured at short notice. Toshiba Carrier UK Ltd shall bear no liability for information contained within this document and it is incumbent on purchasers to make enquiries prior to placing any order.

The relevant terms contained within the Toshiba Carrier UK Ltd Terms of Sale and Installation (available on the following website: www.toshiba-aircon.co.uk) shall apply unless the purchaser has alternative signed terms of agreement with Toshiba Carrier UK Ltd.

Toshiba Air Conditioning

We Are Toshiba



With our diverse range of solutions we can provide you with a strong foundation for business success. Everything we do is underpinned by a key set of values that help you meet the challenges of an ever-changing business and technology landscape.

Our solutions are built for today and tomorrow – which means you can feel confident knowing your technology will deliver reliability and longevity as you move forwards. And we'll be here to support you every step of the way.

Committed to people; committed to the future

We endeavour to serve the needs of every business by implementing forward-looking corporate strategies while carrying out responsible and responsive business activities. And by continually developing innovative technologies, we strive to create products and services that help to realise the goals of businesses everywhere.

Since our establishment in 1875, our core values have inspired us to fulfil our corporate social responsibilities in all we do. They help us create a higher quality of life for all people, and ensure our progress continues within the world community. We face many challenges today, but our commitment remains unchanged.

Business Domains

Toshiba is well known for consumer goods and air conditioners. But behind the scenes, people everywhere rely on Toshiba power generation systems, semi-conductors and transportation products.

Fulfilling the requirement for a stable energy supply

Our energy and infrastructure group is working to ensure a stable supply for everyone, while reducing CO₂ and greenhouse gas emissions through hydro, solar, geothermal and wind power generation. The division will also look to thermal, hydroelectric and nuclear power generation to supplement supply. In addition, we are employing smart metering technologies and demand management, the integration of renewables and advanced battery energy storage systems to further improve energy efficiency, reliability and the sustainable use of resources.

Meeting new retail expectations

Technology's rapid development will affect traditional retail operations, which is why we're working to redefine the interaction between retailers and customers – both online and in stores. Toshiba's retail solutions are designed to support transactions from virtually any location or device. Toshiba lifestyle products and services remain key to our future success. With a wealth of in-house technology to exploit, we focus on cutting-edge products in terms of key attributes - ultra-thinness, lightweight and breathtaking audio-visual performance.



Electronic devices
NAND Flash memory
Solid state drives

Power systems and social infrastructure
Steam turbine generators
Transmission and distribution
Smart meter
Transportation
Batteries for Eco-cars

Community solutions
Retail solutions
Air conditioning
LED lighting
Elevators
Escalators

Toshiba Air Conditioning

Toshiba Brand Pillars

Everything we are informs everything we do. Our core values help to shape our products and solutions – ensuring your business is supported in exactly the right ways.



Quality and reliability

Quality and reliability is at the heart of everything we do. With technologies being developed in more than 30 separate R&D laboratories, and over 300 subsidiary companies around the world, Toshiba engineers are dedicated to finding the best product solutions for you, the customer.



Environmental credentials and sustainability

Toshiba actively contributes to creating a richer lifestyle for society that is in harmony with the Earth. Our vision is to increase eco-efficiency by 2050 and improve the way we build our products. From full-featured laptops to consumer products, everything is built eco-smart and designed to minimise harm to the environment. To lessen the environmental impact and take action on CO₂ emissions, Toshiba Air Conditioning in the UK has been a certified CarbonNeutral® division since 2012.



Return on investment [ROI]

Our technology is built to last. In fact, we pride ourselves on developing quality, future-proof products that require less maintenance over their lifetime – which ultimately leads to a lower total cost of ownership.



Corporate social responsibility [CSR]

Our world today faces diverse social issues due to population growth, fast-growing demand for energy and shortages of natural resources. We contribute to solutions to these problems, while supporting our own steady and sustainable growth. Our CSR is supported by the activities of each and every one of our 200,000 employees.



Simplicity

Simplicity is at the heart of everything we do. We constantly strive to solve the many complexities of technology, trends and business with simple, eco and energy-efficient solutions – which leaves you free to focus on running your organisation.

Environmental Vision 2050

Toshiba Group practises environmental management that promotes harmony with Earth, contributing to the creation of a richer lifestyle for society.



Toshiba Air Conditioning

It's What We Do

We provide an extensive range of air conditioning systems for a wide variety of residential, commercial and business environments. All of our products provide a cost-effective solution for heating and cooling of buildings and are engineered with energy efficiency and reliability in mind, complying with European Eco-Design guidelines. Our residential air conditioning products feature modern designs with energy savings that create a comfortable atmosphere.

Our commercial systems include advanced solutions to ensure the thermal comfort and flexibility of offices, hotels and industrial buildings, with environmental initiatives such as R22 replacement technology.

With the total energy consumption of many buildings increasing, it is important to achieve energy savings in the field of comfort heating and cooling. That's why we've put emphasis on the development of innovative solutions within our compressors, coil technology and hybrid inverter controls that result in the improvement of the air conditioning system in terms of both performance and operating efficiency offering the highest levels of user comfort, superior air flows and improved energy consumption.



Eurovent Certification certifies the performance ratings of air conditioning and refrigeration products according to European and international standards.

Toshiba's participation in the Eurovent program is a guarantee to its customers and users that our products will operate in accordance with the design specifications, that the data published and communicated are real and therefore the energy consumption and costs are correctly stated.



Reliable Solutions For The Commercial Market

Toshiba provides solutions for a wide range of sectors from large commercial offices, department stores, hospitals and laboratories through to smaller high street stores, food outlets, offices and server rooms. Our years of experience working with installers, retailers and specifiers have helped us to identify the challenges faced by our customers to develop bespoke solutions that exceed expectations.

"As a result of our extremely low failure rate, Toshiba offers an industry-first 7-year 'Comprehensive Warranty'."

For a more inspiring world



The world is changing. Let's be ready for it!

At Toshiba, we've always made sure our projects and objectives are designed with a better future in mind. Cutting-edge ideas and innovation are at the heart of everything we do, and always applied with the aim of preserving the planet.

Now, more than ever, attitudes are changing as technology continues to revolutionise our world. We don't simply follow or adapt to them; we predict them.

That's why the new generation of Toshiba air conditioners uses the new refrigerant R32 with low global warming potential. Toshiba is working to create a better future for our planet, for ourselves and for our children.

For a more inspiring world.



An easy change ...

The fundamental design and control of Toshiba systems remains unchanged with the new R32 refrigerant. Toshiba's unique combination of twin rotary compressors and all-inverter driven control also contributes to guaranteed accuracy and expertise of flawless Japanese quality. All these result in the high level of performance and efficiency Toshiba customers are used to.

... To the benefit of all

Environmentally oriented:

- The perfect balance between environment safety and your comfort
- Energy efficiency increased for greater savings

Installer friendly

- Working pressures for R410A and R32 refrigerant are similar
- R32 refrigerant can be easily charged in both liquid or gas state
- Safety commissioning instructions are similar to those for R410A
- R32 and R410A equipment are the same except for the recovery pump and the reclaim cylinder
- Toshiba flare joints certified ISO14903, by anticipation of the new IEC60335-2-40 edition 5 regulation, will allow flare connection inside the room.

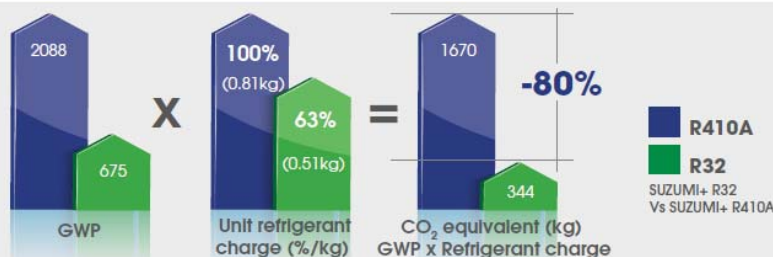


The right choice to make

By choosing Toshiba, you go a step further to benefit from smart, reliable and safe system solutions.

- Complete ranges for residential and light commercial markets
- 30% reduction in refrigerant charge = 80% reduction in equivalent CO₂ emissions
- New features including leak detection, energy monitoring (SDI)(3)
- Dual refrigerant indoor units to reduce inventory
- Eurovent certification

R32's low global warming potential, combined with a 30% reduction of refrigerant charge in Toshiba units, allows a reduction of the total equivalent CO₂ by 80% of the system, in comparison with equivalent capacities of Toshiba R410A legacy units.



Training Toshiba Professionals

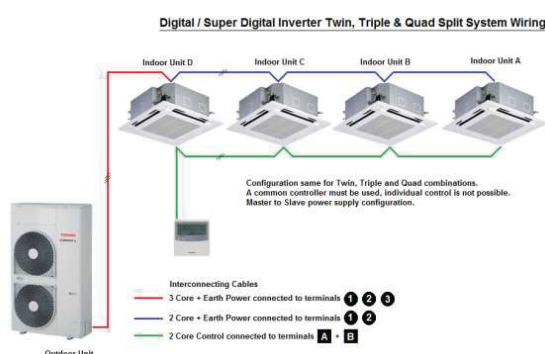
Toshiba Carrier UK Ltd is proud to be part of the United Technologies Corporation, a global group of companies built up of specialist industry leaders. Toshiba Air Conditioning is no exception. Toshiba is committed to ensuring that our customers receive the highest level of support and training to enable them to deliver technical excellence and expertise to the users of Toshiba air conditioners. Our training programme contains ten primary courses, four of which are mandatory to comply with our warranty terms and conditions:

- Residential and light commercial (RAS/DI/SDI) - installation and service
- Commercial range (VRF) - installation and service
- Controls
- Refresher course (RAS/DI/SDI/VRF)
- Thermodynamics and basic air conditioning principles
- Basic practical air conditioning installation and fault finding
- Commercial range (VRF) - design and application
- Refrigerant leak detection systems
- Air-to-water systems (Estia)
- Understanding legislation and EUP Lot 10
- *Mandatory courses*

All of our training courses have been devised to ensure that we offer professionals the product and development training they require and deserve to deliver the highest possible standards. It also confirms our support to the industry in ensuring that high levels of professionalism are encouraged and maintained in our efforts to deliver excellence in all aspects of our supply chain. Delegates attending these courses receive electronic copies of the presentation material, course notes, a Technical HandBook Manual, certificate of achievement and personal Cardholder Identification Card valid for 3 years from date of registration.

Our courses are informative, beneficial and assist and enable professionals to deliver the right skills set required for the successful installation, service and maintenance of Toshiba air conditioners and applied products, and accordingly ensure the longevity of the equipment for the user. Delegates can register their interest in any course by simply contacting a local Toshiba Distributor or alternatively the Toshiba Training Team to discuss any requirements on:

Tel: **0870 843 333**
or e-mail: **toshiba.training@toshiba-ac.com**



Training courses are conducted at our dedicated training facilities located in Leatherhead and Manchester. We are able to offer nine other training facilities located throughout the UK which are conducted by our distribution network. Each location has their own dedicated trainer to deliver the courses set out above.

Online Spare Parts

Meeting Your Needs

As a direct result of feedback we received from our customers both in the UK and across Europe we developed a single point of contact for our "Spare Parts Centre" covering all products produced and manufactured in Japan, Thailand and UK in one website with a straightforward search facility.

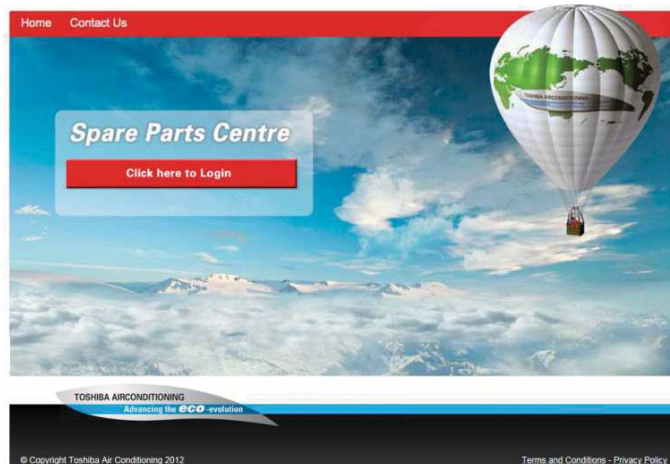
Features include:

- Search by model facility
- Full parts listing by model
- Exploded views in .pdf format
- Price and availability enquiry
- Option to place an order

The Toshiba Spare Parts Centre is accessed via:

www.toshiba-hvacspares.com

Simply register for secure access which is achieved using the website login page. Validated Toshiba customers receive a confirmation e-mail with attached user instructions typically within 24 hours of the application. We suggest and recommend that applicants use their e-mail address for the User Name.



Entirely scalable solutions

Toshiba Air Conditioning develops cutting-edge technologies and advances that benefit people everywhere by offering the ideal combination of comfort and ecologically-superior products for residential, light commercial and large building applications.

Toshiba Air Conditioning is the pioneer of inverter air conditioning, technology which was developed in-house.

Superior manufacturing quality

Toshiba Air Conditioning's innovations ensure comprehensive building air conditioning solutions which have been subject to strict evaluation testing to guarantee world-class reliability.

Third party institute certifications for quality, safety and performance, guaranteed (TÜV, Eurovent, WEEE, RoHS, REACH, Intertek, NFPAC Certita, WPZ).



RAS Overviews

RAS



RAS Split System Overview

Nominal Cooling Capacity		kW	1.5	2	2.5	3.5	4.5	5.3	6.0	7.1
Nominal Heating Capacity		kW	2	2.5	3.2	4.2	5.5	5.6	7.0	8.1
		hp	0.6	0.8	1	1.5	1.7	2	2.5	3
Wall-Mounted		RAS Mirai R32 Full Spec Page 19	1 phase	£560 B05BKVG-E/ 05BAVG-E	£589 B07BKVG-E/ 07BAVG-E	£601 B10BKVG-E/ 10BAVG-E	£669 B13BKVG-E/ 13BAVG-E	£923 B16BKVG-E/ 16BAVG-E	£1,041 18BKVG-E/ 18BAVG-E	£1,248 24BKVG-E/ 24BAVG-E
		RAS Seiya R32 Full Spec Page 20	1 phase	£582 B05J2KVG-E/ 05J2AVG-E	£613 B07J2KVG-E/ 07J2AVG-E	£626 B10J2KVG-E/ 10J2AVG-E	£695 B13J2KVG-E/ 13J2AVG-E	£964 B16J2KVG-E/ 16J2AVG-E	£1,152 18J2KVG-E/ 18J2AVG-E	£1,387 24J2KVG-E/ 24J2AVG-E
		RAS Shorai R32 Full Spec Page 22	1 phase			£829 B10PKVSG-E/ 10PAVSG-E	£974 B13PKVSG-E/ 13PAVSG-E	£1,149 B16PKVSG-E/ 16PAVSG-E	£1,229 18PKVSG-E/ 18PAVSG-E	£1,365 B22PKVSG-E/ 22PAVSG-E
		RAS Daiseikai 9 R32 Full Spec Page 23	1 phase			£1,374 10PKVPG-E/ 10PAVPG-E	£1,443 13PKVPG-E/ 13PAVPG-E	£1,745 16PKVPG-E/ 16PAVPG-E		
Floor Type		RAS Bi-Flow Full Spec Page 24	1 phase			£1,156 B10U2FVG-E/ 10PAVSG-E	£1,339 B13U2FVG-E/ 13PAVSG-E		£1,579 B18U2FVG-E/ 18PAVSG-E	

RAS Overviews

RAS

RAS Multi-Split Inverter Overview



Multi-Split Inverter Heat Pump			Indoor Units						
kW		R32 Outdoor Unit Price	kW	R32 Mirai High-Wall	R32 Seiya High-Wall	R32 Shorai High-Wall	R32 Bi-Flow	R32 600 x 600 Cassette	R32 Ducted
4.0		Full Spec Page 25 £846 RAS-2M10U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
4.4		Full Spec Page 25 £882 RAS-2M14U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
5.6		Full Spec Page 25 £969 RAS-2M18U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
			4.5	£208 RAS-B16BKVG-E	£245 RAS-B16J2KVG-E	£320 RAS-B16PKVSG-E		£1,106 RAS-M16U2MUVG-E	£722 RAS-M16U2DVG-E
6.8		Full Spec Page 25 £1,370 RAS-3M18U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
			4.5	£208 RAS-B16BKVG-E	£245 RAS-B16J2KVG-E	£320 RAS-B16PKVSG-E		£1,106 RAS-M16U2MUVG-E	£722 RAS-M16U2DVG-E
9.0		Full Spec Page 26 £1,630 RAS-3M26U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
			4.5	£208 RAS-B16BKVG-E	£245 RAS-B16J2KVG-E	£320 RAS-B16PKVSG-E		£1,106 RAS-M16U2MUVG-E	£722 RAS-M16U2DVG-E
			5.3				£724 RAS-B18U2FVG-E		
			6.0			£376 RAS-B22PKVSG-E			£844 RAS-M22U2DVG-E
			7.1			£432 RAS-B24PKVSG-E			£873 RAS-M24U2DVG-E
9.0		Full Spec Page 26 £1,984 RAS-4M27U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
			4.5	£208 RAS-B16BKVG-E	£245 RAS-B16J2KVG-E	£320 RAS-B16PKVSG-E		£1,106 RAS-M16U2MUVG-E	£722 RAS-M16U2DVG-E
			5.3				£724 RAS-B18U2FVG-E		
			6.0			£376 RAS-B22PKVSG-E			£844 RAS-M22U2DVG-E
			7.1			£432 RAS-B24PKVSG-E			£873 RAS-M24U2DVG-E
12.0		Full Spec Page 26 £2,255 RAS-5M34U2AVG-E	1.5	£155 RAS-B05BKVG-E	£170 RAS-B05J2KVG-E				
			2.0	£163 RAS-B07BKVG-E	£179 RAS-B07J2KVG-E				£660 RAS-M07U2DVG-E
			2.5	£168 RAS-B10BKVG-E	£183 RAS-B10J2KVG-E	£273 RAS-B10PKVSG-E	£600 RAS-B10U2FVG-E	£977 RAS-M10U2MUVG-E	£669 RAS-M10U2DVG-E
			3.5	£172 RAS-B13BKVG-E	£188 RAS-B13J2KVG-E	£289 RAS-B13PKVSG-E	£654 RAS-B13U2FVG-E	£1,051 RAS-M13U2MUVG-E	£677 RAS-M13U2DVG-E
			4.5	£208 RAS-B16BKVG-E	£245 RAS-B16J2KVG-E	£320 RAS-B16PKVSG-E		£1,106 RAS-M16U2MUVG-E	£722 RAS-M16U2DVG-E
			5.3				£724 RAS-B18U2FVG-E		
			6.0			£376 RAS-B22PKVSG-E			£844 RAS-M22U2DVG-E
			7.1			£432 RAS-B24PKVSG-E			£873 RAS-M24U2DVG-E

RAS Range



RAS

Air Conditioning For Residential Use

Toshiba's innovative single-split systems employ advanced technologies that deliver superior comfort and peace of mind. The DC hybrid inverter technology ensures set room temperature is quickly reached and precisely maintained. Quiet operation, air filtration and purification, self-cleaning and one-touch pre-sets are some of the many features that deliver efficient cooling and heating.

FEATURES

High energy efficiency

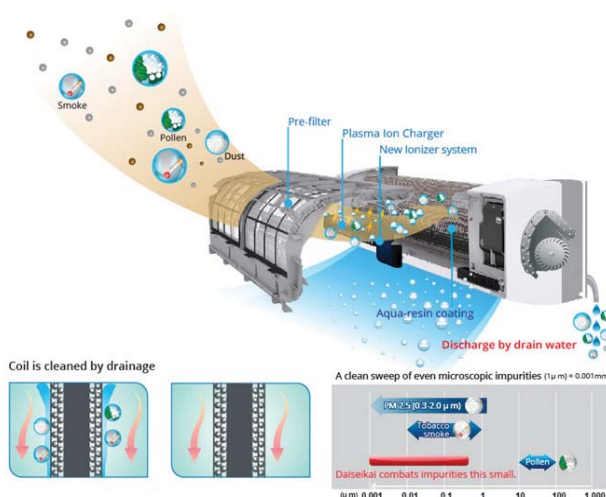
The Daiseikai achieves the highest level of energy efficiency, both in cooling and heating. Daiseikai has top-level labelling. The Toshiba Inverter Air Conditioner is another level of technology that has been developed for lifestyle today, tomorrow and in the future. The modern design creates fresh air for better quality of life with less energy consumption, and easier control with just one touch. An advanced technology that you can breathe, touch and experience.

Comfort

A complete filtration system that deodorises air and provides a pure and healthy environment. Plasma Ion Purifier System is a combination of Plasma Ion Charger and Ionizer system. The system has been developed to provide maximum IAQ to every user. The user can activate this feature by pressing the PURE button.

Air conditioners can get very dirty inside, collecting bacteria and allergens. Toshiba's Aqua Resin-coated coil reduces the formation of water or oil on the coil unit as well as minimises dust accumulating on the coil.

Self-cleaning system: the air conditioner will run on slow-speed for 20 minutes to dry the coil, which will effectively prevent any odour from mould or germs.



Plasma Ion Charger

Plasma ion charger operates in 3 following steps:

STEP 1

Pollutants go thru the area where negative ions are created.

STEP 2

Pollutants are forced to adopt negative ions.

STEP 3

Pollutants with negative ion charge is attracted by coil, and consequently released out via drainage.

High-Wall Indoor Unit



The Future Is Now

Innovation, efficiency, high reliability, energy savings, environmental respect ... These are the powerful values at the heart of Toshiba's DNA.

For over 50 years Toshiba has been providing its clients with the guaranteed accuracy and expertise of flawless Japanese quality.

Technological, stylish, highly-efficient and environmentally-friendly, the new Toshiba high-wall unit proudly upholds the values rooted firmly in its name: in Japanese, MIRAI means FUTURE.

The new MIRAI heating and cooling system was developed in high-performance design and engineering facilities. It offers unbeatable comfort and exceptional energy savings.



The new entry-tier SEIYA cooling and heating system was developed with higher performance and improved energy savings. Energy efficiency class for all systems is A++/A+.

Energy efficiency by design

Toshiba products are designed to optimise energy performance at any time of year. This in turn reduces the amount of indirect CO₂ emissions generated by electricity consumption.

Lowest level refrigerant charge

Toshiba is committed to minimising the refrigerant charge of its products and has made this a key performance indicator for all new product development.



SEIYA guarantees well-being at its best - and at its quietest!

Throughout its development, the utmost care and attention was paid to keeping sound to an absolute minimum. And that makes the new high-wall unit the quietest in its category down to 19 dB(A).

RAS Multi-Split Range

Multi-Split Inverter

Toshiba's Multi-Split system allows air conditioning operation to up to five units from a single outdoor unit, making it an exceptionally flexible solution for large spaces. Its small footprint and flexible piping enables installation of the outdoor unit virtually anywhere and out of sight. Each indoor unit can be individually controlled for even more efficiency and comfort where and when it is needed.

FEATURES

High energy savings

Toshiba high-quality multi-split systems contribute to drastically reducing operating costs and increasing energy efficiency. The multi-split outdoor unit achieves efficiency in partial load conditions where the Toshiba inverters deliver their best performance. Toshiba's new super-efficient DC twin-rotary compressor enables top-class performance at low energy consumption. With this efficient unit, operating costs decrease dramatically, compared to other multi-split systems.

Comfort

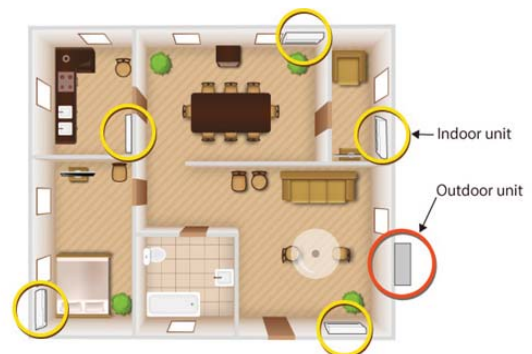
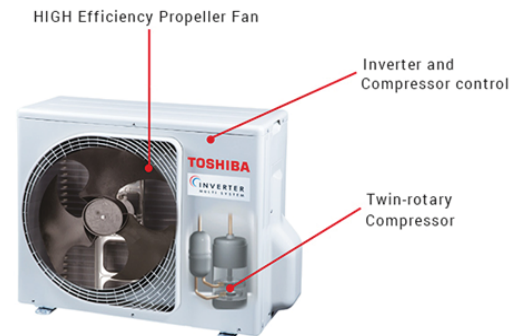
Toshiba Inverter multi systems feature higher standards of indoor air quality, sound levels and environmental awareness. Special attention has been dedicated to night-time comfort, with the improvement of the silent operation mode, available in indoor units.

Flexibility

One outdoor unit can serve up to five indoor units for exceptional flexibility and reliability.

Toshiba Inverter multi system outdoor units are lightweight and compact. Just one outdoor unit takes up little space on a wall or in a yard. It keeps the exterior of buildings neat with quieter operation.

Choose from four types of indoor units, high-wall, ducted, compact 4-way cassette and console type to suit any design.



Indoor Units

At Toshiba, surpassing your expectations has always been at the heart of everything we do. Our goal is to ensure you can enjoy greater comfort and perfect peace of mind at all times by offering you products at the leading edge of innovation. Toshiba is one of the first providers on the market to present a full multisplit range with R32.

The Toshiba Multi-Split system is the environmentally-friendly solution, providing simple and effective multi-room comfort for all types of home, all year round. With just one outdoor unit, this system is not only easy to conceal, it also significantly reduces noise levels for a quieter environment. With outstanding energy efficiency and low global warming potential, Toshiba air conditioners are the best solution when it comes to combining environmental concerns with exceptional comfort. Toshiba is working to create a better future for our planet and for our children.

The new Toshiba indoor units are a perfect fusion of aesthetics and technology. With their discreet look, their flowing lines, simple curves and backlit finishing, they are truly a high-tech decorative ornament. Their harmonious design and highly compact sizes blend perfectly into any home decor.



New high-wall units

The best solution for residential cooling and heating of up to 5 rooms

Shorai

Improve your quality of life with a stylish and energy-efficient indoor unit.

- Extensive choice of indoor units, perfect for any room size: seven sizes available, from compact (275 x 790 mm) to large (320 x 1050 mm).
- Modern rounded aesthetics for a slim look, and a premium glossy finish to complement any interior.
- Extremely quiet indoor unit (noise level down to 20 dB(A)).
- Multiple features for optimum comfort, including smart air flow diffusion (3D on large models).
- Premium indoor air quality guaranteed by the Toshiba IAQ filter technology for a fresh, healthy environment.



Daiseikai 9

Choose the ultimate in comfort with Daiseikai 9 and enjoy peace of mind at all times.

- Modern and elegant aesthetics, with a glossy finish to complement any interior.
- An extremely quiet indoor unit (down to 20 dB(A)) combined with a best-in-class outdoor unit noise level.
- Toshiba's unique noise reduction function of outdoor unit by -4 dB(A) for neighborhood comfort.
- Premium indoor air quality guaranteed by the Plasma Ion Charger filtration system, combined with a self-cleaning coil.
- 3D smart air flow system with independent louvres and 6 patterns for unlimited comfort.

Mirai

Enjoy style, comfort and efficiency, all wrapped up in an affordable design.

- A truly decorative ornament with its designer look, flowing lines and glossy finishing.
- Long-lasting performance and high-quality air environment thanks to the self-cleaning coil.

Console

A unique, flexible comfort solution for perfect heating and cooling of any room size.

- Toshiba advanced filters for healthy indoor air quality.
- Bi-flow system with floor heating mode for optimum comfort.
- Advanced self-cleaning indoor coil function.



Ducted

A highly flexible solution for discreet installation, with no compromise on comfort.

- Wide choice of sizes including new large capacity with sizes 22 and 24.
- Slim and compact design, just 210 mm in height, perfect for any house layout.
- Ducted for very low noise levels.
- 4-step external static pressure adjustment (up to 45 Pa) and long air ducts for adaptation to any installation configuration.

The best solution for light commercial applications

Compact cassette

The perfect light commercial solution for advanced air control and discreet design.

- A compact panel that fits perfectly in the 620 x 620 mm ceiling grid T-bar and a slim chassis 650 mm height adapted to ceilings with restricted void spaces.
- Panel is just 10 mm in depth. The elegant design blends seamlessly into any surroundings.
- Louvres that close completely when the indoor unit is off, for maximum discretion.
- Each louvre can be set separately to optimise air flow diffusion in four directions.
- Integrated infra-red receiver and motion sensor (optional) for hassle-free operation.



Advanced Control

Well-Being On Demand

Toshiba offers simple-to-use automation solutions that gives the user direct or remote control of the ambient temperature of every room.

They can achieve bespoke comfort through high-precision management and programming of air conditioning or heating, and that means exceptional energy consumption control. In short, comfort and quality of life that are fully in line with individual requirements.

Standard remote control

Combining all essential functions, it offers rapid access to Economy and High Power modes and includes mode adjustments, fan speed, set point and air flow direction as standard.



Weekly remote control

This optional high-end remote control ensures total control of the temperature of each room. Its backlit screen displays all data via simple and user-friendly navigation. Three basic function keys – start, command change, favourite settings – are accessible directly below the screen, while advanced functions can be accessed by lifting the protective cover. The timer function allows up to 4 daily settings, or 28 programs per 7-day period.

Anytime, anywhere

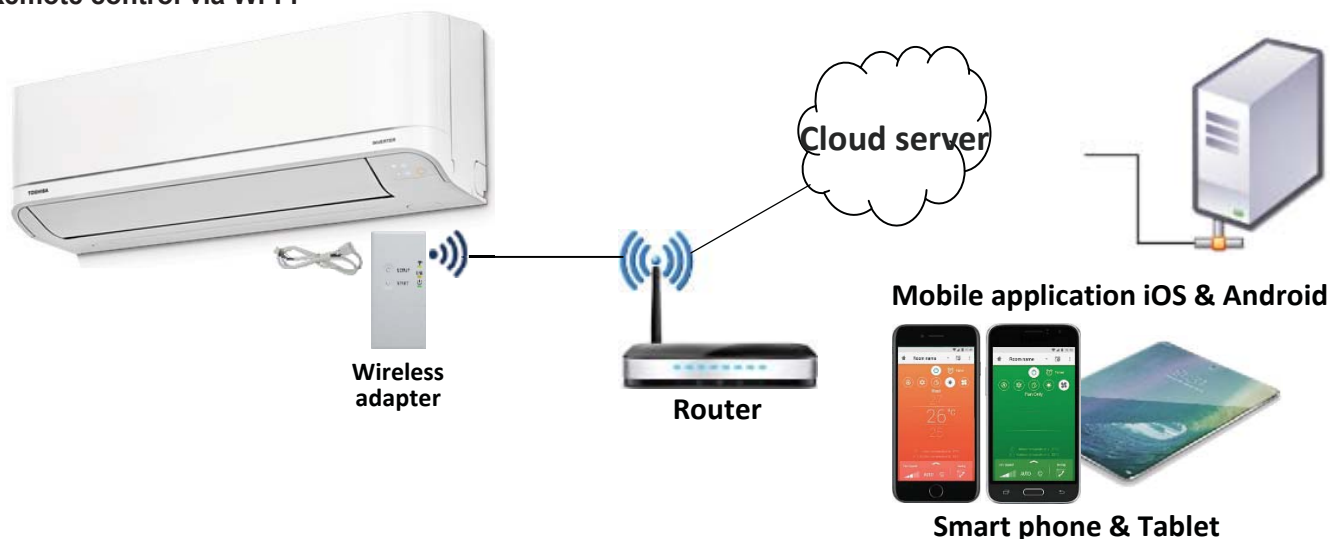
With the comfort of its users in mind, Toshiba offers remote functions that make everyday life simpler. As a truly connected object, indoor units can be utilised anytime, anywhere, thanks to a series of SMS or Wi-Fi remote control solutions that offer maximum wellbeing and optimised energy savings.

Remote control via GSM and SMS

Remote control via an IOS or Android smartphone is possible by downloading the dedicated “Combi Control” app. This then uses SMS to send standard commands directly to the Combi Control box installed at home. The result is made-to-measure comfort in just a few secure clicks.



Remote control via Wi-Fi





Mirai High-Wall Mounted Inverter Heat Pump

CODE			15	20	25	33	46	50	65
Performance									
Indoor Unit		RAS-	B05BKVGE-E	B07BKVGE-E	B10BKVGE-E	B13BKVGE-E	B16BKVGE-E	18BKVGE-E	24BKVGE-E
Outdoor Unit		RAS-	05BAVGE-E	07BAVGE-E	10BAVGE-E1	13BAVGE-E1	16BAVGE-E	18BAVGE-E	24BAVGE-E
Nominal	Cooling Capacity	kW	1.5	2.0	2.5	3.3	4.6	5.0	6.5
	Heating Capacity	kW	2.0	2.5	3.2	3.6	5.4	5.4	7.0
UK	EER/COP	W/W	3.85/4.26	3.45/3.91	3.25/3.76	2.92/3.75	3.01/3.48	3.23/3.38	2.89/3.33
	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36	4.88/3.57	6.35/4.40
Cooling EN14825	Heating	kW	1.18	1.60	2.03	2.20	3.33	3.34	4.31
	Range Min. - Max.	kW	0.66 - 2.00	0.67 - 2.60	0.68 - 3.00	0.75 - 3.60	1.20 - 5.3	1.3 - 5.5	1.6 - 7.2
Heating EN14825	Power Input	kW	0.39	0.58	0.77	1.13	1.53	1.55	2.25
	Pdesign	kW	1.5	2.0	2.5	3.3	4.6	5.0	6.5
SEER/Energy Efficiency Class			5.60/A+	5.60/A+	5.70/A+	5.60/A+	6.20/A++	6.30/A++	6.10/A++
Seasonal Energy Consumption		kWh/a	94	125	153	206	260	278	373
Heating EN14825	Range Min. - Max.	kW	0.54 - 3.00	0.55 - 3.30	0.71 - 3.90	0.72 - 4.50	0.93 - 6.40	1.0 - 6.0	1.6 - 8.1
	Power Input	kW	0.47	0.64	0.85	0.96	1.55	1.60	2.10
Heating EN14825	Pdesign	kW	1.6	2.0	2.4	2.8	4.0	3.8	5.4
	SCOP/Energy Efficiency Class		4.00/A+	4.00/A+	4.00/A+	4.00/A+	4.20/A+	4.00/A+	4.00/A+
Seasonal Energy Consumption		kWh/a	560	700	839	980	1334	1329	1890

Indoor Data		RAS-	B05BKVGE-E	B07BKVGE-E	B10BKVGE-E	B13BKVGE-E	B16BKVGE-E	18BKVGE-E	24BKVGE-E
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73	213 - 92	233 - 133	298 - 185
	High - Low	m³/h	522 - 234	534 - 234	552 - 240	618 - 264	768 - 330	840 - 480	1074 - 666
Sound	Pressure High - Low	dB(A)	37 - 22	38 - 23	39 - 24	42 - 24	43 - 25	48 - 32	48 - 35
	Power High - Low	dB(A)	52 - 37	53 - 38	54 - 39	56 - 39	58 - 40	63 - 47	63 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
	Weight	kg	9	9	9	9	10	9	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14	16/14	16/14
Remote controller			WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)

Outdoor Data		RAS-	05BAVGE-E	07BAVGE-E	10BAVGE-E1	13BAVGE-E1	16BAVGE-E	18BAVGE-E	24BAVGE-E
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1800 - 500	1800 - 500	1860 - 517	1980 - 550	2160 - 600	2160 - 600	2220 - 617
Sound	Pressure High Cooling/Heating	dB(A)	48/50	48/50	49/51	50/51	50/52	50/52	55/55
	Power High Cooling/Heating	dB(A)	63/65	63/65	64/66	65/66	65/67	65/67	70/70
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	21	21	23	23	34	34	38
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-15	2-15	2-15	2-15	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12	±12	±12	±12	±12
	Drain Port Connection	mm	16	16	16	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.4/15	0.4/15	0.43/15	0.43/15	0.8/15	0.88/15	1.08/15
	Additional Charge	g/m	0	0	0	0	20	20	20
Run Current	Maximum	A	2.40	3.25	4.20	5.50	7.19	7.50	10.55
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply*	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£155	£163	£168	£172	£208	£250	£299
OUTDOOR RETAIL PRICE	£405	£426	£433	£497	£715	£791	£949
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£560	£589	£601	£669	£923	£1,041	£1,248

* Site installation option - power supply to outdoor or indoor

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RBC-IS-IR-WIFI-1	WIFI Controller	Intesis Home WiFi Universal Controller	£220
RBC-RASNC	RAS Network Card (to Central Controller)	Interface to enable U3/U4 connection	£239



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Seiya High-Wall Mounted Inverter Heat Pump

CODE			15	20	25	33	
Performance							
Indoor Unit		RAS-	B05J2KVG-E	B07J2KVG-E	B10J2KVG-E	B13J2KVG-E	
Outdoor Unit		RAS-	05J2AVG-E	07J2AVG-E	10J2AVG-E	13J2AVG-E	
Nominal	Cooling Capacity	kW	1.5	2.0	2.5	3.3	
	Heating Capacity	kW	2.0	2.5	3.2	3.6	
	EER/COP	W/W	4.05/4.26	3.77/3.91	3.25/3.72	3.00/3.91	
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	
	Heating	kW	1.18	1.60	2.03	2.20	
Cooling EN14825	Range Min. - Max.	kW	0.75 - 2.00	0.76 - 2.60	0.80 - 3.00	1.00 - 3.60	
	Power Input	kW	0.37	0.53	0.77	1.10	
	Pdesign	kW	1.5	2	2.5	3.3	
SEER/Energy Efficiency Class			6.10/A++	6.10/A++	6.10/A++	6.10/A++	
Seasonal Energy Consumption		kWh/a	86	115	143	189	
Heating EN14825	Range Min. - Max.	kW	0.90 - 3.00	0.92 - 3.30	1.00 - 3.90	1.10 - 4.50	
	Power Input	kW	0.47	0.64	0.86	0.92	
	Pdesign	kW	1.6	2.0	2.4	2.8	
	SCOP/Energy Efficiency Class			4.00/A+	4.00/A+	4.00/A+	
	Seasonal Energy Consumption		kWh/a	560	699	839	980
Indoor Data							
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73	
	High - Low	m³/h	522 - 234	534 - 234	552 - 240	618 - 264	
Sound	Pressure High - Low	dB(A)	37 - 19	38 - 20	39 - 21	42 - 21	
	Power High - Low	dB(A)	52 - 34	53 - 35	54 - 36	56 - 36	
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	
	Weight	kg	9	9	9	9	
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	
Remote controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	
Outdoor Data							
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	
Air Flow	High	m³/h - l/s	1800 - 500	1800 - 500	1800 - 500	1980 - 550	
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	48/50	48/50	
	Power High Cooling/Heating	dB(A)	61/63	61/63	63/65	63/65	
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	
	Weight	kg	22	22	23	24	
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	
	Min.-Max. Length	m	2-15	2-15	2-15	2-15	
	Maximum Height Difference	m	±12	±12	±12	±12	
	Drain Port Connection	mm	16	16	16	16	
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.4/15	0.4/15	0.43/15	0.46/15	
	Additional Charge	g/m	0	0	0	0	
Run Current	Maximum	A	2.40	3.25	4.20	5.50	
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	
INDOOR RETAIL PRICE			£170	£179	£183	£188	
OUTDOOR RETAIL PRICE			£412	£434	£443	£507	
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£582	£613	£626	£695	
Accessories							
RB-RXS30-E	Remote Controller Built-In Timer		Weekly-timer, single combination				£59
RB-N101S-G	WIFI Controller		WiFi adapter				£103
RB-N102S-G	WIFI Controller		WiFi adapter and cable				£108



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Seiya High-Wall Mounted Inverter Heat Pump (continued)

CODE			42	50	65
Performance					
Indoor Unit		RAS-	B16J2KVG-E	18J2KVG-E	24J2KVG-E
Outdoor Unit		RAS-	16J2AVG-E	18J2AVG-E	24J2AVG-E
Nominal	Cooling Capacity	kW	4.2	5.0	6.5
	Heating Capacity	kW	5.0	5.4	7.0
	EER/COP	W/W	3.00/3.57	3.23/3.38	2.89/3.33
UK	Cooling Total/Sensible	kW	4.49/3.36	4.88/3.57	6.35/4.40
	Heating	kW	3.33	3.34	4.31
Cooling EN14825	Range Min. - Max.	kW	1.20 - 4.7	1.3 - 5.5	1.6 - 7.2
	Power Input	kW	1.40	1.55	2.25
	Pdesign	kW	4.2	5.0	6.5
	SEER/Energy Efficiency Class		6.10/A++	6.30/A++	6.10/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	241	278	373
	Range Min. - Max.	kW	1.30 - 6.00	1.0 - 6.0	1.6 - 8.1
	Power Input	kW	1.40	1.60	2.10
	Pdesign	kW	3.6	3.8	5.4
	SCOP/Energy Efficiency Class		4.00/A+	4.00/A+	4.00/A+
	Seasonal Energy Consumption	kWh/a	1259	1329	1890
Indoor Data					
Air Flow	High - Low	l/s	213 - 92	233 - 133	298 - 185
	High - Low	m³/h	768 - 330	840 - 480	1074 - 666
Sound	Pressure High - Low	dB(A)	43 - 22	48 - 32	48 - 35
	Power High - Low	dB(A)	58 - 37	63 - 47	63 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320x1050x250
	Weight	kg	10	9	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)
Outdoor Data					
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2160 - 600	2160 - 600	2220 - 617
Sound	Pressure High Cooling/Heating	dB(A)	49/51	50/52	55/55
	Power High Cooling/Heating	dB(A)	64/66	65/67	70/70
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	30	34	38
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.62/15	0.88/15	1.08/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	7.19	7.50	10.55
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply*	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16
INDOOR RETAIL PRICE			£245	£294	£353
OUTDOOR RETAIL PRICE			£719	£858	£1,034
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£964	£1,152	£1,387

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WIFI Controller	WiFi adapter	£103
RB-N102S-G	WIFI Controller	WiFi adapter and cable	£108



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Shorai High-Wall Mounted Inverter Heat Pump

CODE			25	35	46	50	61	70
Performance								
Indoor Unit		RAS-	B10PKVSG-E	B13PKVSG-E	B16PKVSG-E	18PKVSG-E	B22PKVSG-E	B24PKVSG-E
Outdoor Unit		RAS-	10PAVSG-E	13PAVSG-E	16PAVSG-E	18PAVSG-E	22PAVSG-E	24PAVSG-E
Nominal	Cooling Capacity	kW	2.5	3.5	4.6	5.0	6.1	7.0
	Heating Capacity	kW	3.2	4.2	5.5	6.0	7.0	8.0
	EER/COP	W/W	4.17/4.27	3.33/3.89	3.29/3.62	3.52/3.75	3.07/3.61	3.11/3.32
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56	4.88/3.57	5.96/4.24	6.84/4.71
	Heating	kW	2.05	2.61	3.59	3.83	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	0.75 - 3.2	0.8 - 4.1	1.2 - 5.3	1.2 - 6.0	1.3 - 6.7	1.5 - 7.7
	Power Input	kW	0.6	1.05	1.4	1.42	1.99	2.25
	Pdesign	kW	2.5	3.5	4.6	5.0	6.1	7.0
Heating EN14825	SEER/Energy Efficiency Class		6.90/A++	6.50/A++	6.50/A++	7.30/A++	6.80/A++	6.25/A++
	Seasonal Energy Consumption	kWh/a	127	189	248	240	314	392
	Range Min. - Max.	kW	0.9 - 4.8	0.9 - 5.3	0.9 - 6.5	0.8 - 6.5	0.9 - 7.5	1.6 - 8.8
	Power Input	kW	0.75	1.08	1.52	1.60	1.94	2.41
	Pdesign	kW	2.5	3.2	4.0	4.3	4.7	6.3
	SCOP/Energy Efficiency Class		4.60/A++	4.60/A++	4.20/A+	4.40/A+	4.40/A+	4.00/A+
Seasonal Energy Consumption		kWh/a	761	974	1335	1368	1495	2166

Indoor Data		RAS-	B10PKVSG-E	B13PKVSG-E	B16PKVSG-E	18PKVSG-E	B22PKVSG-E	B24PKVSG-E
Air Flow	High - Low	l/s	167 - 67	176 - 83	213 - 92	264 - 139	273 - 168	313 - 184
	High - Low	m³/h	600 - 240	636 - 300	768 - 330	950 - 499	984 - 606	1128 - 664
Sound	Pressure High - Low	dB(A)	39 - 23	39 - 23	43 - 25	44 - 26	46 - 27	48 - 28
	Power High - Low	dB(A)	54 - 39	54 - 39	58 - 41	59 - 46	61 - 49	63 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	9	10	10	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-TA17NE (Infra-Red)	WH-TA17NE (Infra-Red)	WH-TA17NE (Infra-Red)	WH-TC09NE (Infra-Red)	WH-TC09NE (Infra-Red)	WH-TC09NE (Infra-Red)

Outdoor Data		RAS-	10PAVSG-E	13PAVSG-E	16PAVSG-E	18PAVSG-E	22PAVSG-E	24PAVSG-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1668 - 463	1980 - 550	2160 - 600	2076 - 576	2184 - 607	2916 - 810
Sound	Pressure High Cooling/Heating	dB(A)	46/47	48/50	49/52	49/50	53/52	53/53
	Power High Cooling/Heating	dB(A)	61/62	63/65	64/67	64/65	68/67	68/68
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
	Weight	kg	28	28	34	34	34	43
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20	2-20	2-20	2-25
	Maximum Height Difference	m	±12	±12	±12	±12	±12	±15
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.51/15	0.67/15	0.8/15	1.1/15	1.1/15	1.14/15
	Additional Charge	g/m	20	20	20	20	20	20
Run Current	Maximum	A	3.97	5.22	7.10	8.05	9.30	11.30
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£273	£289	£320	£374	£376	£432
OUTDOOR RETAIL PRICE	£556	£685	£829	£855	£989	£1,135
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£829	£974	£1,149	£1,229	£1,365	£1,567

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WIFI Controller	WiFi adapter	£103
RB-N102S-G	WIFI Controller	WiFi adapter and cable	£108



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Anti-dust pre-filter



Toshiba IAQ filter



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Plasma air purifier (Ag+)



Ionizer



Daiseikai High-Wall Mounted Inverter Heat Pump

CODE			25	35	45
Performance					
Indoor Unit		RAS-	10PKVPG-E	13PKVPG-E	16PKVPG-E
Outdoor Unit		RAS-	10PAVPG-E	13PAVPG-E	16PAVPG-E
Nominal	Cooling Capacity	kW	2.5	3.5	4.5
	Heating Capacity	kW	3.2	4.0	4.5
	EER/COP	W/W	5.56/5.33	4.67/5.00	4.17/4.01
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.40/3.56
	Heating	kW	1.90	2.51	3.43
Cooling EN14825	Range Min. - Max.	kW	0.80 - 3.50	0.90 - 4.10	0.90 - 5.10
	Power Input	kW	0.45	0.75	1.08
	Pdesign	kW	2.5	3.5	4.5
	SEER/Energy Efficiency Class		10.60/A+++	9.50/A+++	8.50/A+++
Heating EN14825	Seasonal Energy Consumption	kWh/a	83	129	185
	Range Min. - Max.	kW	0.70 - 5.80	0.80 - 6.30	0.80 - 6.80
	Power Input	kW	0.60	.80	1.37
	Pdesign	kW	3.0	3.6	4.5
SCOP/Energy Efficiency Class			5.20/A+++	5.10/A+++	4.60/A++
Seasonal Energy Consumption		kWh/a	807	988	1369
Indoor Data					
Air Flow	High - Low	l/s	200 - 83	200 - 83	206 - 86
	High - Low	m³/h	720 - 300	720 - 300	740 - 310
Sound	Pressure High - Low	dB(A)	44 - 20	45 - 20	46 - 22
	Power High - Low	dB(A)	58 - 35	60 - 35	60 - 37
Unit	Height x Width x Depth	mm	293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
	Weight	kg	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-TA01LE (Infra-Red)	WH-TA01LE (Infra-Red)	WH-TA01LE (Infra-Red)
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15to24
Air Flow	High	m³/h - l/s	2160 - 600	2160 - 600	2160 - 600
Sound	Pressure High Cooling/Heating	dB(A)	46/47	48/50	49/50
	Power High Cooling/Heating	dB(A)	61/62	63/65	64/65
Unit	Height x Width x Depth	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
	Weight	kg	38	38	38
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-25	2-25	2-25
	Maximum Height Difference	m	±10	±10	±10
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	1.0/15	1.0/15	1.0/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	3.40	4.01	6.44
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
INDOOR RETAIL PRICE			£428	£439	£459
OUTDOOR RETAIL PRICE			£946	£1,004	£1,286
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,374	£1,443	£1,745

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WIFI Controller	WiFi adapter	£103



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Anti-dust pre-filter



Toshiba IAQ filter



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Plasma air purifier (Ag+)



Ionizer



Bi-Flow Console Inverter Heat Pump

CODE		25		35		50		
Performance								
Indoor Unit		RAS-	B10U2FVG-E		B13U2FVG-E		B18U2FVG-E	
Outdoor Unit		RAS-	10PAVSG-E		13PAVSG-E		18PAVSG-E	
Nominal	Cooling Capacity	kW	2.5		3.5		5.0	
	Heating Capacity	kW	3.2		4.2		6.0	
	EER/COP	W/W	4.17/3.72		3.18/3.36		2.86/3.00	
UK	Cooling Total/Sensible	kW	2.44/2.03		3.42/2.74		4.40/3.56	
	Heating	kW	1.90		2.51		3.43	
Cooling EN14825	Range Min. - Max.	kW	0.8 - 3.2		0.7 - 4.1		1.0 - 5.6	
	Power Input	kW	0.60		1.10		1.75	
	Pdesign	kW	2.5		3.5		5.0	
	SEER/Energy Efficiency Class		6.60/A++		6.40/A++		6.20/A++	
	Seasonal Energy Consumption	kWh/a	133		191		282	
Heating EN14825	Range Min. - Max.	kW	0.9 - 4.5		1.0 - 5.2		1.1 - 6.3	
	Power Input	kW	0.86		1.25		2.00	
	Pdesign	kW	2.5		3.0		4.0	
	SCOP/Energy Efficiency Class		4.20/A+		4.20/A+		4.00/A+	
	Seasonal Energy Consumption	kWh/a	833		999		1399	

Indoor Data		RAS-	B10U2FVG-E	B13U2FVG-E	B18U2FVG-E
Air Flow	High - Low	l/s	142 - 72	153 - 75	178 - 102
	High - Low	m³/h	510 - 258	552 - 270	642 - 366
Sound	Pressure High - Low	dB(A)	39 - 23	40 - 24	46 - 31
	Power High - Low	dB(A)	54 - 38	55 - 39	60 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	16	16	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote controller			WH-L16SE (Infra-Red)	WH-L16SE (Infra-Red)	WH-L16SE (Infra-Red)

Outdoor Data		RAS-	10PAVSG-E	13PAVSG-E	18PAVSG-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1668 - 463	1980 - 550	2076 - 576
Sound	Pressure High Cooling/Heating	dB(A)	46/47	48/50	49/50
	Power High Cooling/Heating	dB(A)	61/62	63/65	64/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	28	28	34
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±10	±10	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.51/15	0.67/15	1.1/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	3.97	5.22	8.05
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16

INDOOR RETAIL PRICE	£600	£654	£724
OUTDOOR RETAIL PRICE	£556	£685	£855
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£1,156	£1,339	£1,579

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WiFi Controller	WiFi adapter	£103
RB-N102S-G	WiFi Controller	WiFi adapter and cable	£108



Floor-mounted bi-flow



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Anti-dust pre-filter



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Toshiba IAQ filter



Multi-Split Outdoor Units

CODE		30	40	50	50
Performance					
Outdoor Unit	RAS-	2M10U2AVG-E	2M14U2AVG-E	2M18U2AVG-E	3M18U2AVG-E
Capacity Code	Min.-Max.	10-20	10-26	10-32	10-36
Indoor Units Connected	Min.-Max.	2-2	2-2	2-2	2-3
Nominal	Cooling Capacity	kW	3.3	4.0	5.2
	Heating Capacity	kW	4.0	4.4	5.6
	EER/COP	W/W	4.35/4.94	4.35/4.94	3.88/4.71
					4.44/4.30
Cooling EN14825	Range Min. - Max.	kW	1.0-3.9	1.6 - 4.9	1.7 - 6.2
	Power Input	kW	0.76	0.92	1.34
	Pdesign	kW	3.3	4.0	5.2
	SEER/Energy Efficiency Class		6.73/A++	6.73/A++	6.98/A++
	Seasonal Energy Consumption	kWh/a	172	208	261
Heating EN14825	Range Min. - Max.	kW	1.0-4.9	1.30 - 5.20	1.30 - 7.50
	Power Input	kW	0.81	0.89	1.19
	Pdesign	kW	2.7	3.1	3.2
	SCOP/Energy Efficiency Class		4.60/A++	4.60/A++	4.63/A++
	Seasonal Energy Consumption	kWh/a	822	943	967
Outdoor Data					
Operating Range	Cooling/Heating	°C	-10 to 46/-20 to 24	-10 to 46/-20 to 24	-10 to 46/-20 to 24
Air Flow	High	m³/h - l/s	1863 - 517	1863 - 517	2107 - 585
Sound	Pressure High	dB(A)	46	46	50
	Power High	dB(A)	59	59	63
Unit	Height x Width x Depth	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
	Weight	kg	38	43	45
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 x 2 - 1/4 x 2	3/8 x 2 - 1/4 x 2	3/8 x 2 - 1/4 x 2
	Min.-Max. Length	m	2-20	2-30	2-30
	Maximum Pipe Length Per Unit	m	15	20	20
	Maximum Height Difference	m	10	10	10
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.85/20	1.02/30	1.02/30
	Additional Charge	g/m	0	0	0
Run Current	Maximum	A	4.17	4.87	6.96
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
OUTDOOR RETAIL PRICE		£846	£882	£969	£1,370



Multi-Split Outdoor Units (continued)

CODE			75	80	100
Performance					
Outdoor Unit	RAS-		3M26U2AVG-E	4M27U2AVG-E	5M34U2AVG-E
Capacity Code	Min.-Max.		10-54	10-54	10-68
Indoor Units Connected	Min.-Max.		2-3	2-4	2-5
Nominal	Cooling Capacity	kW	7.5	8.0	10.0
	Heating Capacity	kW	9.0	9.0	12.0
	EER/COP	W/W	3.75/4.09	3.5/4.67	3.36/4.24
	Range Min. - Max.	kW	4.1 - 9.0	4.2 - 9.3	3.7 - 11.0
Cooling EN14825	Power Input	kW	2	2.29	2.98
	Pdesign	kW	7.5	8.0	10.0
	SEER/Energy Efficiency Class		6.19/A++	6.11/A++	6.31/A++
	Seasonal Energy Consumption	kWh/a	-*	-*	-*
Heating EN14825	Range Min. - Max.	kW	2.0 - 11.2	2.9 - 11.7	2.7 - 14.0
	Power Input	kW	2.20	1.93	2.83
	Pdesign	kW	5.2	5.2	6.8
	SCOP/Energy Efficiency Class		4.44/A++	4.26/A++	4.08/A+
	Seasonal Energy Consumption	kWh/a	-*	-*	-*
Outdoor Data					
Outdoor Unit	RAS-		3M26U2AVG-E	4M27U2AVG-E	5M34U2AVG-E
Operating Range	Cooling/Heating	°C	-10 to 46/-15 to 24	-10 to 46/-15 to 24	-10 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2508 - 696	2508 - 696	3666 - 1018
Sound	Pressure High	dB(A)	49	49	55
	Power High	dB(A)	64	64	68
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	72	72	78
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 x 1 + 1/2 x 2 - 1/4 x 3	3/8 x 2 + 1/2 x 2 - 1/4 x 4	3/8 x 3 + 1/2 x 2 - 1/4 x 5
	Min.-Max. Length	m	3-70	3-70	3-80
	Maximum Pipe Length Per Unit	m	25	25	25
	Maximum Height Difference	m	15	15	15
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	1.92/40	1.92/40	2.39/40
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	11.67	13.09	13.64
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20
* Waiting for published data.					
OUTDOOR RETAIL PRICE			£1,630	£1,984	£2,255



Multi-Split Mirai High-Wall Indoor Unit

CODE			15	20	27	37	45
Performance							
Indoor Unit		RAS-	B05BKVG-E	B07BKVG-E	B10BKVG-E	B13BKVG-E	B16BKVG-E
Capacity Code			5	7	10	13	16
Nominal	Cooling Capacity	kW	1.5	2.0	2.7	3.7	4.5
	Heating Capacity	kW	2.0	2.7	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36
	Heating	kW	1.18	1.60	2.03	2.20	3.33
Cooling EN14825	Range Min. - Max.	kW	1.1 - 1.8	1.2 - 2.5	1.3 - 3.2	1.3 - 4.1	1.5 - 5.3
	Power Input	kW	0.029	0.031	0.033	0.034	0.045
Heating EN14825	Range Min. - Max.	kW	0.9 - 2.5	0.9 - 3.4	0.9 - 4.8	1.0 - 5.3	1.1 - 6.5
	Power Input	kW	0.040	0.040	0.031	0.035	0.031
Indoor Data							
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73	213 - 92
	High - Low	m³/h	522 - 234	534 - 234	552 - 240	618 - 264	768 - 330
Sound	Pressure High - Low	dB(A)	37 - 22	38 - 23	39 - 24	42 - 24	43 - 25
	Power High - Low	dB(A)	52 - 37	53 - 38	54 - 39	56 - 39	58 - 40
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	9	9	9	9	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)	WH-UA01NE (Infra-Red)
INDOOR RETAIL PRICE			£155	£163	£168	£172	£208



Multi-Split Seiya High-Wall Indoor Unit

CODE			15	20	27	37	45
Performance							
Indoor Unit		RAS-	B05J2KVG-E	B07J2KVG-E	B10J2KVG-E	B13J2KVG-E	B16J2KVG-E
Capacity Code			5	7	10	13	16
Nominal	Cooling Capacity	kW	1.5	2.0	2.7	3.7	4.5
	Heating Capacity	kW	2.0	2.7	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36
	Heating	kW	1.18	1.60	2.03	2.20	3.33
Cooling EN14825	Range Min. - Max.	kW	1.1 - 1.8	1.2 - 2.5	1.3 - 3.2	1.3 - 4.1	1.5 - 5.3
	Power Input	kW	0.029	0.031	0.033	0.034	0.045
Heating EN14825	Range Min. - Max.	kW	0.9 - 2.5	0.9 - 3.4	0.9 - 4.8	1.0 - 5.3	1.1 - 6.5
	Power Input	kW	0.040	0.040	0.031	0.035	0.031
Indoor Data							
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73	213 - 97
	High - Low	m³/h	522 - 65	534 - 65	552 - 67	618 - 73	768 - 92
Sound	Pressure High - Low	dB(A)	37 - 22	38 - 23	39 - 24	42 - 24	43 - 25
	Power High - Low	dB(A)	52 - 37	53 - 38	54 - 39	57 - 39	58 - 40
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	9	9	9	9	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)
INDOOR RETAIL PRICE			£170	£179	£183	£188	£245

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WiFi Controller	WiFi adapter	£103
RB-N102S-G	WiFi Controller	WiFi adapter and cable	£108



Multi-Split Shorai High-Wall Indoor Unit

CODE			27	37	45	60	71
Performance							
Indoor Unit		RAS-	B10PKVSG-E	B13PKVSG-E	B16PKVSG-E	B22PKVSG-E	B24PKVSG-E
Capacity Code			10	13	16	22	24
Nominal	Cooling Capacity	kW	2.7	3.7	4.5	6.0	7.1
	Heating Capacity	kW	4.0	5.0	5.5	7.0	8.1
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56	5.96/4.24	6.84/4.71
	Heating	kW	2.05	2.61	3.53	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	1.3 - 3.2	1.3 - 4.1	1.5 - 5.3	2.4 - 6.7	2.4 - 7.7
	Power Input	kW	0.035	0.035	0.030	0.040	0.043
Heating EN14825	Range Min. - Max.	kW	0.9 - 4.8	1.0 - 5.3	1.1 - 6.5	1.8 - 7.5	1.8 - 8.8
	Power Input	kW	0.040	0.040	0.035	0.040	0.043
Indoor Data		RAS-	B10PKVSG-E	B13PKVSG-E	B16PKVSG-E	B22PKVSG-E	B24PKVSG-E
Air Flow	High - Low	l/s	167 - 67	176 - 83	213 - 92	273 - 168	313 - 184
	High - Low	m³/h	600 - 240	636 - 300	768 - 330	984 - 606	1128 - 664
Sound	Pressure High - Low	dB(A)	39 - 24	39 - 24	43 - 26	46 - 34	48 - 35
	Power High - Low	dB(A)	54 - 39	54 - 39	58 - 41	61 - 51	63 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	9	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-TA17NE	WH-TA17NE	WH-TA17NE	WH-TC09NE	WH-TC09NE
INDOOR RETAIL PRICE			£273	£289	£320	£376	£432

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WIFI Controller	WiFi adapter	£103
RB-N102S-G	WIFI Controller	WiFi adapter and cable	£108



Multi-Split Cassette Indoor Unit

CODE			27	37	45
Performance					
Indoor Unit		RAS-	M10U2MUVG-E	M13U2MUVG-E	M16U2MUVG-E
Capacity Code			10	13	16
Nominal	Cooling Capacity	kW	2.7	3.7	4.5
	Heating Capacity	kW	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56
	Heating	kW	2.05	2.61	3.53
Cooling EN14825	Range Min. - Max.	kW	1.3 - 3.2	1.3 - 4.1	1.5 - 5.3
	Power Input	kW	0.023	0.023	0.023
Heating EN14825	Range Min. - Max.	kW	0.9 - 4.8	1.0 - 5.3	1.1 - 6.5
	Power Input	kW	0.023	0.023	0.023
Indoor Data					
Air Flow	High - Low	l/s	164 - 119	172 - 119	189 - 125
	High - Low	m³/h	590 - 430	620 - 430	680 - 450
Sound	Pressure High - Low	dB(A)	37 - 30	38 - 30	40 - 31
	Power High - Low	dB(A)	52 - 45	53 - 45	55 - 46
Unit	Height x Width x Depth	mm	268 x 575 x 575	268 x 575 x 575	268 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	27 x 700 x 700	27 x 700 x 700	27 x 700 x 700
	Weight	kg	3	3	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25
INDOOR RETAIL PRICE			£977	£1,051	£1,106

Accessories

RB-RXS31-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RBC-AX32UM(W)-E	Remote Controller Built-In Timer	Infra-red IMS combination	£118
RB-RWS21E	Remote Controller	Hard-wired remote controller RAS cassette and ducted	£168
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£76
RBC-IS-IR-WIFI-1	WIFI Controller	IntesisHome Wi-Fi Universal Controller	£220



Multi-Split Ducted Indoor Unit

CODE			20	27	37	45	60	71
Performance								
Indoor Unit		RAS-	M07U2DVG-E	M10U2DVG-E	M13U2DVG-E	M16U2DVG-E	M22U2DVG-E	M24U2DVG-E
Capacity Code			7	10	13	16	22	24
Nominal	Cooling Capacity	kW	2.0	2.7	3.7	4.5	6.0	7.1
	Heating Capacity	kW	2.7	4.0	5.0	5.5	7.0	8.1
UK	Cooling Total/Sensible	kW	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36	5.96/4.24	6.84/4.71
	Heating	kW	1.60	2.03	2.20	3.33	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	1.2 - 2.5	1.3 - 3.2	1.3 - 4.1	1.5 - 5.3	2.4 - 6.7	2.4 - 7.7
	Power Input	kW	0.048	0.048	0.054	0.062	0.069	0.076
Heating EN14825	Range Min. - Max.	kW	0.9 - 3.4	0.9 - 4.8	1.0 - 5.3	1.1 - 6.5	1.8 - 7.5	1.8 - 8.8
	Power Input	kW	0.048	0.048	0.054	0.062	0.069	0.076
Indoor Data		RAS-	M07U2DVG-E	M10U2DVG-E	M13U2DVG-E	M16U2DVG-E	M22U2DVG-E	M24U2DVG-E
Air Flow	High - Low	l/s	158 - 106	158 - 106	169 - 107	217 - 117	278 - 206	294 - 211
	High - Low	m³/h	570 - 380	570 - 380	610 - 385	780 - 420	1000 - 740	1060 - 760
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27	35 - 27	37 - 27	35 - 25	38 - 32	39 - 33
	High - Low (under inlet)	dB(A)	44 - 30	44 - 30	46 - 30	44 - 27	45 - 37	46 - 38
Sound Power	High - Low	dB(A)	50 - 42	50 - 42	52 - 42	50 - 40	53 - 47	54 - 48
	High - Low (under inlet)	dB(A)	59 - 45	59 - 45	61 - 45	59 - 42	60 - 52	61 - 53
Unit	Height x Width x Depth	mm	210 × 700 × 450	210 × 700 × 450	210 × 700 × 450	210 × 900 × 450	210 × 1100 × 450	210 × 1100 × 450
	Weight	kg	16	16	16	19	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
Remote Controller			WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)
INDOOR RETAIL PRICE			£660	£669	£677	£722	£844	£873

Accessories

RB-RWS21E	Remote Controller	Hard-wired remote controller RAS cassette and ducted	£168
-----------	-------------------	--	-------------

Bi-flow



Multi-Split Bi-Flow Console Indoor Unit

CODE			27	37	45
Performance					
Indoor Unit		RAS-	B10U2FVG-E	B13U2FVG-E	B18U2FVG-E
Capacity Code			10	13	18
Nominal	Cooling Capacity	kW	2.7	3.7	5.0
	Heating Capacity	kW	4.0	5.0	6.0
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	-*
	Heating	kW	2.05	2.61	-*
Cooling EN14825	Range Min. - Max.	kW	1.3 - 3.2	1.3 - 4.1	1.4 - 5.7
	Power Input	kW	0.025	0.030	0.045
Heating EN14825	Range Min. - Max.	kW	0.9 - 4.8	1.0 - 5.3	0.8 - 6.3
	Power Input	kW	0.025	0.030	0.045
Indoor Data		RAS-	B10UFVG-E	B13UFVG-E	B18UFVG-E
Air Flow	High - Low	l/s	142 - 72	153 - 75	178 - 02
	High - Low	m³/h	510 - 258	552 - 270	642 - 366
Sound	Pressure High - Low	dB(A)	39 - 23	40 - 24	46 - 31
	Power High - Low	dB(A)	54 - 38	55 - 39	60 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	13	13	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-L16SE (Infra-Red)	WH-L16SE (Infra-Red)	WH-L16SE (Infra-Red)
* Waiting for published data.					
INDOOR RETAIL PRICE			£600	£654	£724

Accessories

RB-RXS30-E	Remote Controller Built-In Timer	Weekly-timer, single combination	£59
RB-N101S-G	WiFi Controller	WiFi adapter	£103
RB-N102S-G	WiFi Controller	WiFi adapter and cable	£108

RAV Overviews

DIGITAL INVERTER

SUPER
DIGITAL INVERTER



Split System Overview

Nominal Cooling Capacity			kW	2.5	3.5	5.3
Nominal Heating Capacity			kW	3.2	4.2	5.6
			hp	1	1.5	2
Wall-Mounted		RAV Digital Inverter Full Spec Page 46	1 phase	£894 RM301KRTP-E/GM301ATP-E	£1,038 RM401KRTP-E/GM401ATP-E	£1,290 RM561KRTP-E/GM561ATP-E
		RAV Super Digital Inverter Full Spec Page 89	1 phase			£1,572 RM561KRTP-E/GP561ATP-E
Smart Cassette		RAV Super Digital Inverter Full Spec Page 90	1 phase			£2,218 GM561UT-E/GP561ATP-E
Compact Cassettes		RAV Digital Inverter Full Spec Page 47	1 phase	£1,534 RM301MUT-E/GM301ATP-E	£1,662 RM401MUT-E/GM401ATP-E	£1,840 RM561MUT-E/GM561ATP-E
		RAV Super Digital Inverter Full Spec Page 91	1 phase			£2,122 RM561MUT-E/GP561ATP-E
4-Way Cassettes		RAV Digital Inverter Full Spec Page 48	1 phase			£1,743 RM561UTP-E/GM561ATP-E
			3 phase			
		RAV Super Digital Inverter Full Spec Page 92	1 phase			£2,025 RM561UTP-E/GP561ATP-E
			3 phase			
Slim Ducted		RAV Digital Inverter Full Spec Page 54	1 phase	£1,264 RM301SDT-E/GM301ATP-E	£1,394 RM401SDT-E/GM401ATP-E	£1,562 RM561SDT-E/GM561ATP-E
		RAV Super Digital Inverter Full Spec Page 98	1 phase			£1,844 RM561SDT-E/GP561ATP-E
Standard Ducted		RAV Digital Inverter Full Spec Page 52	1 phase			£1,499 RM561BTP-E/GM561ATP-E
			3 phase			
		RAV Super Digital Inverter Full Spec Page 96	1 phase			£1,781 RM561BTP-E/GP561ATP-E
			3 phase			
High-Static Ducted		RAV Digital Inverter Full Spec Page 55	3 phase			
Ceiling-Suspended		RAV Digital Inverter Full Spec Page 50	1 phase		£1,357 RM401CTP-E/GM401ATP-E	£1,567 RM561CTP-E/GM561ATP-E
			3 phase			
		RAV Super Digital Inverter Full Spec Page 94	1 phase			£1,849 RM561CTP-E/GP561ATP-E
			3 phase			
Floor-Mounted + RBC-CK2		RAV Digital Inverter Full Spec Page 56	1 phase			
		RAV Super Digital Inverter Full Spec Page 99	3 phase			

DIGITAL INVERTER

S U P E R
DIGITAL INVERTER



Split System Overview (continued)

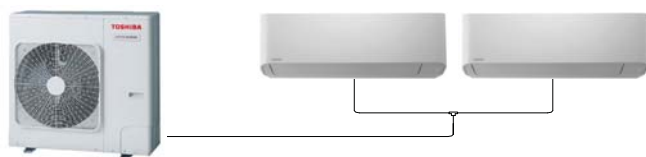
7	10	12.5	14	20	23
8	11.2	14	16	22.4	28
3	4	5	6	8	10
£1,614 RM801KRTP-E/GM801ATP-E					
£2,329 RM801KRTP-E/GP801AT-E					
£3,124 GM801UT-E/GP801AT-E	£3,609 GM1101UT-E/GP1101AT-E	£3,870 GM1401UT-E/GP1401AT-E			
£2,129 RM801UTP-E/GM801ATP-E	£2,647 RM1101UTP-E/GM1101ATP-E	£2,788 RM1401UTP-E/GM1401ATP-E	£4,087 SM1604UTP-E/SM1603AT-E1		
	£2,811 RM1101UTP-E/GM1101AT8P-E	£2,954 RM1401UTP-E/GM1401AT8P-E			
£2,844 RM801UTP-E/GP801AT-E	£3,388 RM1101UTP-E/GP1101AT-E	£3,655 RM1401UTP-E/GP1401AT-E			
	£3,802 RM1101UTP-E/SP1104AT8-E1	£3,944 RM1401UTP-E/SP1404AT8-E1	£4,231 SM1604UTP-E/SP1604AT8-E1		
£2,040 RM801BTP-E/GM801ATP-E	£2,593 RM1101BTP-E/GM1101ATP-E	£2,811 RM1401BTP-E/GM1401ATP-E			
	£2,757 RM1101BTP-E/GM1101AT8P-E	£2,977 RM1401BTP-E/GM1401AT8P-E	£3,948 SM1606BTP-E1/SM1603AT-E1		
£2,755 RM801BTP-E/GP801AT-E	£3,334 RM1101BTP-E/GP1101AT-E	£3,678 RM1401BTP-E/GP1401AT-E			
	£3,748 RM1101BTP-E/SP1104AT8-E1	£3,967 RM1401BTP-E/SP1404AT8-E1	£4,315 SM1606BTP-E1/SP1604AT8-E1		
				£7,394 SM2244DTP-E/SM2246AT8-E	£7,566 SM2804DTP-E/SM2806AT8-E
£1,976 RM801CTP-E/GM801ATP-E	£2,481 RM1101CTP-E/GM1101ATP-E	£2,805 RM1401CTP-E/GM1401ATP-E	£3,386 SM1608CTP-E/SM1603AT-E1		
	£2,645 RM1101CTP-E/GM1101AT8P-E	£2,971 RM1401CTP-E/GM1401AT8P-E			
£2,691 RM801CTP-E/GP801AT-E	£3,222 RM1101CTP-E/GP1101AT-E	£3,672 RM1401CTP-E/GP1401AT-E			
	£3,636 RM1101CTP-E/SP1104AT8-E1	£3,961 RM1401CTP-E/SP1404AT8-E1	£4,221 SM1608CTP-E/SP1604AT8-E1		
			£4,655 MMF-AP0566H1-E/ SM1603AT-E1		
	£4,582 MMF-AP0366H1-E/ SP1104AT8-E1	£4,774 MMF-AP0486H1-E/ SP1404AT8-E1	£5,022 MMF-AP0566H1-E/ SP1604AT8-E1		

TOSHIBA

DIGITAL INVERTER

SUPER
DIGITAL INVERTER

Twin-Split System Overview



Nominal Cooling Capacity	kW	5.3	7.0	10.0	12.5	14.0	20.0	23.0
Nominal Heating Capacity	kW	5.6	8.0	11.2	14.0	16.0	22.4	28.0
	hp	2	3	4	5	6	8	10

Outdoor Units	Digital Inverter Full Spec Page 57-67	1 phase	RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-SM1603AT-E1	
	Digital Inverter Full Spec Page 57-67	3 phase			RAV-GM1101AT8P-E	RAV-GM1401AT8P-E		RAV-SM2246AT8-E
	Super Digital Inverter Full Spec Page 100-111	1 phase	RAV-GP561ATP-E	RAV-GP801AT-E	RAV-GP1101AT-E	RAV-GP1401AT-E		
	Super Digital Inverter Full Spec Page 100-111	3 phase			RAV-SP1104AT8-E1	RAV-SP1404AT8-E1	RAV-SP1604AT8-E1	

Twin-Split Indoor/Outdoor Combinations		DI 1 phase	£1,530	£1,875	£2,502	£2,676	£3,628		
		DI 3 phase			£2,666	£2,842			
		SDI 1 phase	£1,812	£2,590	£3,243	£3,543			
		SDI 3 phase			£3,657	£3,832			
	High-Wall		2 x RAV-RM301KRTP-E	2 x RAV-RM401KRTP-E	2 x RAV-RM561KRTP-E	2 x RAV-RM801KRTP-E	2 x RAV-RM801KRTP-E		
		DI 1 phase							
		DI 3 phase			£4,363	£4,961			
		SDI 1 phase							
		SDI 3 phase							
	Smart Cassette				2 x RAV-RM561UT-E	2 x RAV-RM801UT-E			
		DI 1 phase	£2,692	£3,005	£3,484				
		DI 3 phase			£3,648				
		SDI 1 phase	£2,974	£3,720	£4,225				
		SDI 3 phase			£4,639				
	Compact Cassette		2 x RAV-RM301MUT-E	2 x RAV-RM401MUT-E	2 x RAV-RM561MUT-E				
		DI 1 phase			£3,290	£3,588	£4,540		
		DI 3 phase			£3,454	£3,754		£6,609	£6,681
		SDI 1 phase			£4,031	£4,455			
		SDI 3 phase			£4,445	£4,744	£4,907		
	4-Way Cassette				2 x RAV-RM561UTP-E	2 x RAV-RM801UTP-E	2 x RAV-RM801UTP-E	2 x RAV-RM1101UTP-E	2 x RAV-RM1401UTP-E
		DI 1 phase	£2,152	£2,469	£2,928				
		DI 3 phase			£3,092				
		SDI 1 phase	£2,434	£3,184	£3,669				
		SDI 3 phase			£4,083				
	Slim Ducted		2 x RAV-RM301SDT-E	2 x RAV-RM401SDT-E	2 x RAV-RM561SDT-E				
		DI 1 phase			£2,802	£3,410	£4,362		
		DI 3 phase			£2,966	£3,576		£6,501	£6,727
		SDI 1 phase			£3,543	£4,277			
		SDI 3 phase			£3,957	£4,566	£4,729		
	Ducted				2 x RAV-RM561BTP-E	2 x RAV-RM801BTP-E	2 x RAV-RM801BTP-E	2 x RAV-RM1101BTP-E	2 x RAV-RM1401BTP-E
		DI 1 phase		£2,395	£2,938	£3,282	£4,234		
		DI 3 phase			£3,102	£3,448		£6,277	£6,715
		SDI 1 phase		£3,110	£3,679	£4,149			
		SDI 3 phase			£4,093	£4,438	£4,601		
	Ceiling Suspended			2 x RAV-RM401CTP-E	2 x RAV-RM561CTP-E	2 x RAV-RM801CTP-E	2 x RAV-RM801CTP-E	2 x RAV-RM1101CTP-E	2 x RAV-RM1401CTP-E
		DI 1 phase					£6,078		
		DI 3 phase						£8,169	£8,341
		SDI 1 phase			£6,045	£6,282	£6,282		
		SDI 3 phase			2 x MMF-AP0186H1-E	2 x MMF-AP0246H1-E	2 x MMF-AP0246H1-E	2 x MMF-AP0366H1-E	2 x MMF-AP0486H1-E
	Floor-Mounted + RBC-CK2								
		DI 1 phase							
		DI 3 phase							
		SDI 1 phase							
		SDI 3 phase			£5,019	£5,206	£5,369		
	Concealed-Chassis + RBC-CK1				2 x MML-AP0184BH1-E	2 x MML-AP0244BH1-E	2 x MML-AP0244BH1-E		

The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 241 to page 246. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

DIGITAL INVERTER
**S U P E R
DIGITAL INVERTER**


Triple-Split System Overview



Nominal Cooling Capacity	kW	10.0	12.5	14.0	20.0	23.0
Nominal Heating Capacity	kW	11.2	14.0	16.0	22.4	28.0
	hp	4	5	6	8	10

Outdoor Units	Digital Inverter Full Spec Page 68-76	1 phase	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-SM1603AT-E1	
	Digital Inverter Full Spec Page 68-76	3 phase	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E		RAV-SM2246AT8-E RAV-SM2806AT8-E
	Super Digital Inverter Full Spec Page 112-119	1 phase	RAV-GP1101AT-E	RAV-GP1401AT-E		
	Super Digital Inverter Full Spec Page 112-119	3 phase	RAV-SP1104AT8-E1	RAV-SP1404AT8-E1	RAV-SP1604AT8-E1	

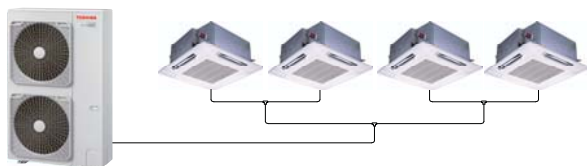
Triple-Split Indoor/Outdoor Combinations	High-Wall	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£2,768 £2,932 £3,509 £3,923 3 x RAV-RM301KRTP-E	£2,957 £3,123 £3,824 £4,113 3 x RAV-RM401KRTP-E	£4,197 £4,564 3 x RAV-RM561KRTP-E	£6,199 3 x RAV-RM801KRTP-E	£6,205 3 x RAV-RM801KRTP-E
	Compact Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£4,511 £4,675 £5,252 £5,666 3 x RAV-RM301MUT-E	£4,652 £4,818 £5,519 £5,808 3 x RAV-RM401MUT-E	£5,670 £6,037 3 x RAV-RM561MUT-E		
	4-Way Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			£5,379 £5,746 3 x RAV-RM561UTP-E	£7,567 3 x RAV-RM801UTP-E	£7,573 3 x RAV-RM801UTP-E
	Slim Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£3,701 £3,865 £4,442 £4,856 3 x RAV-RM301SDT-E	£3,848 £4,014 £4,715 £5,004 3 x RAV-RM401SDT-E	£4,836 £5,203 3 x RAV-RM561SDT-E		
	Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			£4,647 £5,014 3 x RAV-RM561BTP-E	£7,300 3 x RAV-RM801BTP-E	£7,306 3 x RAV-RM801BTP-E
	Ceiling Suspended	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		£3,737 £3,903 £4,604 £4,893 3 x RAV-RM401CTP-E	£4,851 £5,218 3 x RAV-RM561CTP-E	£7,108 3 x RAV-RM801CTP-E	£7,114 3 x RAV-RM801CTP-E
	Floor-Mounted + RBC-CK2	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		£7,731 3 x MMF-AP0156H1-E	£7,779 £8,146 3 x MMF-AP0186H1-E	£9,874 3 x MMF-AP0246H1-E	£9,880 3 x MMF-AP0246H1-E
	Concealed-Chassis + RBC-CK1	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£5,966 3 x MML-AP0094BH1-E	£6,153 3 x MML-AP0124BH1-E	£6,240 £6,607 3 x MML-AP0184BH1-E	£8,260 3 x MML-AP0244BH1-E	

The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 241 to page 246. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

DIGITAL INVERTER

SUPER
DIGITAL INVERTER

Quad-Split System Overview



Nominal Cooling Capacity	kW	12.5	14	20	23
Nominal Heating Capacity	kW	14	16	22.4	28
	hp	5	6	8	10

Outdoor Units	Digital Inverter Full Spec Page 77-84	1 phase	RAV-GM1401ATP-E	RAV-SM1603AT-E1		
	Digital Inverter Full Spec Page 77-84	3 phase	RAV-GM1401AT8P-E		RAV-SM2246AT8-E	RAV-SM2806AT8-E
	Super Digital Inverter Full Spec Page 120-125	1 phase	RAV-GP1401AT-E			
	Super Digital Inverter Full Spec Page 120-125	3 phase	RAV-SP1404AT8-E1	RAV-SP1604AT8-E1		

Quad-Split Indoor/Outdoor Combinations	 High-Wall	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase £2,972 £3,138 £3,839 £4,128 4 x RAV-RM301KRTP-E	£4,032 £4,399 4 x RAV-RM401KRTP-E	£6,319 4 x RAV-RM561KRTP-E	£6,457 4 x RAV-RM801KRTP-E
	 Compact Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase £5,296 £5,462 £6,163 £6,452 4 x RAV-RM301MUT-E	£6,292 £6,659 4 x RAV-RM401MUT-E	£8,283 4 x RAV-RM561MUT-E	
	 4-Way Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		£7,895 4 x RAV-RM561UTP-E	£8,281 4 x RAV-SM804UTP-E
	 Slim Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase £4,216 £4,382 £5,083 £5,372 4 x RAV-RM301SDT-E	£5,220 £5,587 4 x RAV-RM401SDT-E	£7,171 4 x RAV-RM561SDT-E	
	 Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		£6,919 4 x RAV-RM561BTP-E1	£7,925 4 x RAV-RM801BTP-E1
	 Ceiling Suspended	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£5,072 £5,439 4 x RAV-RM401CTP-E	£7,191 4 x RAV-RM561CTP-E	£7,669 4 x RAV-RM801CTP-E
	 Floor-Mounted + RBC-CK2	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£8,856 £9,223 4 x MMF-AP0156H1-E	£11,095 4 x MMF-AP0186H1-E	£11,357 4 x MMF-AP0246H1-E
	 Concealed-Chassis + RBC-CK1	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	£6,752 £7,119 4 x MML-AP0124BH1-E	£9,043 4 x MML-AP0184BH1-E	£9,205 4 x MML-AP0244BH1-E

The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 241 to page 246. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

RAV Digital Inverter and Super Digital Inverter Indoor Units

High-Wall Units

Elegant slim-line design

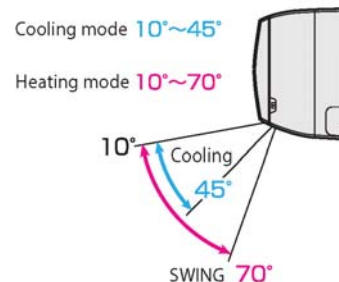
With its attractive, slim-line design, the unit can easily blend in with any room interior. The filtration system enhances indoor air quality for the conditioned space.

Optimum air distribution

70° directional auto-swing louvre mode allows optimum air distribution throughout the room. Total comfort is guaranteed, thanks also to the automatic air volume control and automatic cooling/heating.

Self-cleaning function

Toshiba's self-cleaning function is designed to reduce the humidity that causes mould to form inside an air conditioning unit. 20 minutes of fan operation after shut-down dries the moist air and helps reduce mould formation on heat exchanger coils.



Normal operation

Moisture stays trapped inside



Self-cleaning function

20 minutes of fan operation after shut-down dries moist air and helps reduce mould formation on heat exchanger coils



Compact Cassette Units

The perfect fit for 600 x 600 mm grid system ceilings

This compact unit (575 x 575 mm) fits perfectly into ceilings and matches standard architectural modules, without the need to cut ceiling tiles.

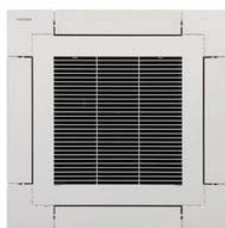
Designed for simple and easy installation and maintenance

The slim flat stylish panel design is only 268 mm in height even when an electrical box is located inside the unit. Easy access to the electrical box is achieved by simply removing the suction grill. Easy installation is also possible using the panel adjust pocket. Use the "adjust pocket" function for fine adjustments after installation.

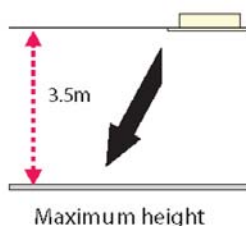
The drain height is 850 mm. Available for ceilings up to 3.5 m in height.



Panel



RBC-UM21PG(W)-E



S U P E R
DIGITAL INVERTER

4-Way Smart Cassette



Efficiency

- A+++ SEER & SCOP
- High-efficiency heat exchanger with magic coil treatment
- DC fan motor with large air opening

Energy savings

- Occupancy sensor to automatically switch off the unit

Comfort

- Unique louvre design for strong or weak directional air diffusion
- 4 different swing modes available
- 5-step air flow adjustment

Elegance

- Timeless design
- Infra-red receiver or occupancy sensor can be integrated in one corner

4-Way Cassette Units

Multi-louvre individual control

Individual louvre control enables air flow to be chosen according to user preferences. The angles of each louvre can be set individually in 3 different choices of swing patterns: standard swing, diagonally opposite swing and turn-around swing.



Standard swing



Diagonally opposite swing



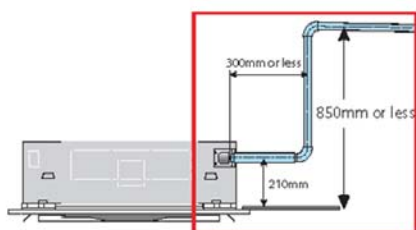
Turn-around swing



Easy installation

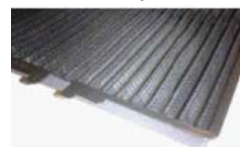
Lightweight unit (24 kg at 5 hp). Easy panel installation. The panel is attached using the bolt already installed on the indoor unit.

Built-in condensate drain pump



Long-life pre-filter

The new long-life pre-filter has a large surface area to improve dust-collection performance.



Ceiling Units

Smooth curved design

The all-new chassis and rounded design have been developed in response to customers' needs for ceiling units that better match their room interiors.



Comfortable ambience

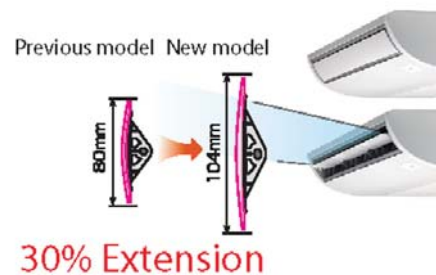
The new design incorporates the turbulence-prevention rib to optimise ventilation. Air volume has increased and noise level has decreased with air throws in 4 hp to 6 hp models reaching up to 4.3 m.

New wide louvre design

The new air outlet offers improved noise reduction and increased air volumes.

Louvre control

The air flow angle is automatically set to the most suitable setting according to your cooling or heating needs, and an automatic swing mode enables air flow to reach all areas of the room to create a comfortable environment.



New drain pump kit available as an option

The drain pump kit makes unit draining easier. Glass crystals incorporated into the drain pump kit helps reduce moisture retention and mould formation.



Slim Ducted Units

Slim design for greater application flexibility

- Only 210 mm in height for greater application flexibility.
- 4-step static pressure set-up.
- Concealed installation within a ceiling void.
- Auxiliary fresh air intake available.



Slim and quiet

Quiet, powerful operation. Perfect comfort throughout the room and can be used with any style of air diffuser.



Ducted Units

Compact sizing

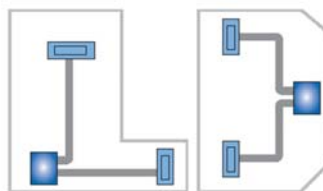
Compact unit size especially in height (275 mm), with new slimmer chassis offers a wide range of installation opportunities to the customer.



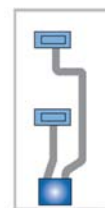
High static pressure

External static pressure can be raised as high as 120 Pa, so that all areas of the room can be reached for even temperature distribution, no matter how complex the layout.

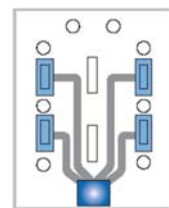
Flexible duct is accessible, allowing complete design options



Polygonal rooms



Narrow rooms



Rooms with fixtures and obstacles

High-Static Ducted Units

Design flexibility

Satisfies all your design needs and is compatible with external static pressures up to 196 Pa.

3-step switchable static pressure

	Low	Standard	High
External static pressure (Pa)	50	150	250

Factory setting: 150 Pa



With its large air volume capability, the high-static ducted unit is most suitable for large rooms. Long-life filters are fitted as standard.



The SDI is the flagship solution of Toshiba's Light Commercial product range. It combines the very latest technologies, low environmental impact and exceptional durability.



The ultimate in performance

With an SEER of 9.40 and a SCOP of 5.51, the Super Digital Inverter will maximise your energy savings and keep operating costs to a minimum thanks to Toshiba's legendary twin rotary compressors and vector-controlled inverter. The SDI series of units also incorporates a unique fan blade design, and new ultra power heat exchanger to boost performances.



All the flexibility you have ever dreamed of

In addition to the wide temperature operating range from -27°C to +52°C, the Super Digital Inverter, with the ability to operate down to a 10% load, can adapt precisely the capacity output for maximum comfort all year round. The 75 m piping length and 30 m height difference in addition to the wide range of indoor units allow the Super Digital Inverter to be suitable for all kinds of projects.

Keep the control

Combined with the RBC-AMS55E remote controller, advanced functions enable installers and users to realise enhanced performance levels, minimise energy wastage and monitor system reliability.



Top class efficiency

- A+++ energy label in cooling and heating
- Top class part load efficiency with COP up to 6.5
- Standby power consumption reduced by 50% at 6 W

Installation flexibility

- Old R22, R407C and R410A pipes can be reused
- Compatible with 1:1 or twin configuration

Advanced control

- Power consumption estimation by day or by month with the RBC-AMS55E-ES/EN
- Built-in leak detection system
- Compatible with Modbus or KNX gateways

RAV Digital Inverter Outdoor Units

DIGITAL INVERTER

Inverter Air Conditioning For Light Commercial Use



Toshiba's Digital Inverter split-system series of air conditioners combines remarkable energy-efficiency and performance in a compact body, making it well-suited for shops and small offices. DI features state-of-the-art vector-controlled inverter and DC twin-rotary technologies, flexible heating and cooling temperature control, and easy installation to bring natural comfort and convenience to any business environment. A complete range of indoor units is available: high-wall, cassette, ducted and ceiling-suspended types. This flexible outdoor unit delivers high performance in a wide range of operating ambient temperatures. One outdoor unit can be connected to 2, 3 or 4 indoor units to provide simultaneous operation of heating or cooling for twin, triple or quad installations.

FEATURES

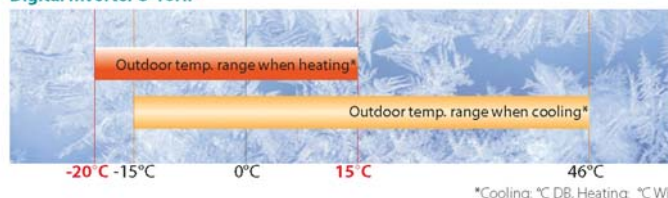
Wide operating range

Heating operation is possible starting from an outdoor temperature of -15°C up to 6 hp and -20°C 8-10 hp, while cooling operation is possible at -15°C and 46°C (6 hp 43°C) outdoor temperatures. This enables wider applications and use of the system in colder regions.

Small, compact and lightweight outdoor unit

The small footprint of the outdoor unit reduces installation space and enables a more efficient use of the site.

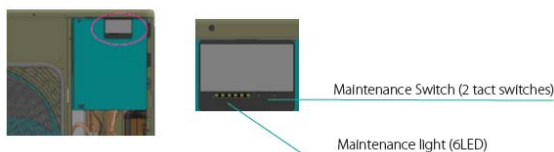
Digital Inverter 8-10HP



1 ~ 3HP



4 ~ 5HP



Easy and safe operation for maintenance of the outdoor unit

Inspection window enables easy access to diagnostic LEDs and switches.

Outstandingly quiet operation and energy-save operation setting

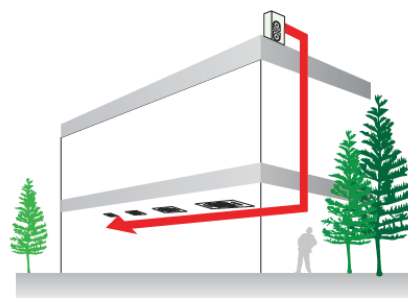
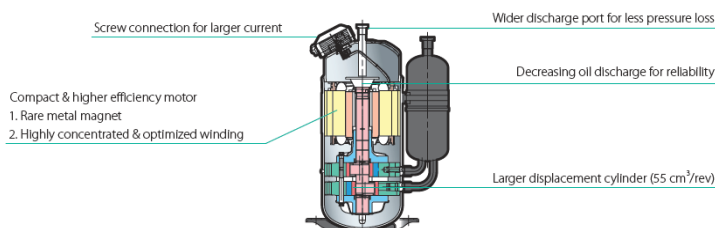
- Night operation mode makes it possible to reduce the operating noise of the outdoor unit within the time that is desired [12 dB(A) reduction for 5 hp unit operating in heating mode].
- Energy-save operation setting is available from 50% to 100% by 1% increments.
- Quiet operation and energy-save operation settings available for 1 hp to 5 hp units.

Note: Night operation is set using the optional remote controller RBC-AMS55E.

Energy-save operation is available for 4 series and later models and set using RBC-AMT32E, RBC-AMS41E or RBC-AMS55E.

High efficiency EER/COP performance

Digital Inverter is equipped with twin-rotary DC inverter compressor with high efficiency R410A refrigerant. A new technology twin-rotary DC compressor, 100 W (x 2 larger models) output, highly-efficient DC fan motor, propeller fan for newly developed 3-row heat exchanger.



Installations can reach up to 70 m in total length (depending on the outdoor unit model) and 30 m in elevation.

RAV Super Digital Inverter Outdoor Units

**SUPER
DIGITAL INVERTER**



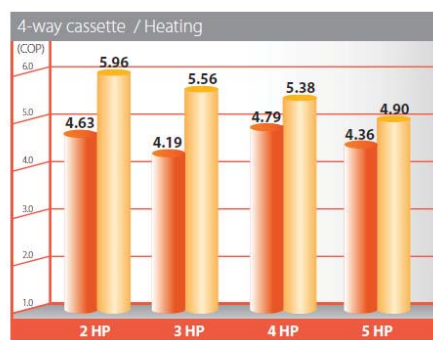
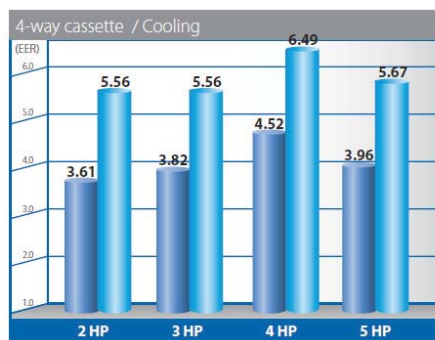
Inverter Air Conditioning For Light Commercial Use

Toshiba's Super Digital Inverter split-system series of air conditioners combines remarkable energy-efficiency and performance in a compact body, making it well-suited for shops and small offices where longer pipe runs are essential. SDI features state-of-the-art vector-controlled inverter and DC twin-rotary technologies, flexible heating and cooling temperature control, and easy installation to bring natural comfort and convenience to any business environment. A complete range of indoor units is available: high-wall, cassette, ducted and ceiling-suspended types. This flexible outdoor unit delivers high performance in a wide range of operating ambient temperatures. One outdoor unit can be connected to 2, 3 or 4 indoor units to provide simultaneous operation of heating or cooling for twin, triple or quad installations.

FEATURES

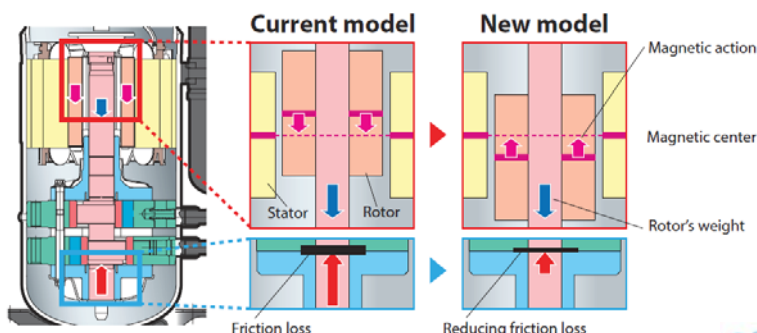
Superior EER

Very efficient energy consumption keeps down operating costs. EER of 4.52 and COP of 4.79 (for 4 hp outdoor unit) achieved by Toshiba's unrivalled Super Digital Inverter technologies and newly developed components.



Rated 50% load

The industry's first magnetic-action control



The new structure allows a huge reduction in energy loss. The balanced magnetic-action force and minimised rotor weight reduces the friction on the axis to provide excellent operating efficiency.

ECO-driving DC twin rotary

Vector-controlled inverter

Vector IPDU control changes the motor current wave to a smooth sine pattern so that noise emitted from the drive units is greatly reduced.

High-efficiency heat transfer (flat fin)

Heat transfer tube with improved heat transfer coefficient.

DC fan motor

Highly efficient DC motor.

Bat wing fan

New development for high-pressure low-volume fan.

Wide-flow grille

Optimising ventilation performance, bringing out the full effect of fan and motor.

DC twin-rotary compressor

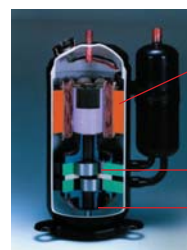
A low minimum speed of 10 rps has been achieved.



R410A refrigerant

An ozone layer depletion coefficient of zero has become absolutely essential for an advanced air conditioning system.

A low minimum speed of 10 rps has been achieved. This has further improved the operating efficiency when the load is low (the minimum in Series 2 was 15 rps).



High power motor

Newly-designed compression path

More precise components

Rotor with slit

The structure and shape of each compressor component has been optimised. The area of the rotor magnet has been increased and a slit introduced to the design. These improvements have further enhanced efficiency and reduced noise.



Large-area magnet

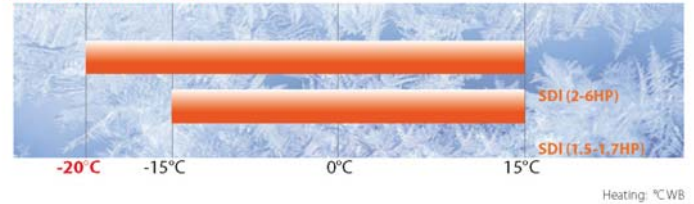
Note: Actual components may vary considerably depending on unit model.

TOSHIBA

Operating temperature range

Heating operation is possible from an outdoor temperature of -20°C to create a comfortable space even during cold winters, while cooling operation is possible at -15°C outdoor temperature. This enables wider applications and use of the system in colder regions.

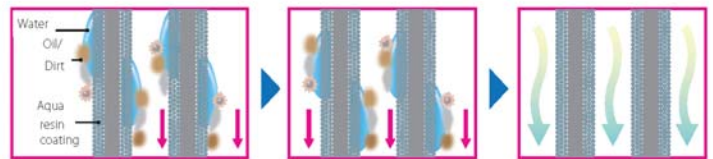
Heating operation range



Self-cleaning operation - continuing high performance for energy saving

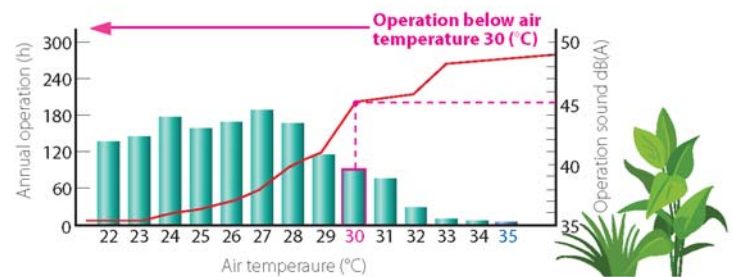
This enables indoor units to maintain the same energy efficiency at the time of purchase for a long time. The self-cleaning function features:

1. Toshiba's Aqua-Resin coating to prevent dirt from sticking to the fins.
2. Condensation water flowing through and washing away dirt.
3. After washing, a drying operation to suppress the formation of mould.



Quiet operation

Low-noise design. If the outdoor temperature is 30°C or lower, the unit operates at under 45 dB(A). It is possible to operate the quiet operation mode automatically below 35°C air temperature.



Frost protection

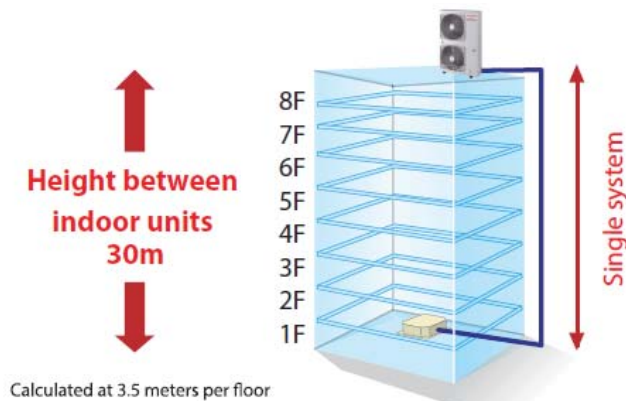
8°C operation for frost protection is possible for the combination with Super Digital Inverter (series 4 and above).

Sub-cool path

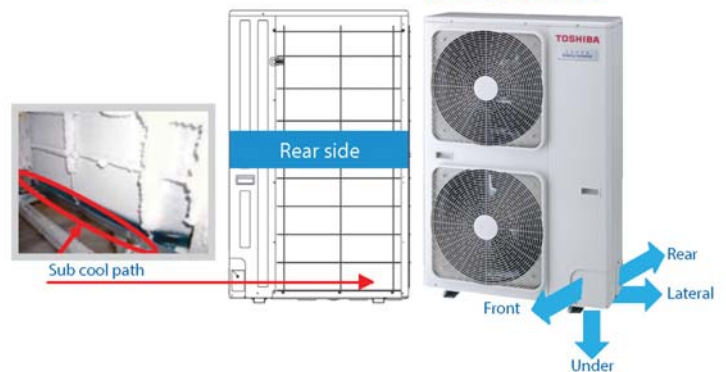
Improve reliability for smooth drainage. The outdoor unit of the Super Digital Inverter range is equipped with "sub-cool path" preventing freezing under a heat exchanger (3 hp to 6 hp only).

Height difference

Super Digital Inverter leads the industry with support for height differences of up to 30 m on a single system. That is enough height to cover an 8-storey building.

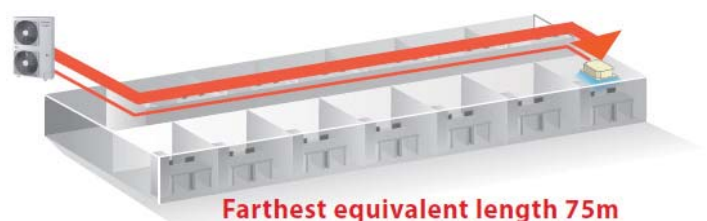


Piping panel taken out in 4 directions



Compatible with pipes up to 75 m long

This enables the outdoor unit to be installed out of sight and increases installation flexibility (4 hp to 6 hp only).



DIGITAL INVERTER



Totally redesigned for ever better performances, the highly compact Toshiba Digital Inverter is now using R32, an environmental-oriented refrigerant with low global warming potential.

Rapid return on investment, guaranteed flexibility and maximum part-load efficiency. All you would expect and more.



A concentrate of efficiency

With capacity outputs up to 13 kW concentrated in a package that is only 890 mm in height and weighs just 69 kg, our Digital Inverter is an ideal solution for limited space configurations without any compromises in efficiency.

Superior adaptability anytime

DI is compatible with a wide choice of indoor units in 1:1 or twin configurations, to answer your expectations from 15 m² up to 160 m² commercial spaces, both in new buildings and renovations.



Efficiency

- A++/A++ energy label
- Top class part-load efficiency
- Operation down to 20% load

High connectivity

- Up to 50 m piping length
- 30 m height difference between the outdoor and the indoor units for perfect integration

Advanced functionalities

- System noise level down to 33 dB(A) with Night Time Operation mode
- Benefit from a power limitation by 1% step between 50% and 100% load for a profitable management of your installation

So convenient

- Self-diagnosis function
- Easy maintenance of the components located just behind the removable corner panel

AVAILABLE 2019...



3 Phase RAV Digital Inverter & Super Digital Inverter Outdoor Units

Toshiba Digital Inverter brings state-of-the-art inverter technology to the commercial sector, offering considerable advantages in terms of capacity, energy savings, optimised control, lower refrigerant charge and utilising the smallest physical dimensions and lightest range of outdoor units in the industry. For single, twin, triple and quad indoor installations.



The Super Digital Inverter is the flagship solution of Toshiba's Light Commercial product range. It combines the very latest technologies, low environmental impact, exceptional durability and long pipe runs up to 75 m. For single, twin, triple and quad indoor installations.

Single-Split Combinations

CAPACITY (kW)	INDOOR	DI PRICE (£)	OUTDOOR	PRICE (£)	INDOOR	SDI PRICE (£)	OUTDOOR	PRICE (£)
10					RAV-RM1101UTP-E	£999	RAV-GP1101AT8-E	£2,453
10					RAV-RM1101CTP-E	£833	RAV-GP1101AT8-E	£2,453
10					RAV-RM1101BTP-E	£945	RAV-GP1101AT8-E	£2,453
12.5					RAV-RM1401UTP-E	£1,032	RAV-GP1401AT8-E	£2,562
12.5					RAV-RM1401CTP-E	£1,049	RAV-GP1401AT8-E	£2,562
12.5					RAV-RM1401BTP-E	£1,055	RAV-GP1401AT8-E	£2,562
14					RAV-SM1601UTP-E	£1,156	RAV-GP1601AT8-E	£2,726
14					RAV-RM1601CTP-E	£1,146	RAV-GP1601AT8-E	£2,726
14					RAV-RM1601BTP-E	£1,233	RAV-GP1601AT8-E	£2,726
19	RAV-RM2241DTP-E	£2,783	RAV-GM2241AT8-E	£3,999				
22.5	RAV-RM2801DTP-E	£2,949	RAV-GM2801AT8-E	£4,005				

Twin, Triple & Quad Combinations

CAPACITY (kW)	DI TWIN		CAPACITY (kW)	SDI TWIN	
	INDOOR MODEL SIZE	OUTDOOR		INDOOR MODEL SIZE	OUTDOOR
19	RAV-RM110*	RAV-GM2241AT8-E	10	RAV-GM/RM561*	RAV-GP1101AT8-E
22.5	RAV-RM140*	RAV-GM2801AT8-E	12.5	RAV-GM/RM801*	RAV-GP1401AT8-E
			14	RAV-GM/RM801*	RAV-GP1601AT8-E
	DI TRIPLE			SDI TRIPLE	
	INDOOR MODEL SIZE	OUTDOOR		INDOOR MODEL SIZE	OUTDOOR
19	RAV-RM801*	RAV-GM2241AT8-E	10	RAV-RM301*	RAV-GP1101AT8-E
22.5	RAV-RM801*	RAV-GM2801AT8-E	12.5	RAV-RM401*	RAV-GP1401AT8-E
			14	RAV-GM/RM561*	RAV-GP1601AT8-E
	DI QUAD			SDI QUAD	
	INDOOR MODEL SIZE	OUTDOOR		INDOOR MODEL SIZE	OUTDOOR
19	RAV-RM561*	RAV-GM2241AT8-E	12.5	RAV-RM301*	RAV-GP1401AT8-E
22.5	RAV-RM801*	RAV-GM2801AT8-E	14	RAV-RM401*	RAV-GP1601AT8-E

*High Wall, Smart Cassette, Compact Cassette, 4-Way Cassette, Ceiling Suspended, Slim Ducted, Ducted



AVAILABLE 2019...

3 Phase RAV Digital Inverter & Super Digital Inverter Compatible Indoor Units

4-Way Cassette Units



The 4-way cassette is the ideal solution for applications where a ceiling void is present and easy access is required for maintenance and filter cleaning.

Ducted



Whatever the shape of the room, this flexible model ensures a uniform temperature and air distribution for optimal end-user comfort.

Ceiling Suspended



Ceiling suspended units have simple, yet elegant design features helping to create a pleasant and relaxing environment, quickly conditioning the room air to the desired temperature.

High-static Ducted



This range of units has been designed to provide a high capacity output from a very small footprint. Offering high efficiency levels, long pipe runs and great flexibility for installation.

NEW Mini Touch Screen Controller RBC-MTSC1



Optional Features

- ✓ Case can be painted during manufacturing process to any RAL colour
- ✓ Case can have a soft touch coating applied during manufacturing

Availability

- ✓ Availability expected April 2019 - £232

Standard Specification

- ✓ Capacitive high-resolution screen
- ✓ Configurable display options
- ✓ Configurable background & screen saver
- ✓ Up to 30 jpeg image storage capacity
- ✓ In-built room temperature sensor
- ✓ Full DN code access
- ✓ Full fault code display
- ✓ Four basic case colours (black, white, cream, grey)
- ✓ High gloss case back with matt case front



High-Wall Indoor Unit

CODE			25	36	50	67
Performance						
Indoor Unit		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
Nominal	Cooling Capacity	kW	2.5	3.6	5.0	6.7
	Heating Capacity	kW	3.4	4.0	5.3	7.7
	EER/COP	W/W	4.10/4.00	3.19/3.57	3.01/3.42	2.75/2.95
UK	Cooling Total/Sensible	kW	2.37/1.97	3.42/2.67	4.75/3.61	6.36/4.66
	Heating	kW	2.43	2.86	3.79	5.51
Cooling EN14825	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0
	Power Input	kW	0.61	1.13	1.66	2.44
	Pdesign	kW	2.50	3.60	5.00	6.70
	SEER/Energy Efficiency Class		6.36/A++	6.12/A++	6.19/A++	5.73/A+
Heating EN14825	Seasonal Energy Consumption	kWh/a	138	206	283	409
	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
	Power Input	kW	0.85	1.12	1.55	2.61
	Pdesign	kW	2.60	2.70	2.80	5.10
	SCOP/Energy Efficiency Class		4.10/A+	4.22/A+	4.00/A+	4.01/A+
	Seasonal Energy Consumption	kWh/a	887	895	980	1780

Indoor Data		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14
Remote Controller			WH-TA09NE (Infra-red)	WH-TA09NE (Infra-red)	WH-TA09NE (Infra-red)	WH-TA09NE (Infra-red)

Outdoor Data		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 612	2400 - 667	2700 - 750
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48	48/52
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65	65/69
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	29	34	40	42
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Min.-Max. Length	m	2-20	2-20	5-30	5-30
	Maximum Height Difference	m	±10	±10	±10	±10
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20	R32 - 1.3/20
	Additional Charge Liquid Side	g/m	20	20	20	35
Run Current	Maximum	A	4.17	5.60	7.78	12.23
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£304	£331	£427	£460
OUTDOOR RETAIL PRICE	£590	£707	£863	£1,154
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£894	£1,038	£1,290	£1,614

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Wall installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Remote control included



Compact Cassette Indoor Unit

CODE		25		36		50	
Performance							
Indoor Unit		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E		
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E		
Nominal	Cooling Capacity	kW	2.5	3.6	5.0		
	Heating Capacity	kW	3.4	4.0	5.3		
	EER/COP	W/W	4.24/4.47	4/4.21	3.05/3.61		
UK	Cooling Total/Sensible	kW	2.40/1.95	3.45/2.79	4.80/3.50		
	Heating	kW	2.18	2.56	3.79		
Cooling EN14825	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6		
	Power Input	kW	0.59	0.9	1.64		
	Pdesign	kW	2.50	3.60	5.00		
	SEER/Energy Efficiency Class		5.94/A++		5.76/A+	5.69/A+	
	Seasonal Energy Consumption	kWh/a	158	235	319		
Heating EN14825	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3		
	Power Input	kW	0.76	0.95	1.47		
	Pdesign	kW	2.30	2.70	2.80		
	SCOP/Energy Efficiency Class		4.7/A++		4.44/A+	4.37/A+	
	Seasonal Energy Consumption	kWh/a	705	1032	1279		

Indoor Data		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 612	2400 - 667
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	33	39	40
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	5-30
	Maximum Height Difference	m	±10	±10	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20
	Additional Charge Liquid Side	g/m	20	20	20
Run Current	Maximum	A	3.75	4.64	7.93
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16

INDOOR RETAIL PRICE	£885	£896	£918
OUTDOOR RETAIL PRICE	£590	£707	£863
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59
SYSTEM RETAIL PRICE	£1,534	£1,662	£1,840

Accessories

RBC-AX41U(W)-E	Remote Controller	Wireless infra-red controller and receiver	£160
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£76



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Standard 600 x 600 ceiling size



Automatic restart



Louvre control



Low ambient cooling to -15°C DB

TOSHIBA



4-Way Cassette Indoor Unit

CODE			50	67	95	95
Performance						
Indoor Unit		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1101UTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5	9.5
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	3.21/3.9	3.02/3.62	3.31/3.82	3.31/3.82
UK	Cooling Total/Sensible	kW	4.80/3.60	6.40/4.80	9.10/7.56	9.10/7.56
	Heating	kW	3.79	5.51	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.56	2.22	2.87	2.87
	Pdesign	kW	5.00	6.70	9.50	9.50
	SEER/Energy Efficiency Class		6.34/A++	5.81/A+	6.15/A++	6.15/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	285	404	597	597
	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.36	2.13	2.93	2.93
	Pdesign	kW	2.80	5.10	8.00	8.00
	SCOP/Energy Efficiency Class		4.60/A+	4.42/A+	4.28/A+	4.28/A+
	Seasonal Energy Consumption	kWh/a	1459	2349	2616	2616

Indoor Data		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1101UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225	558 - 400 - 325	558 - 400 - 325
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810	2010 - 1440 - 1170	2010 - 1440 - 1170
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28	43 - 38 - 33	43 - 38 - 33
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43	58 - 53 - 48	58 - 53 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-UM31PGP(W)-E	kg	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 0.9/20	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35
Run Current	Maximum	A	7.31	10.40	14.20	4.75
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£821	£916	£999	£999
OUTDOOR RETAIL PRICE	£863	£1,154	£1,589	£1,753
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£1,743	£2,129	£2,647	£2,811

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Auto-diagnosis



Built-in drain pump



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Louvre control



Chargeless



Wired controller



Individual louvre control



4-Way Cassette Indoor Unit (continued)

CODE			120	120	140
Performance					
Indoor Unit		RAV-	RM1401UTP-E	RM1401UTP-E	SM1604UTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1
Nominal	Cooling Capacity	kW	12.0	12.0	14.0
	Heating Capacity	kW	12.8	12.8	16.0
	EER/COP	W/W	2.8/3.76	2.8/3.76	3.12/3.61
UK	Cooling Total/Sensible	kW	11.40/8.80	11.40/8.80	13.30/9.40
	Heating	kW	9.30	9.30	10.45
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0
	Power Input	kW	3.57	3.57	4.49
	Pdesign	kW	12.00	12.00	14.00
	SEER/Energy Efficiency Class		5.71/A+	5.71/A+	5.25/207.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	783	783	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0
	Power Input	kW	3.46	3.46	4.43
	Pdesign	kW	8.00	8.00	10.00
	SCOP/Energy Efficiency Class		4.29/A+	4.29/A+	4.05/159.0
	Seasonal Energy Consumption	kWh/a	2672	2672	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	583 - 400 - 342	583 - 400 - 342	592 - 417 - 350
	High - Medium - Low	m³/h	2100 - 1440 - 1230	2100 - 1440 - 1230	2130 - 1500 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 34	44 - 38 - 34	45 - 40 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 49	59 - 53 - 49	60 - 55 - 51
Unit	Height x Width x Depth	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	24	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-UM31PGP(W)-E	kg	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	35	35	40
Run Current	Maximum	A	20.75	6.90	21.7
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
INDOOR RETAIL PRICE			£1,032	£1,032	£1,156
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,788	£2,954	£3,864

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Self-cleaning



Automatic restart



Auto-diagnosis



Single-split



Louvre control



Individual louvre control



Built-in drain pump



Low ambient cooling to -15°C DB



Chargeless



Wired controller



Ceiling Indoor Unit

CODE		36		50		69		95		
Performance										
Indoor Unit		RAV-	RM401CTP-E	RM561CTP-E		RM801CTP-E		RM1101CTP-E		
Outdoor Unit		RAV-	GM401ATP-E	GM561ATP-E		GM801ATP-E		GM1101ATP-E		
Nominal	Cooling Capacity	kW	3.6	5.0		6.9		9.5		
	Heating Capacity	kW	4.0	5.3		7.7		11.2		
	EER/COP	W/W	4.34/5.13	3.11/3.9		2.9/3.62		3.22/3.81		
UK	Cooling Total/Sensible	kW	3.45/2.89	4.80/3.06		6.60/5.00		9.10/7.18		
	Heating	kW	2.56	3.79		5.51		8.01		
Cooling EN14825	Range Min. - Max.	kW	0.9 - 4.0	1.5 - 5.6		1.5 - 7.4		3.0 - 11.2		
	Power Input	kW	0.83	1.61		2.38		2.95		
	Pdesign	kW	3.60	5.00		6.90		9.50		
	SEER/Energy Efficiency Class (or ηsc %)		6.34/A++		5.50/A		5.62/A+		5.86/A+	
Heating EN14825	Seasonal Energy Consumption	kWh/a	211	324		429		604		
	Range Min. - Max.	kW	0.8 - 5.0	1.5 - 6.3		1.5 - 9.0		3.0 - 13.0		
	Power Input	kW	0.78	1.36		2.13		2.94		
	Pdesign	kW	2.70	2.80		5.10		7.60		
	SCOP/Energy Efficiency Class (or ηsc(A) %)		5.1/A+++		4.32/A+		4.21/A+		4.27/A+	
	Seasonal Energy Consumption	kWh/a	1125	1562		2372		2489		

Indoor Data		RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E	RM1101CTP-E
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208	517 - 375 - 283
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750	1860 - 1350 - 1020
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29	44 - 38 - 32
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44	59 - 53 - 47
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690
	Weight	kg	23	23	29	37
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GM401ATP-E	GM561ATP-E	GM801ATP-E	GM1101ATP-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2200 - 612	2400 - 667	2700 - 750	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	49/50	46/48	48/52	54/57
	Power High Cooling/Heating	dB(A)	64/65	63/65	65/69	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320
	Weight	kg	39	40	44	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	2-20	5-30	5-30	5-50
	Maximum Height Difference	m	±10	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	20	35	35
Run Current	Maximum	A	4.10	7.54	11.15	14.30
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20

INDOOR RETAIL PRICE	£591	£645	£763	£833
OUTDOOR RETAIL PRICE	£707	£863	£1,154	£1,589
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£1,357	£1,567	£1,976	£2,481

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ceiling Indoor Unit (continued)

CODE		95	121	121	140
Performance					
Indoor Unit		RAV-	RM1101CTP-E	RM1401CTP-E	RM1401CTP-E
Outdoor Unit		RAV-	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	12.1	12.1
	Heating Capacity	kW	11.2	12.8	12.8
	EER/COP	W/W	3.22/3.81	2.74/3.74	2.74/3.74
UK	Cooling Total/Sensible	kW	9.10/7.18	11.50/8.40	11.50/8.40
	Heating	kW	9.30	9.30	9.30
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
	Power Input	kW	2.95	4.67	4.67
	Pdesign	kW	9.50	12.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.86/A+	5.36/211.4	5.36/211.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	604	-	-
	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.94	3.48	3.48
	Pdesign	kW	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.27/A+	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2489	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	517 - 375 - 283	567 - 425 - 333	567 - 425 - 333
	High - Medium - Low	m³/h	1860 - 1350 - 1020	2040 - 1530 - 1200	2040 - 1530 - 1200
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 32	46 - 41 - 35	46 - 41 - 35
	Power High - Medium - Low	dB(A)	59 - 53 - 47	61 - 56 - 50	61 - 56 - 50
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	37	37	37
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	69	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	35	35	35
Run Current	Maximum	A	4.75	21.40	7.15
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£833	£1,049	£1,049
OUTDOOR RETAIL PRICE			£1,753	£1,697	£1,863
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,645	£2,805	£2,971

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ducted Indoor Unit

CODE			50	67	95	95
Performance						
Indoor Unit		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5	9.5
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	2.73/3.27	2.82/3.32	3.18/3.75	3.18/3.75
UK	Cooling Total/Sensible	kW	4.80/3.60	6.30/4.90	9.10/7.37	9.10/7.37
	Heating	kW	3.79	5.51	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.83	2.38	2.99	2.99
	Pdesign	kW	5.00	6.70	9.50	9.50
	SEER/Energy Efficiency Class (or ηsc %)		5.28/A	5.2/A	5.28/A	5.28/A
	Seasonal Energy Consumption	kWh/a	365	466	696	696
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.62	2.32	2.99	2.99
	Pdesign	kW	2.80	5.10	7.60	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.08/A+	4.13/A+	4.19/A+	4.19/A+
	Seasonal Energy Consumption	kWh/a	1549	2450	2569	2569

Indoor Data		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	800 - 630 - 480	1200 - 930 - 720	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	23	30	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35
Run Current	Maximum	A	8.58	11.20	14.50	4.85
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£577	£827	£945	£945
OUTDOOR RETAIL PRICE	£863	£1,154	£1,589	£1,753
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£1,499	£2,040	£2,593	£2,757

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM110#_160#BTP-E	£147



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller



Automatic restart



Ducted Indoor Unit (continued)

CODE			121	121	140
Performance					
Indoor Unit		RAV-	RM1401BTP-E	RM1401BTP-E	SM1606BTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1
Nominal	Cooling Capacity	kW	12.1	12.1	14.0
	Heating Capacity	kW	12.8	12.8	16.0
	EER/COP	W/W	2.74/3.61	2.74/3.61	2.73/3.41
UK	Cooling Total/Sensible	kW	11.15/8.90	11.15/8.90	13.30/9.30
	Heating	kW	9.30	9.30	10.45
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0
	Power Input	kW	4.67	4.42	5.13
	Pdesign	kW	12.00	12.00	14.00
	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	5.36/211.4	4.60/181.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0
	Power Input	kW	3.6	3.6	4.69
	Pdesign	kW	8.00	8.00	10.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	3.72/145.8
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	35	35	40
Run Current	Maximum	A	21.40	7.15	21.7
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
INDOOR RETAIL PRICE			£1,055	£1,055	£1,240
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,811	£2,977	£3,948

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS5E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM110#_160#BTP-E	£147



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller



Automatic restart



Slim Ducted Indoor Unit

CODE			25		36		50		
Performance									
Indoor Unit			RAV-	RM301SDT-E		RM401SDT-E		RM561SDT-E	
Outdoor Unit			RAV-	GM301ATP-E		GM401ATP-E		GM561ATP-E	
Nominal	Cooling Capacity		kW	2.5		3.6		5.0	
	Heating Capacity		kW	3.4		4.0		5.3	
	EER/COP		W/W	4.46/3.95		3.87/4.12		2.62/3.53	
UK	Cooling Total/Sensible		kW	2.40/1.79		3.45/2.84		4.80/3.30	
	Heating		kW	2.18		2.56		3.79	
Cooling EN14825	Range Min. - Max.		kW	0.9 - 3.0		0.9 - 4.0		1.5 - 5.6	
	Power Input		kW	0.56		0.93		1.91	
	Pdesign		kW	2.50		3.60		5.00	
	SEER/Energy Efficiency Class			6.29/A++		5.86/A+		5.14/A	
	Seasonal Energy Consumption			kWh/a	143		227		346
Heating EN14825	Range Min. - Max.		kW	0.8 - 4.5		0.8 - 5.0		1.5 - 6.3	
	Power Input		kW	0.86		0.97		1.50	
	Pdesign		kW	2.60		2.70		2.80	
	SCOP/Energy Efficiency Class			4.6/A++		4.01/A+		4.16/A+	
	Seasonal Energy Consumption			kWh/a	907		1337		1517

Indoor Data		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 612	2400 - 667
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	33	39	40
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2 - 20	2 - 20	5 - 30
	Maximum Height Difference	m	±10	±10	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20
	Additional Charge Liquid Side	g/m	20	20	20
Run Current	Maximum	A	4.20	4.75	8.95
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16

INDOOR RETAIL PRICE	£615	£628	£640
OUTDOOR RETAIL PRICE	£590	£707	£863
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59
SYSTEM RETAIL PRICE	£1,264	£1,394	£1,562

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Self-cleaning



Single-split



Chargeless



Automatic restart



Built-in drain pump



Wired controller

DIGITAL INVERTER



High-Static Ducted Indoor Unit

CODE			200	237
Performance				
Indoor Unit		RAV-	SM2244DTP-E	SM2804DTP-E
Outdoor Unit		RAV-	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	20.0	23.7
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.18/3.79	2.71/3.75
UK	Cooling Total/Sensible	kW	18.2/15.8	21.5/18.8
	Heating	kW	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	7.20	8.75
	Pdesign	kW	19.00	22.50
	SEER/Energy Efficiency Class (or ηsc %)		4.80/189.0	4.73/186.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-
	Range Min. - Max.	kW	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	6.49	8.15
	Pdesign	kW	18.00	20.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.51/137.4	3.44/134.6
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	1056 - 889 - 694	1333 - 1167 - 972
	High - Medium - Low	m³/h	3800 - 3200 - 2500	4800 - 4200 - 3500
External Static Pressure	Standard (Upper - Lower)	Pa	150 (250 - 50)	150 (250 - 50)
Sound	Pressure High - Medium - Low	dB(A)	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	79 - 75 - 71	81 - 77 - 73
Unit	Height x Width x Depth	mm	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25
Run Current	Maximum	A	2.80	3.75
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-15	220-240/1/50-15
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	52 to -15/15 to -27	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	9180 - 2550	10920 - 3033
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 (3/4) - 1/2	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R410A - 5.9/30	R410A - 5.9/30
	Additional Charge Liquid Side	g/m	90	90
Run Current	Maximum	A	10.78	15.06
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,783	£2,949
OUTDOOR RETAIL PRICE			£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£7,394	£7,566

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Concealed false ceiling installation



Self-cleaning



Automatic restart



Auto-diagnosis



Single-split



Low ambient cooling to -15°C DB



Chargeless



Wired controller

TOSHIBA



Floor-Mounted Cabinet Indoor Unit

CODE		140	
Performance			
Indoor Unit		MMF-	AP0566H1-E
Outdoor Unit		RAV-	SM1603AT-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	2.97/0.16
UK	Cooling Total/Sensible	kW	14.5/10.8
	Heating	kW	12.20
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0
	Power Input	kW	4.70
	Pdesign	kW	-
	SEER/Energy Efficiency Class		-
	Seasonal Energy Consumption	kWh/a	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0
	Power Input	kW	4.66
	Pdesign	kW	-
	SCOP/Energy Efficiency Class		-
	Seasonal Energy Consumption	kWh/a	-
Indoor Data		MMF-	AP0566H1-E
Air Flow	High - Medium - Low	l/s	600 - 480 - 100
	High - Medium - Low	m³/h	2160 - 1730 - 1560
Sound	Pressure High - Medium - Low	dB(A)	54 - 49 - 44
	Power High - Medium - Low	dB(A)	72 - 67 - 62
Unit	Height x Width x Depth	mm	1750 x 600 x 390
	Weight	kg	62
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw
Remote Controller			RBC-AMT32E
Outdoor Data		RAV-	SM1603AT-E1
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	5-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	40
Run Current	Maximum	A	21.81
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32
INDOOR RETAIL PRICE			£1,811
RBC-CK2 CONVERSION KIT (supplied loose)			£136
OUTDOOR RETAIL PRICE			£2,649
REMOTE CONTROLLER RBC-AMT32E			£59
SYSTEM RETAIL PRICE			£4,655

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Twin-Split High-Wall Indoor Unit

CODE		50	69	95	95
Performance					
Indoor Unit 1		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5
	Heating Capacity	kW	5.3	7.7	11.2
	EER/COP	W/W	3.01/3.42	2.75/2.95	3.19/3.75
UK	Cooling Total/Sensible	kW	4.75/3.61	6.36/4.66	9.5/7.22
	Heating	kW	3.79	5.51	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2
	Power Input	kW	1.66	2.44	2.98
	Pdesign	kW	5.00	6.70	9.50
	SEER/Energy Efficiency Class (or ηsc %)		6.19/A++	5.73/A+	5.32/A
	Seasonal Energy Consumption	kWh/a	283	409	625
Heating EN14825	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	3.0 - 13.0
	Power Input	kW	1.55	2.61	2.99
	Pdesign	kW	2.80	5.10	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/A+	4.01/A+	4.19/A+
	Seasonal Energy Consumption	kWh/a	980	1780	2539
Indoor Data					
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189
	High - Medium - Low	m³/h	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
	Weight	kg	10	10	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-L17SE	WH-L11SE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320
	Weight	kg	40	44	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	7.78	12.23	14.50
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
INDOOR RETAIL PRICE			£608	£662	£854
OUTDOOR RETAIL PRICE			£863	£1,154	£1,589
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£1,530	£1,875	£2,502

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split High-Wall Indoor Unit (continued)

CODE			120	120	140
Performance					
Indoor Unit 1		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Indoor Unit 2		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1
Nominal	Cooling Capacity	kW	12.1	12.1	14.0
	Heating Capacity	kW	13.0	13.0	16.0
	EER/COP	W/W	2.57/3.37	2.57/3.37	2.65/3.30
UK	Cooling Total/Sensible	kW	12.72/9.32	12.72/9.32	13.30/9.40
	Heating	kW	9.3	9.3	10.45
	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0
Cooling EN14825	Power Input	kW	4.71	4.71	4.57
	Pdesign	kW	12.10	12.10	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.24/206.6	5.24/206.6	5.00/197.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	1385	1385	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0
	Power Input	kW	3.86	3.86	4.24
	Pdesign	kW	13.00	13.00	10.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	3.90/153.0
	Seasonal Energy Consumption	kWh/a	2539	2539	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	289 - 253 - 189	289 - 253 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	1040 - 910 - 680	1040 - 910 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	45 - 41 - 35	45 - 41 - 35	45 - 41 - 35
	Power High - Medium - Low	dB(A)	60 - 56 - 51	60 - 56 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
	Remote Controller (Infra-Red - hard-wired recommended)		WH-L17SE	WH-L11SE	WH-L11SE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	40
Run Current	Maximum	A	22.80	7.60	21.7
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
INDOOR RETAIL PRICE			£920	£920	£920
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,676	£2,842	£3,628

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Compact Cassette Indoor Unit

CODE		50	67	95	95
Performance					
Indoor Unit 1		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5
	Heating Capacity	kW	5.3	7.7	11.2
	EER/COP	W/W	3.21/3.9	3.02/3.62	3.17/3.44
UK	Cooling Total/Sensible	kW	4.80/3.50	6.90/5.58	9.60/7.00
	Heating	kW	3.79	5.12	7.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2
	Power Input	kW	1.56	2.22	3.00
	Pdesign	kW	5.00	6.70	9.50
	SEER/Energy Efficiency Class		5.69/A+	-*	5.50/A
	Seasonal Energy Consumption	kWh/a	319	-*	604
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0
	Power Input	kW	1.36	2.13	3.26
	Pdesign	kW	2.80	5.10	7.40
	SCOP/Energy Efficiency Class		4.37/A+	-*	4.02/A+
	Seasonal Energy Consumption	kWh/a	1279	-*	2576
Indoor Data					
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320
	Weight	kg	40	44	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	7.31	10.40	15.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
* Waiting for published data.					
INDOOR RETAIL PRICE			£1,770	£1,792	£1,836
OUTDOOR RETAIL PRICE			£863	£1,154	£1,589
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,692	£3,005	£3,484

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit

CODE			95	95	120	120
Performance						
Indoor Unit 1		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.0	12.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8
	EER/COP	W/W	3.31/3.82	3.31/3.82	2.8/3.76	2.8/3.76
UK	Cooling Total/Sensible	kW	9.10/7.56	9.10/7.56	11.40/8.80	11.40/8.80
	Heating	kW	8.01	8.01	9.30	9.30
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
	Power Input	kW	2.87	2.87	4.57	4.57
	Pdesign	kW	9.50	9.50	12.00	12.00
	SEER/Energy Efficiency Class		5.94/A+	5.94/A+	5.71/A+	5.71/A+
	Seasonal Energy Consumption	kWh/a	560	560	754	754
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.93	2.93	3.46	3.46
	Pdesign	kW	8.00	8.00	8.00	8.00
	SCOP/Energy Efficiency Class		4.28/A+	4.28/A+	4.29/A+	4.29/A+
	Seasonal Energy Consumption	kWh/a	2614	2614	2609	2609
Indoor Data						
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	292 - 242 - 217	342 - 267 - 225	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1050 - 870 - 780	1230 - 960 - 810	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	32 - 29 - 28	35 - 31 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	47 - 44 - 43	50 - 46 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-UM31PGP(W)-E	kg	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	14.20	4.75	20.75	6.90
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,642	£1,642	£1,832	£1,832
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£3,290	£3,454	£3,588	£3,754

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit (continued)

CODE		140	200	230
Performance				
Indoor Unit 1		RAV-	RM801UTP-E	RM1101UTP-E
Indoor Unit 2		RAV-	RM801UTP-E	RM1101UTP-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0
	Heating Capacity	kW	16.0	22.4
	EER/COP	W/W	3.12/3.61	3.21/3.85
UK	Cooling Total/Sensible	kW	13.30/9.40	19.30/15.30
	Heating	kW	10.45	14.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.49	6.24
	Pdesign	kW	14.0	20.0
	SEER/Energy Efficiency Class		5.28/208.2	6.78/268.2
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	4.43	5.82
	Pdesign	kW	10.0	22.0
	SCOP/Energy Efficiency Class		4.05/159.0	4.05/159.0
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	342 - 267 - 225	558 - 400 - 325
	High - Medium - Low	m³/h	1230 - 960 - 810	2010 - 1440 - 1170
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	43 - 38 - 33
	Power High - Medium - Low	dB(A)	50 - 46 - 43	58 - 53 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	319 x 840 x 840
	Weight	kg	20	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950
	Weight RBC-UM31PGP(W)-E	kg	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20
Power Cable	Indoor to Indoor	mm	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	8000 - 2222
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57
	Power High Cooling/Heating	dB(A)	68/70	72/74
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320
	Weight	kg	99	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	7.5-70
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	80
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	21.7	10.09
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,832	£1,998
OUTDOOR RETAIL PRICE			£2,649	£4,552
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£4,540	£6,609

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit

CODE		69	95	95	121
Performance					
Indoor Unit 1		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E
Outdoor Unit		RAV-	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	6.9	9.5	12.1
	Heating Capacity	kW	7.7	11.2	12.8
	EER/COP	W/W	2.9/3.62	3.22/3.81	3.22/3.81
UK	Cooling Total/Sensible	kW	6.60/5.00	9.10/7.18	11.50/8.40
	Heating	kW	5.51	8.01	9.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 7.4	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	2.38	2.95	4.67
	Pdesign	kW	6.90	9.50	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.62/A+	5.85/A+	5.85/A+
	Seasonal Energy Consumption	kWh/a	429	568	660
Heating EN14825	Range Min. - Max.	kW	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	2.13	2.94	3.48
	Pdesign	kW	5.10	7.60	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.21/A+	4.28/A+	4.28/A+
	Seasonal Energy Consumption	kWh/a	2372	2487	2487
Indoor Data					
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690
	Weight	kg	23	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	48/52	54/57	55/57
	Power High Cooling/Heating	dB(A)	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	44	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.3	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	11.15	14.30	4.75
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£1,182	£1,290	£1,290
OUTDOOR RETAIL PRICE			£1,154	£1,589	£1,753
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,395	£2,938	£3,102

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit (continued)

CODE		121	140	200	230
Performance					
Indoor Unit 1		RAV-	RM801CTP-E	RM801CTP-E	RM1101CTP-E
Indoor Unit 2		RAV-	RM801CTP-E	RM801CTP-E	RM1101CTP-E
Outdoor Unit		RAV-	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	12.1	14.0	20.0
	Heating Capacity	kW	12.8	16.0	22.4
	EER/COP	W/W	2.74/3.74	3.01/3.47	2.81/3.50
UK	Cooling Total/Sensible	kW	11.50/8.40	13.30/9.30	19.30/13.50
	Heating	kW	9.30	10.45	14.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.67	4.65	7.12
	Pdesign	kW	12.00	14.0	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	4.95/195.0	5.89/232.6
Heating EN14825	Seasonal Energy Consumption	kWh/a	660	-	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	3.48	4.61	6.40
	Pdesign	kW	8.00	10.0	20.0
SCOP/Energy Efficiency Class (or ηsc(A) %)			4.19/164.6	3.95/155.0	3.79/148.6
Seasonal Energy Consumption		kWh/a	2543	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	392 - 278 - 208	392 - 278 - 208	517 - 375 - 283
	High - Medium - Low	m³/h	1410 - 1000 - 750	1410 - 1002 - 750	1860 - 1350 - 1020
Sound	Pressure High - Medium - Low	dB(A)	41 - 36 - 29	41 - 36 - 29	44 - 38 - 32
	Power High - Medium - Low	dB(A)	56 - 51 - 44	56 - 51 - 44	59 - 53 - 47
Unit	Height x Width x Depth	mm	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690
	Weight	kg	29	29	37
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	20
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	43 to -15/15 to -15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	4200 - 1167	6180 - 1717	8000 - 2222
Sound	Pressure High Cooling/Heating	dB(A)	55/57	51/53	56/57
	Power High Cooling/Heating	dB(A)	70/74	68/70	72/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	1340 x 900 x 320	1540 x 900 x 320
	Weight	kg	69	99	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	35	40	80
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	7.15	21.7	11.51
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,526	£1,526	£1,666
OUTDOOR RETAIL PRICE			£1,863	£2,649	£4,552
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£3,448	£4,234	£6,277

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Slim Ducted Indoor Unit

CODE		50	67	95	95
Performance					
Indoor Unit 1		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5
	Heating Capacity	kW	5.3	7.7	11.2
	EER/COP	W/W	2.73/3.27	2.82/3.32	3.14/3.75
UK	Cooling Total/Sensible	kW	4.80/3.30	-*	9.60/6.80
	Heating	kW	3.79	-*	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.0 - 11.2
	Power Input	kW	1.83	2.38	3.03
	Pdesign	kW	5.00	6.70	9.50
	SEER/Energy Efficiency Class		5.14/A	-*	5.32/A
	Seasonal Energy Consumption	kWh/a	346	-*	625
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0
	Power Input	kW	1.62	2.32	2.99
	Pdesign	kW	2.80	5.10	7.40
	SCOP/Energy Efficiency Class		4.16/A+	-*	4.19/A+
	Seasonal Energy Consumption	kWh/a	1517	-*	2471
Indoor Data					
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP26/20	VP26/20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320
	Weight	kg	40	44	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	8.58	11.20	14.70
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
* Waiting for published data.					
INDOOR RETAIL PRICE			£1,230	£1,256	£1,280
OUTDOOR RETAIL PRICE			£863	£1,154	£1,589
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,152	£2,469	£3,092

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit

CODE			95	95	121	121
Performance						
Indoor Unit 1		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.1	12.1
	Heating Capacity	kW	11.2	11.2	12.8	12.8
	EER/COP	W/W	3.18/3.75	3.18/3.75	2.74/3.61	2.74/3.61
UK	Cooling Total/Sensible	kW	9.10/7.37	9.10/7.37	11.15/8.90	11.15/8.90
	Heating	kW	8.01	8.01	9.30	9.30
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
	Power Input	kW	2.99	2.99	4.67	4.42
	Pdesign	kW	9.50	9.50	12.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.28/A	5.28/A	5.36/211.4	5.36/211.4
	Seasonal Energy Consumption	kWh/a	630	630	707	707
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.99	2.99	3.60	3.60
	Pdesign	kW	7.60	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.22/A+	4.22/A+	4.21/165.4	4.21/165.4
	Seasonal Energy Consumption	kWh/a	2520	2520	2569	2569
Indoor Data						
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200	333 - 258 - 200
	High - Medium - Low	m³/h	800 - 630 - 480	800 - 630 - 480	1200 - 930 - 720	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	34 - 30 - 26	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	48 - 44 - 40	49 - 45 - 41	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750	275 x 1000 x 750
	Weight	kg	23	23	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	14.50	4.85	21.40	7.15
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,154	£1,154	£1,654	£1,654
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£2,802	£2,966	£3,410	£3,576

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit (continued)

CODE			140	200	230
Performance					
Indoor Unit 1		RAV-	RM801BTP-E	RM1101BTP-E	RM1401BTP-E
Indoor Unit 2		RAV-	RM801BTP-E	RM1101BTP-E	RM1401BTP-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.73/3.41	2.81/3.50	2.41/3.41
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/15.00
	Heating	kW	10.45	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	5.13	7.12	9.55
	Pdesign	kW	14.0	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		4.70/185.0	5.23/206.2	5.10/201.0
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.69	6.40	7.92
	Pdesign	kW	10.0	22.0	25.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.74/146.6	3.72/145.8	3.64/142.6
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	333 - 258 - 200	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	1200 - 930 - 720	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	34 - 30 - 26	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	49 - 45 - 41	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20	20
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Power Cable	Indoor to Indoor		3 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	8000 - 2222	9000 - 2500
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57	57/58
	Power High Cooling/Heating	dB(A)	68/70	72/74	74/75
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320	1540 x 900 x 320
	Weight	kg	99	134	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	80	80
	Additional Charge Sub Liquid Side	g/m	40	40	40
Run Current	Maximum	A	21.7	11.51	15.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£1,654	£1,890	£2,110
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£4,362	£6,501	£6,727

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Floor-Mounted Cabinet Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1		MMF-	AP0246H1-E	AP0366H1-E	AP0486H1-E
Indoor Unit 2		MMF-	AP0246H1-E	AP0366H1-E	AP0486H1-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.96/3.42	3.14/3.97	2.89/3.67
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/14.90
	Heating	kW	10.45	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	4.71	6.35	7.95
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.67	5.64	7.35
	Pdesign	kW	-	-	-
SCOP/Energy Efficiency Class			-	-	-
Seasonal Energy Consumption		kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	333 - 275 - 67	533 - 450 - 50	600 - 517 - 100
	High - Medium - Low	m³/h	1200 - 990 - 840	1920 - 1620 - 1380	2160 - 1730 - 1560
Sound	Pressure High - Medium - Low	dB(A)	49 - 45 - 39	51 - 46 - 41	54 - 49 - 44
	Power High - Medium - Low	dB(A)	67 - 63 - 57	69 - 64 - 59	72 - 67 - 62
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	47	62	62
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20	20
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	6180 - 1717	9180 - 2550	10920 - 3033
Sound	Pressure High Cooling/Heating	dB(A)	51/53	58/60	61/63
	Power High Cooling/Heating	dB(A)	68/70	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	99	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 (3/4) - 1/2	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	90	90
	Additional Charge Sub Liquid Side	g/m	40	45	45
Run Current	Maximum	A	21.91	10.78	15.06
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£3,098	£3,286	£3,452
RBC-CK2 CONVERSION KIT (supplied loose)			£272	£272	£272
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£6,078	£8,169	£8,341

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit

CODE			95	95	120	120
Performance						
Indoor Unit 1	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM401KRTP-E
Indoor Unit 2	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM401KRTP-E
Indoor Unit 3	RAV-	GM301KRTP-E	GM301KRTP-E	GM401KRTP-E	GM401KRTP-E	GM401KRTP-E
Outdoor Unit	RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.1	12.1
	Heating Capacity	kW	11.2	11.2	13.0	13.0
	EER/COP	W/W	3.19/3.75	3.19/3.75	2.57/3.37	2.57/3.37
UK	Cooling Total/Sensible	kW	9.5/7.22	9.5/7.22	12.72/9.32	12.72/9.32
	Heating	kW	8.01	8.01	9.3	9.3
	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
Cooling EN14825	Power Input	kW	2.98	2.98	4.71	4.71
	Pdesign	kW	10.00	10.00	6.70	6.70
	SEER/Energy Efficiency Class (or ηsc %)		5.32/A	5.13/A	5.24/206.6	5.24/206.6
Heating EN14825	Seasonal Energy Consumption	kWh/a	682	682	687	687
	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.99	2.99	3.86	3.86
	Pdesign	kW	7.60	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/A+	4.18/A+	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2546	2546	2661	2661
Indoor Data						
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	186 - 150 - 125	194 - 161 - 125	194 - 161 - 125
	High - Medium - Low	m³/h	670 - 540 - 450	670 - 540 - 450	700 - 580 - 450	700 - 580 - 450
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	41 - 36 - 30	41 - 36 - 30
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 49 - 44	55 - 51 - 45	55 - 51 - 45
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	10	10	10	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
	Remote Controller (Infra-Red - hard-wired recommended)		WH-L17SE	WH-L17SE	WH-L17SE	WH-L17SE
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	15.14	3.22	22.78	4.92
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£912	£912	£993	£993
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863
RBC-TRP100E			£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£2,768	£2,932	£2,957	£3,123

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit (continued)

CODE		140		200		230	
Performance							
Indoor Unit 1		RAV-	RM561KRTP-E	RM801KRTP-E	RM801KRTP-E		
Indoor Unit 2		RAV-	RM561KRTP-E	RM801KRTP-E	RM801KRTP-E		
Indoor Unit 3		RAV-	RM561KRTP-E	RM801KRTP-E	RM801KRTP-E		
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E		
Nominal	Cooling Capacity	kW	14.0	20.0	23.0		
	Heating Capacity	kW	16.0	22.4	27.0		
	EER/COP	W/W	2.65/3.30	2.81/3.50	2.41/3.41		
UK	Cooling Total/Sensible	kW	13.30/9.40	19.30/13.30	22.20/14.70		
	Heating	kW	10.45	14.63	17.63		
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0		
	Power Input	kW	4.57	7.12	9.55		
	Pdesign	kW	14.0	20.0	23.5		
	SEER/Energy Efficiency Class (or ηsc %)		4.97/195.8	5.80/229.0	5.41/213.4		
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-		
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5		
	Power Input	kW	4.24	6.40	7.92		
	Pdesign	kW	10.0	20.0	22.0		
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.90/153.0	3.76/147.4	3.63/142.2		
	Seasonal Energy Consumption	kWh/a	-	-	-		
Indoor Data							
Air Flow	High - Medium - Low	l/s	267 - 231 - 189	289 - 253 - 189	289 - 253 - 189		
	High - Medium - Low	m³/h	960 - 830 - 680	1040 - 910 - 680	1040 - 910 - 680		
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	45 - 41 - 35	45 - 41 - 35		
	Power High - Medium - Low	dB(A)	57 - 54 - 51	60 - 56 - 51	60 - 56 - 51		
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250		
	Weight	kg	14	14	14		
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8		
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5		
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E		
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2		
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8		
	Max. Subtractive Separation Between Indoors	m	10	10	10		
	Max. Length Distributor To Furthest Indoor	m	15	20	20		
	Drain Pipe Connection ID/OD	mm	VP16/14	VP16/14	VP16/14		
Power Cable	Indoor to Indoor		3 core + earth	3 core + earth	3 core + earth		
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE	WH-TA09NE		
Outdoor Data							
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20		
Air Flow	High	m³/h - l/s	6180 - 1717	8000 - 2222	9000 - 2500		
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57	57/58		
	Power High Cooling/Heating	dB(A)	68/70	72/74	74/75		
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320	1540 x 900 x 320		
	Weight	kg	99	134	134		
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2		
	Min.-Max. Length	m	5-50	5-100	5-100		
	Maximum Height Difference	m	±30	±30	±30		
	Drain Port Connection	mm	16	16	16		
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9		
	Additional Charge Main Liquid Side	g/m	40	80	80		
	Additional Charge Sub Liquid Side	g/m	20	40	40		
Run Current	Maximum	A	21.7	11.51	15.44		
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth		
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20		
INDOOR RETAIL PRICE			£1,281	£1,380	£1,380		
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558		
RBC-TRP100E			£208	£208	£208		
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59		
SYSTEM RETAIL PRICE			£4,197	£6,199	£6,205		

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Compact Cassette Indoor Unit

CODE			95	95	120	120	140
Performance							
Indoor Unit 1	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	
Indoor Unit 2	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	
Indoor Unit 3	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	
Outdoor Unit	RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	
Nominal	Cooling Capacity	kW	9.5	9.5	12.0	12.0	14.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8	16.0
	EER/COP	W/W	3.17/3.44	3.17/3.44	2.8/3.76	2.8/3.76	2.81/3.48
UK	Cooling Total/Sensible	kW	9.60/7.00	9.60/7.00	10.35/8.37	10.35/8.37	13.30/9.40
	Heating	kW	7.30	7.30	7.68	7.68	10.45
	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	2.6 - 16.0
Cooling EN14825	Power Input	kW	3.00	3.00	4.57	4.57	4.99
	Pdesign	kW	9.50	9.50	12.00	12.00	14.0
	SEER/Energy Efficiency Class		5.50/A	5.50/A	-*	-*	4.92/193.8
Heating EN14825	Seasonal Energy Consumption	kWh/a	597	597	-*	-*	-
	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	2.4 - 19.0
	Power Input	kW	3.26	3.26	3.46	3.46	4.60
	Pdesign	kW	7.40	7.40	8.00	8.00	10.0
	SCOP/Energy Efficiency Class		4.02/A+	4.02/A+	-*	-*	3.98/156.2
	Seasonal Energy Consumption	kWh/a	2616	2616	-*	-*	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	27 x 700 x 700
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	3 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	15.44	5.15	20.75	6.90	21.7
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
* Waiting for published data.							
INDOOR RETAIL PRICE			£2,655	£2,655	£2,688	£2,688	£2,754
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863	£2,649
RBC-TRP100E			£208	£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£4,511	£4,675	£4,652	£4,818	£5,670

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split 4-Way Cassette Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1	RAV-	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2	RAV-	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 3	RAV-	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	3.12/3.61	3.21/3.85	2.81/3.61
UK	Cooling Total/Sensible	kW	13.30/9.40	19.30/15.30	22.20/17.00
	Heating	kW	10.45	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	4.49	6.24	8.19
	Pdesign	kW	14.0	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.25/207.0	6.82/269.8	6.36/251.4
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.43	5.82	7.48
	Pdesign	kW	10.0	22.0	22.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.05/159.0	4.05/159.0	3.91/153.4
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-UM31PGP(W)-E	kg	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20	20
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	8000 - 2222	9000 - 2500
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57	57/58
	Power High Cooling/Heating	dB(A)	68/70	72/74	74/75
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320	1540 x 900 x 320
	Weight	kg	99	134	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	80	80
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	21.7	11.51	15.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,463	£2,748	£2,748
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
RBC-TRP100E			£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£5,379	£7,567	£7,573

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ceiling Indoor Unit

CODE		121	121	140	200	230
Performance						
Indoor Unit 1		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 3		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM801CTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	20.0
	Heating Capacity	kW	12.8	12.8	16.0	22.4
	EER/COP	W/W	2.74/3.74	2.74/3.74	3.01/3.47	2.81/3.50
UK	Cooling Total/Sensible	kW	11.50/8.40	11.50/8.40	13.30/9.30	19.30/13.50
	Heating	kW	9.30	9.30	10.45	14.63
	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	4.6 - 22.4
Cooling EN14825	Power Input	kW	4.67	4.67	4.65	7.12
	Pdesign	kW	12.00	12.00	14.0	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	5.36/211.4	4.99/196.6	5.81/229.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	660	660	-	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	3.48	3.48	4.61	6.40
	Pdesign	kW	8.00	8.00	10.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	3.95/155.0	3.97/148.6
	Seasonal Energy Consumption	kWh/a	2543	2543	-	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	20
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	3 core + earth	3 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717	8000 - 2222
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53	56/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70	72/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1540 x 900 x 320
	Weight	kg	68	69	99	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	35	35	40	80
	Additional Charge Sub Liquid Side	g/m	20	20	20	40
Run Current	Maximum	A	21.40	7.15	21.7	11.51
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,773	£1,773	£1,935	£2,289
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649	£4,552
RBC-TRP100E			£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£3,737	£3,903	£4,851	£7,114

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Slim Ducted Indoor Unit

CODE			95	95	121	121	140
Performance							
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1
Nominal	Cooling Capacity	kW	9.5	9.5	12.1	12.1	14.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8	16.0
	EER/COP	W/W	3.14/3.75	3.14/3.75	2.74/3.61	2.74/3.61	2.81/3.41
UK	Cooling Total/Sensible	kW	9.60/6.80	9.60/6.80	10.35/8.52	10.35/8.52	13.30/9.30
	Heating	kW	8.01	8.01	7.68	7.68	10.45
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0
	Power Input	kW	3.03	3.03	4.67	4.42	4.99
	Pdesign	kW	9.50	9.50	12.00	12.00	14.0
	SEER/Energy Efficiency Class		5.32/A	5.32/A	-*	-*	4.86/191.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	696	696	-*	-*	-
	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0
	Power Input	kW	2.99	2.99	3.60	3.60	4.69
	Pdesign	kW	7.40	7.40	8.00	8.00	10.0
	SCOP/Energy Efficiency Class		4.19/A+	4.19/A+	-*	-*	3.92/153.8
	Seasonal Energy Consumption	kWh/a	2569	2569	-*	-*	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	29 (4-44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	-	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	45 - 43 - 41	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	-	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP20
Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	3 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	14.70	4.90	21.40	7.15	21.7
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
* Waiting for published data.							
INDOOR RETAIL PRICE			£1,845	£1,845	£1,884	£1,884	£1,920
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863	£2,649
RBC-TRP100E			£208	£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£3,701	£3,865	£3,848	£4,014	£4,836

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ducted Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1	RAV-	RM561BTP-E	RM801BTP-E	RM801BTP-E	RM801BTP-E
Indoor Unit 2	RAV-	RM561BTP-E	RM801BTP-E	RM801BTP-E	RM801BTP-E
Indoor Unit 3	RAV-	RM561BTP-E	RM801BTP-E	RM801BTP-E	RM801BTP-E
Outdoor Unit	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.73/3.41	2.81/3.50	2.41/3.41
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/15.00
	Heating	kW	10.45	14.63	17.63
	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
Cooling EN14825	Power Input	kW	5.13	7.12	9.55
	Pdesign	kW	14.0	20.0	23.5
	SEER/Energy Efficiency Class (or η_{sc} %)		4.64/182.6	5.44/214.6	5.28/208.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.69	6.40	7.92
	Pdesign	kW	10.0	22.0	25.0
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		3.73/146.2	3.73/146.2	3.65/143.0
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200	333 - 258 - 200
	High - Medium - Low	m ³ /h	800 - 630 - 480	1200 - 930 - 720	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1000 x 750
	Weight	kg	23	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20	20
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		3 core + earth	3 core + earth	3 core + earth
	Remote Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m ³ /h - l/s	6180 - 1717	8000 - 2222	9000 - 2500
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57	57/58
	Power High Cooling/Heating	dB(A)	68/70	72/74	74/75
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320	1540 x 900 x 320
	Weight	kg	99	134	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	80	80
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	21.7	11.51	15.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£1,731	£2,481	£2,481
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
RBC-TRP100E			£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£4,647	£7,300	£7,306

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Floor-Mounted Cabinet Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1	MMF-	AP0186H1-E	AP0246H1-E	AP0246H1-E	AP0246H1-E
Indoor Unit 2	MMF-	AP0186H1-E	AP0246H1-E	AP0246H1-E	AP0246H1-E
Indoor Unit 3	MMF-	AP0186H1-E	AP0246H1-E	AP0246H1-E	AP0246H1-E
Outdoor Unit	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.97/3.43	3.15/3.97	2.91/3.70
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/14.90
	Heating	kW	10.45	14.63	17.63
	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
Cooling EN14825	Power Input	kW	4.70	6.35	7.90
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
Heating EN14825	Power Input	kW	4.66	5.64	7.30
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
Indoor Data					
Air Flow	High - Medium - Low	l/s	250 - 217 - 17	333 - 275 - 67	333 - 275 - 67
	High - Medium - Low	m³/h	900 - 780 - 660	1200 - 990 - 840	1200 - 990 - 840
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	49 - 45 - 39	49 - 45 - 39
	Power High - Medium - Low	dB(A)	64 - 60 - 55	67 - 63 - 57	67 - 63 - 57
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	47	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20	20
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	6180 - 1717	9180 - 2550	10920 - 3033
Sound	Pressure High Cooling/Heating	dB(A)	51/53	58/60	61/63
	Power High Cooling/Heating	dB(A)	68/70	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	99	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 (3/4) - 1/2	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	90	90
	Additional Charge Sub Liquid Side	g/m	40	45	45
Run Current	Maximum	A	21.85	10.78	15.06
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£4,455	£4,647	£4,647
RBC-CK2 CONVERSION KIT (supplied loose)			£408	£408	£408
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
RBC-TRP100E			£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£7,779	£9,874	£9,880

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Concealed-Chassis Indoor Unit

CODE			140	200
Performance				
Indoor Unit 1		MML-	AP0184BH1-E	AP0244BH1-E
Indoor Unit 2		MML-	AP0184BH1-E	AP0244BH1-E
Indoor Unit 3		MML-	AP0184BH1-E	AP0244BH1-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0
	Heating Capacity	kW	16.0	22.4
	EER/COP	W/W	2.91/3.35	3.14/3.89
UK	Cooling Total/Sensible	kW	13.30/9.40	19.30/13.30
	Heating	kW	10.45	14.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.81	6.37
	Pdesign	kW	-	-
	SEER/Energy Efficiency Class		-	-
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	4.77	5.66
	Pdesign	kW	-	-
	SCOP/Energy Efficiency Class		-	-
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	200 - 167 - 133	267 - 217 - 183
	High - Medium - Low	m³/h	740 - 600 - 490	950 - 790 - 640
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	20
	Drain Pipe Connection	mm	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	6180 - 1717	9180 - 2550
Sound	Pressure High Cooling/Heating	dB(A)	51/53	58/60
	Power High Cooling/Heating	dB(A)	68/70	76/76
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	99	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-50	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	90
	Additional Charge Sub Liquid Side	g/m	40	45
Run Current	Maximum	A	22.06	10.78
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£2,916	£3,033
RBC-CK1 CONVERSION KIT (supplied loose)			£408	£408
OUTDOOR RETAIL PRICE			£2,649	£4,552
RBC-TRP100E			£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£6,240	£8,260

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split High-Wall Indoor Unit

CODE			121	121	140	200	230	
Performance								
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E	
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E	
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E	
Indoor Unit 4		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E	
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E	
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	20.0	23.0	
	Heating Capacity	kW	13.0	13.0	16.0	22.4	27.0	
	EER/COP	W/W	2.57/3.37	2.57/3.37	2.65/3.30	2.81/3.50	2.41/3.41	
UK	Cooling Total/Sensible	kW	12.72/9.32	12.72/9.32	13.30/9.40	19.30/13.30	22.20/14.70	
	Heating	kW	9.3	9.3	10.45	14.63	17.63	
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0	
	Power Input	kW	4.71	4.71	4.57	7.12	9.55	
	Pdesign	kW	6.70	6.70	14.0	20.0	23.5	
	SEER/Energy Efficiency Class (or ηsc %)			5.24/206.6	5.24/206.6	4.97/195.8	5.82/229.8	5.33/210.2
	Seasonal Energy Consumption	kWh/a	687	687	-	-	-	
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5	
	Power Input	kW	3.86	3.86	4.24	6.40	7.92	
	Pdesign	kW	8.00	8.00	10.0	20.0	22.0	
	SCOP/Energy Efficiency Class (or ηsc(A) %)			4.19/164.6	4.19/164.6	3.90/153.0	3.76/147.4	3.62/141.8
	Seasonal Energy Consumption	kWh/a	2661	2661	-	-	-	
Indoor Data			RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189	289 - 253 - 189	
	High - Medium - Low	m³/h	670 - 540 - 450	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680	1040 - 910 - 680	
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36	45 - 41 - 35	
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51	60 - 56 - 51	
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	
	Weight	kg	10	10	10	14	14	
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	
	Outdoor Connection To Distributor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2	
	Max. Subtractive Separation Between Indoors	m	5	5	5	6	6	
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15	20	20	
	Max. Distance From Second Distributor To Indoors	m	10	10	10	10	10	
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16	VP16	VP16	
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-L17SE	WH-L17SE	WH-L17SE	WH-L17SE	
Outdoor Data			RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20	
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717	8000 - 2222	9000 - 2500	
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53	56/57	57/58	
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70	72/74	74/75	
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1540 x 900 x 320	1540 x 900 x 320	
	Weight	kg	68	69	99	134	134	
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2	
	Min.-Max. Length	m	5-50	5-50	5-50	5-100	5-100	
	Maximum Height Difference	m	±30	±30	±30	±30	±30	
	Drain Port Connection	mm	16	16	16	16	16	
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R410A - 3.1	R410A - 5.9	R410A - 5.9	
	Additional Charge Main Liquid Side	g/m	35	35	40	80	80	
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20	40	40	
	Additional Charge Sub Liquid Side	g/m	20	20	20	40	40	
Run Current	Maximum	A	22.78	4.92	21.7	11.51	15.44	
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20	
INDOOR RETAIL PRICE			£1,216	£1,216	£1,324	£1,708	£1,840	
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649	£4,552	£4,558	
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59	
SYSTEM RETAIL PRICE			£2,972	£3,138	£4,032	£6,319	£6,457	

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Compact Cassette Indoor Unit

CODE		121	121	140	200
Performance					
Indoor Unit 1	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 3	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 4	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit	RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	12.1	12.1	14.0
	Heating Capacity	kW	12.8	12.8	16.0
	EER/COP	W/W	2.8/3.76	2.8/3.76	2.81/3.48
					2.81/3.50
UK	Cooling Total/Sensible	kW	10.35/8.37	10.35/8.37	13.30/9.40
	Heating	kW	7.68	7.68	10.45
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	2.6 - 16.0
	Power Input	kW	4.57	4.57	4.99
	Pdesign	kW	12.00	12.00	14.0
	SEER/Energy Efficiency Class		-*	-*	4.92/193.8
	Seasonal Energy Consumption	kWh/a	-*	-*	6.24/246.6
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	2.4 - 19.0
	Power Input	kW	3.46	3.46	4.60
	Pdesign	kW	8.00	8.00	10.0
	SCOP/Energy Efficiency Class		-*	-*	3.98/156.2
	Seasonal Energy Consumption	kWh/a	-*	-*	4.03/158.2
Indoor Data		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	15 x 620 x 620	15 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP25
					VP25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	35	40
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	20.75	6.9	21.7
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
* Waiting for published data.					
INDOOR RETAIL PRICE			£3,540	£3,540	£3,584
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£5,296	£5,462	£6,292
					£8,283

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split 4-Way Cassette Indoor Unit

CODE		200		230		
Performance						
Indoor Unit 1		RAV-	RM561UTP-E	RM801UTP-E		
Indoor Unit 2		RAV-	RM561UTP-E	RM801UTP-E		
Indoor Unit 3		RAV-	RM561UTP-E	RM801UTP-E		
Indoor Unit 4		RAV-	RM561UTP-E	RM801UTP-E		
Outdoor Unit		RAV-	SM2246AT8-E	SM2806AT8-E		
Nominal	Cooling Capacity	kW	20.0	23.0		
	Heating Capacity	kW	22.4	27.0		
	EER/COP	W/W	3.21/3.85	2.81/3.48		
UK	Cooling Total/Sensible	kW	19.30/15.30	22.20/17.00		
	Heating	kW	17.63	14.63		
Cooling EN14825	Range Min. - Max.	kW	4.6 - 22.4	4.6 - 27.0		
	Power Input	kW	6.24	8.19		
	Pdesign	kW	20.0	23.5		
	SEER/Energy Efficiency Class (or ηsc %)			6.82/159.0	6.28/248.2	
	Seasonal Energy Consumption	kWh/a	-	-		
Heating EN14825	Range Min. - Max.	kW	4.6 - 25.0	4.6 - 31.5		
	Power Input	kW	5.82	7.76		
	Pdesign	kW	20.0	22.0		
	SCOP/Energy Efficiency Class (or ηsc(A) %)			4.05/159.0	3.90/153.0	
	Seasonal Energy Consumption	kWh/a	-	-		
Indoor Data		RAV-	RM561UTP-E	RM801UTP-E		
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225		
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810		
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28		
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43		
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840		
	Weight	kg	20	20		
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950		
	Weight RBC-UM31PGP(W)-E	kg	4.2	4.2		
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8		
	Height Difference Indoor To Indoor	m	±0.5	±0.5		
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1/2 - 1/4		
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8		
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2		
	Max. Subtractive Separation Between Indoors	m	6	6		
	Max. Length Main Distributor To Furthest Indoor	m	20	20		
	Max. Distance From Second Distributor To Indoors	m	10	10		
	Drain Pipe Connection OD/ID	mm	VP25	VP25		
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth		
Remote Controller			RBC-AMT32E	RBC-AMT32E		
Outdoor Data		RAV-	SM2246AT8-E	SM2806AT8-E		
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20		
Air Flow	High	m³/h - l/s	8000 - 2222	9000 - 2500		
Sound	Pressure High Cooling/Heating	dB(A)	56/57	57/58		
	Power High Cooling/Heating	dB(A)	72/74	74/75		
Unit	Height x Width x Depth	mm	1540 x 900 x 320	1540 x 900 x 320		
	Weight	kg	134	134		
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2		
	Min.-Max. Length	m	5-100	5-100		
	Maximum Height Difference	m	±30	±30		
	Drain Port Connection	mm	16	16		
Refrigerant	Gas - Base Charge	kg	R410A - 5.9	R410A - 5.9		
	Additional Charge Main Liquid Side	g/m	80	80		
	Additional Charge Second Dist. Liquid Side	g/m	40	40		
	Additional Charge Sub Liquid Side	g/m	20	40		
Run Current	Maximum	A	10.09	13.24		
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth		
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20		
INDOOR RETAIL PRICE			£3,284	£3,664		
OUTDOOR RETAIL PRICE			£4,552	£4,558		
REMOTE CONTROLLER RBC-AMT32E			£59	£59		
SYSTEM RETAIL PRICE			£7,895	£8,281		

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ceiling Indoor Unit

CODE		140	200	230
Performance				
Indoor Unit 1	RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 2	RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 3	RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 4	RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E
Outdoor Unit	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0
	Heating Capacity	kW	16.0	22.4
	EER/COP	W/W	3.01/3.47	2.81/3.50
				2.41/3.41
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50
	Heating	kW	10.45	14.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.65	7.12
	Pdesign	kW	14.0	20.0
	SEER/Energy Efficiency Class (or ηsc %)		4.99/196.6	5.90/233.0
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	4.61	6.40
	Pdesign	kW	10.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.95/155.0	3.79/148.6
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690
	Weight	kg	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	6
	Max. Length Main Distributor To Furthest Indoor	m	15	20
	Max. Distance From Second Distributor To Indoors	m	10	15
Power Cable	Indoor to Indoor	mm	VP20	VP20
	Remote Controller		2 core + earth	2 core + earth
			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	8000 - 2222
Sound	Pressure High Cooling/Heating	dB(A)	51/53	56/57
	Power High Cooling/Heating	dB(A)	68/70	72/74
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1540 x 900 x 320
	Weight	kg	99	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1 1/8 - 1/2
	Min.-Max. Length	m	5-50	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	80
	Additional Charge Second Dist. Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	21.7	11.51
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16
				380-415/3/50-20
INDOOR RETAIL PRICE		£2,364	£2,580	£3,052
OUTDOOR RETAIL PRICE		£2,649	£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E		£59	£59	£59
SYSTEM RETAIL PRICE		£5,072	£7,191	£7,669

For Features and Accessories, please refer to the individual single-split system units.

DIGITAL INVERTER



Quad-Split Slim Ducted Indoor Unit

CODE		121	121	140	200	
Performance						
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 4		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	SM1603AT-E1	SM2246AT8-E
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	20.0
	Heating Capacity	kW	12.8	12.8	16.0	22.4
	EER/COP	W/W	2.74/3.61	2.74/3.61	2.81/3.41	2.81/3.50
UK	Cooling Total/Sensible	kW	10.35/8.52	10.35/8.52	13.30/9.30	19.30/13.50
	Heating	kW	7.68	7.68	10.45	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.67	4.42	4.99	7.12
	Pdesign	kW	12.00	12.00	14.0	20.0
	SEER/Energy Efficiency Class		-*	-*	4.86/191.4	5.65/223.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	-*	-*	-	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	3.60	3.60	4.69	6.40
	Pdesign	kW	8.00	8.00	10.0	20.0
	SCOP/Energy Efficiency Class		-*	-*	3.92/158.8	3.86/151.4
	Seasonal Energy Consumption	kWh/a	-*	-*	-	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1 1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15	20
	Max. Distance From Second Distributor To Indoors	m	10	10	10	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP20	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	43 to -15/15 to -15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6180 - 1717	8000 - 2222
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	51/53	56/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	68/70	72/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1540 x 900 x 320
	Weight	kg	68	69	99	134
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R410A - 3.1	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	35	35	40	80
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	21.4	7.15	21.7	11.51
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16
* Waiting for published data.						
INDOOR RETAIL PRICE			£2,460	£2,460	£2,512	£2,560
OUTDOOR RETAIL PRICE			£1,697	£1,863	£2,649	£4,552
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£4,216	£4,382	£5,220	£7,171

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ducted Indoor Unit

CODE			200	230
Performance				
Indoor Unit 1	RAV-		RM561BTP-E	RM801BTP-E
Indoor Unit 2	RAV-		RM561BTP-E	RM801BTP-E
Indoor Unit 3	RAV-		RM561BTP-E	RM801BTP-E
Indoor Unit 4	RAV-		RM561BTP-E	RM801BTP-E
Outdoor Unit	RAV-		SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	20.0	23.0
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	2.81/3.50	2.41/3.41
UK	Cooling Total/Sensible	kW	19.30/13.50	22.20/15.00
	Heating	kW	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	7.12	9.55
	Pdesign	kW	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.39/212.6	5.22/205.8
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	6.40	7.92
	Pdesign	kW	20.0	22.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.73/146.2	3.65/143.0
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200
	High - Medium - Low	m³/h	798 - 630 - 480	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120-30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1 1/8 - 1/2	1 1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	6	6
	Max. Length Main Distributor To Furthest Indoor	m	20	20
	Max. Distance From Second Distributor To Indoors	m	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	8000 - 2222	9000 - 2500
Sound	Pressure High Cooling/Heating	dB(A)	56/57	57/58
	Power High Cooling/Heating	dB(A)	72/74	74/75
Unit	Height x Width x Depth	mm	1540 x 900 x 320	1540 x 900 x 320
	Weight	kg	134	134
Pipe Connection	Flare Connections (gas - liquid)	inch	1 1/8 - 1/2	1 1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	80	80
	Additional Charge Second Dist. Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	11.51	15.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,308	£3,308
OUTDOOR RETAIL PRICE			£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£6,919	£7,925

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Floor-Mounted Cabinet Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E
Indoor Unit 2		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E
Indoor Unit 3		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E
Indoor Unit 4		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.94/3.39	3.17/4.00	2.92/3.72
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/14.90
	Heating	kW	10.45	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	4.76	6.30	7.85
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.72	5.59	7.25
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
Seasonal Energy Consumption	kWh/a	-	-	-	
Indoor Data					
Air Flow	High - Medium - Low	l/s	250 - 217 - 17	250 - 217 - 17	333 - 275 - 67
	High - Medium - Low	m³/h	900 - 780 - 660	900 - 780 - 660	1200 - 990 - 840
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	46 - 42 - 37	49 - 45 - 39
	Power High - Medium - Low	dB(A)	64 - 60 - 55	64 - 60 - 55	67 - 63 - 57
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	46	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	6	6
	Max. Length Main Distributor To Furthest Indoor	m	15	20	20
	Max. Distance From Second Distributor To Indoors	m	10	15	15
Power Cable	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	6180 - 1717	9180 - 2550	10920 - 3033
Sound	Pressure High Cooling/Heating	dB(A)	51/53	58/60	61/63
	Power High Cooling/Heating	dB(A)	68/70	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	99	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 (3/4) - 1/2	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	90	90
	Additional Charge Second Dist. Liquid Side	g/m	40	45	45
	Additional Charge Sub Liquid Side	g/m	20	20	45
Run Current	Maximum	A	22.23	10.78	15.06
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£5,604	£5,940	£6,196
RBC-CK2 CONVERSION KIT (supplied loose)			£544	£544	£544
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£8,856	£11,095	£11,357

For Features and Accessories, please refer to the individual single-split system units.



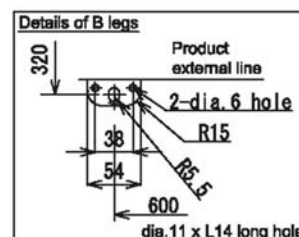
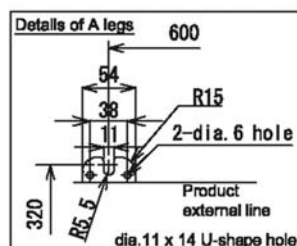
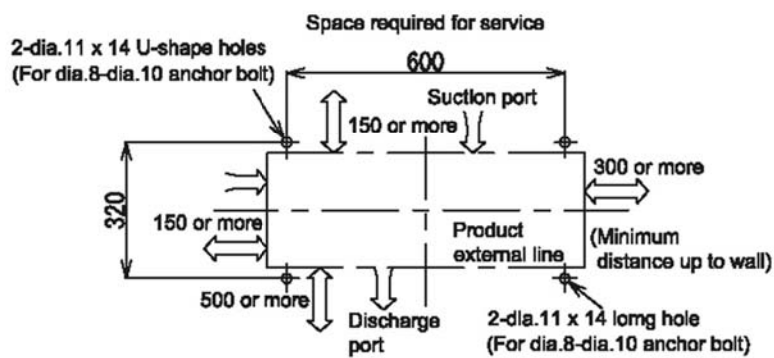
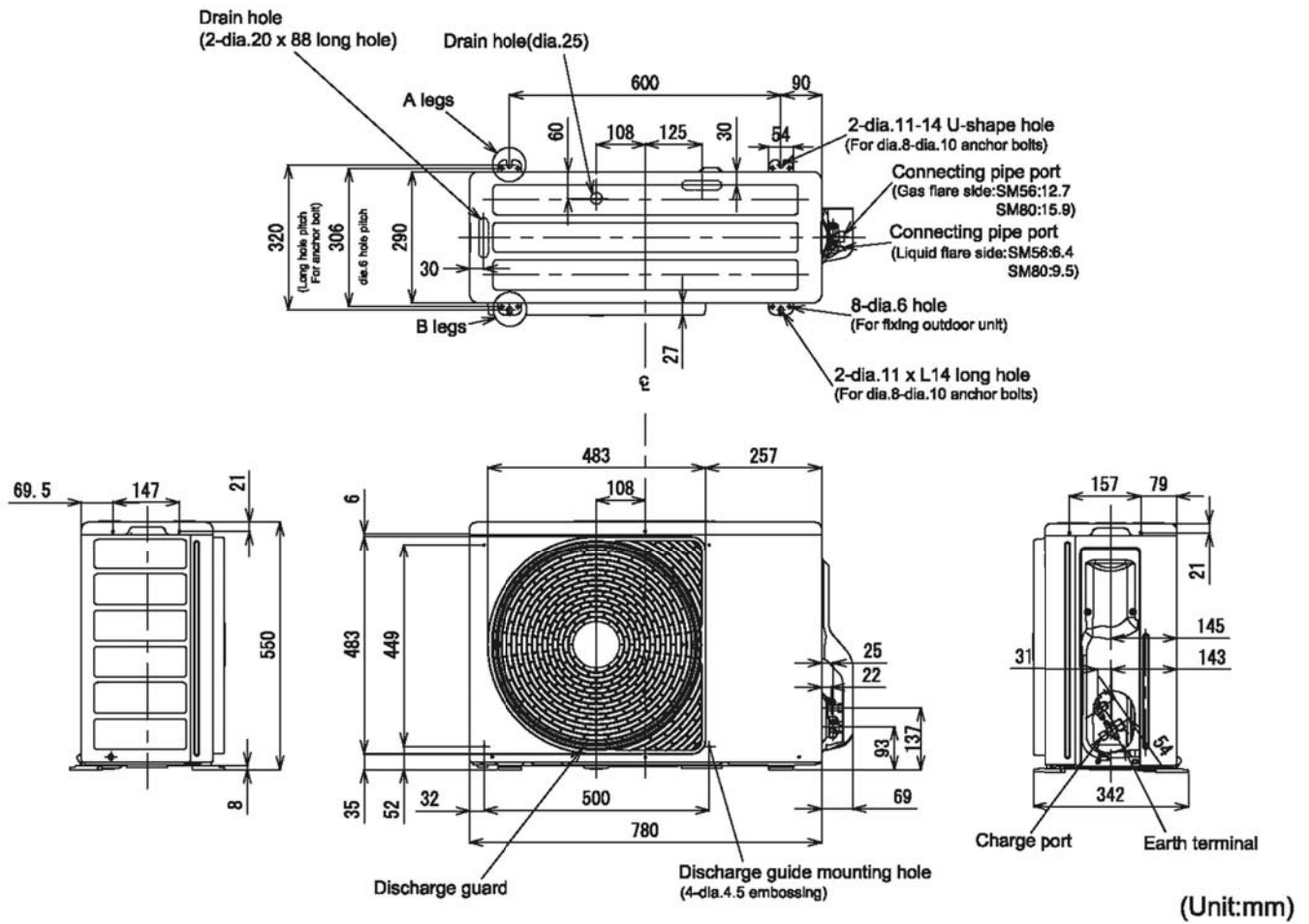
Quad-Split Concealed-Chassis Indoor Unit

CODE			140	200	230
Performance					
Indoor Unit 1		MML-	AP0124BH1-E	AP0184BH1-E	AP0244BH1-E
Indoor Unit 2		MML-	AP0124BH1-E	AP0184BH1-E	AP0244BH1-E
Indoor Unit 3		MML-	AP0124BH1-E	AP0184BH1-E	AP0244BH1-E
Indoor Unit 4		MML-	AP0124BH1-E	AP0184BH1-E	AP0244BH1-E
Outdoor Unit		RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Nominal	Cooling Capacity	kW	14.0	20.0	23.0
	Heating Capacity	kW	16.0	22.4	27.0
	EER/COP	W/W	2.94/3.39	3.17/4.00	2.92/3.72
UK	Cooling Total/Sensible	kW	13.30/9.30	19.30/13.50	22.20/14.90
	Heating	kW	10.45	14.63	17.63
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	4.76	6.30	7.85
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
	Power Input	kW	4.72	5.59	7.25
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	133 - 117 - 83	200 - 167 - 133	267 - 217 - 183
	High - Medium - Low	m³/h	460 - 400 - 300	740 - 600 - 490	950 - 790 - 640
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	36 - 34 - 32	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	51 - 49 - 47	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	21	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	6	6
	Max. Length Main Distributor To Furthest Indoor	m	15	20	20
	Max. Distance From Second Distributor To Indoors	m	10	15	15
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Air Flow	High	m³/h - l/s	6180 - 1717	9180 - 2550	10920 - 3033
Sound	Pressure High Cooling/Heating	dB(A)	51/53	58/60	61/63
	Power High Cooling/Heating	dB(A)	68/70	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	99	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	1-1/8 (3/4) - 1/2	1-1/8 (3/4) - 1/2
	Min.-Max. Length	m	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 5.9	R410A - 5.9
	Additional Charge Main Liquid Side	g/m	40	90	90
	Additional Charge Second Dist. Liquid Side	g/m	40	45	45
	Additional Charge Sub Liquid Side	g/m	20	20	45
Run Current	Maximum	A	22.23	10.78	15.06
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£3,500	£3,888	£4,044
RBC-CK1 CONVERSION KIT (supplied loose)			£544	£544	£544
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£6,752	£9,043	£9,205

For Features and Accessories, please refer to the individual single-split system units.

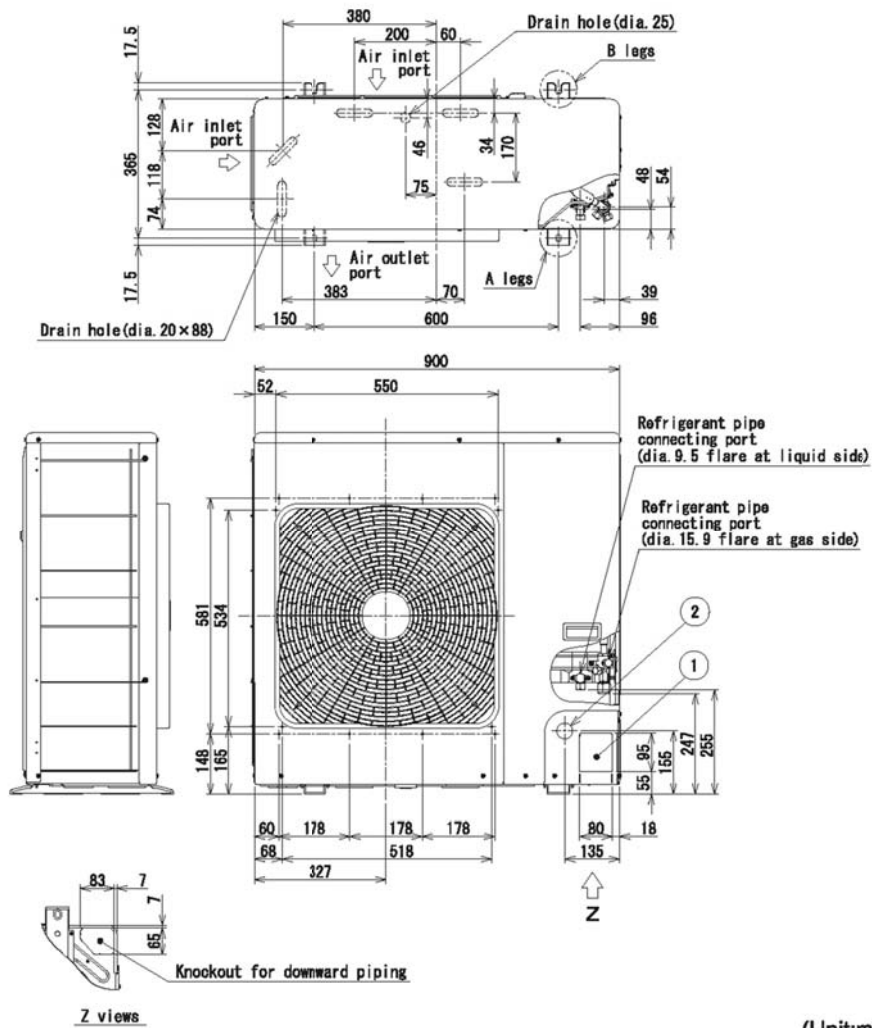


Dimensions - RAV-GM301ATP-E, RAV-GM401ATP-E - R32
RAV-GM561ATP-E, RAV-GM801ATP-E - R32

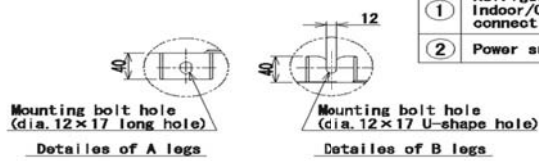




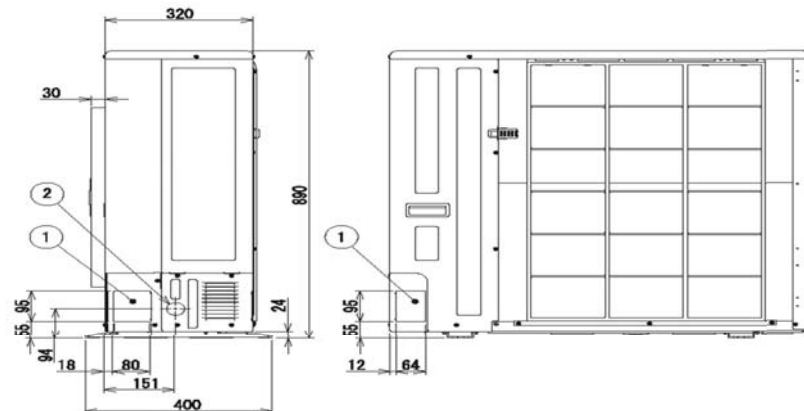
Dimensions - RAV-GM1101ATP-E, RAV-GM1401ATP-E - R32



(Unit:mm)

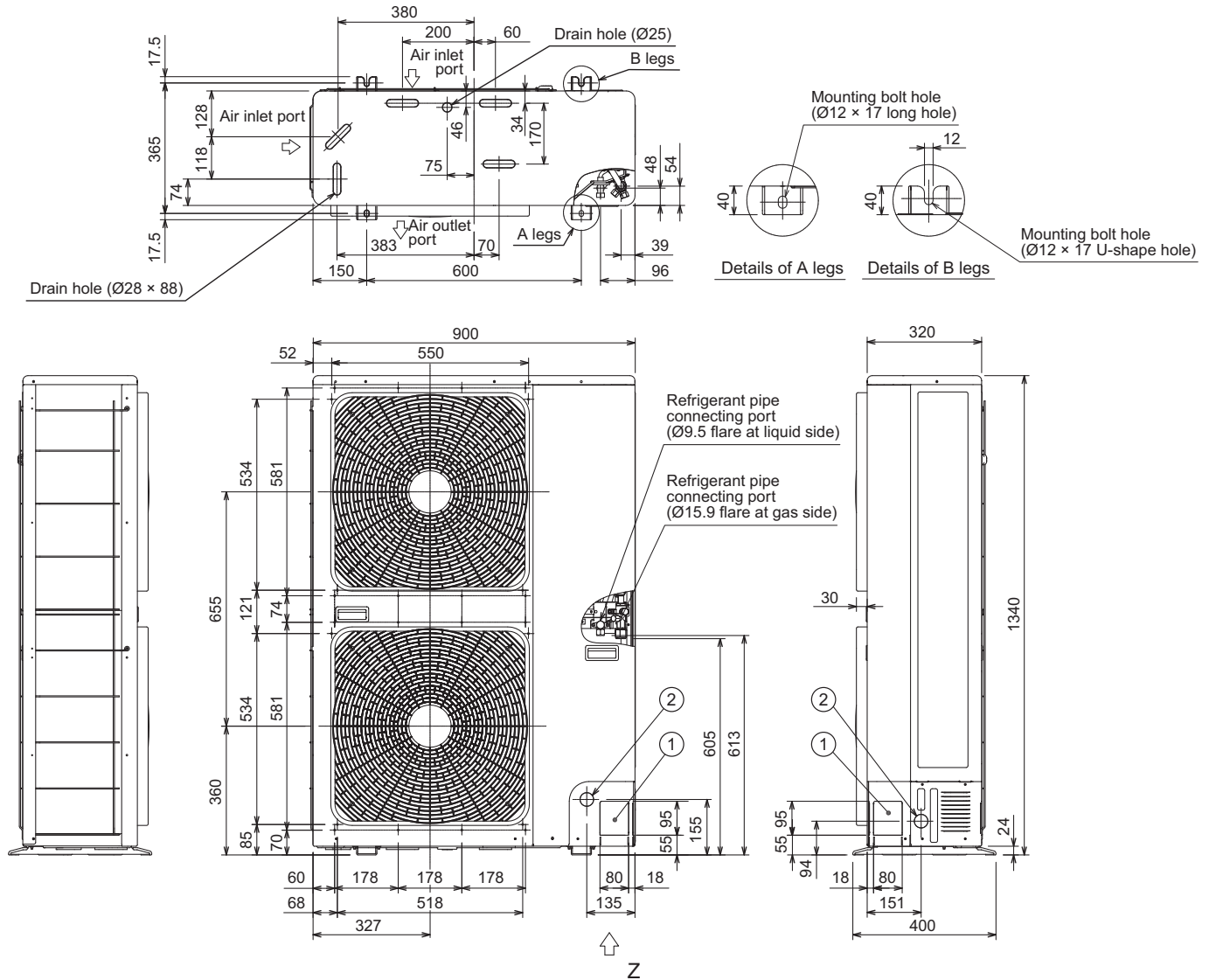


	Name	Note
①	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	—
②	Power supply inlet hole	dia. 38 Knockout hole

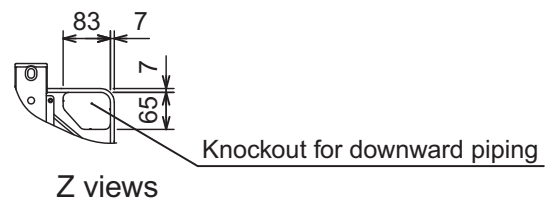




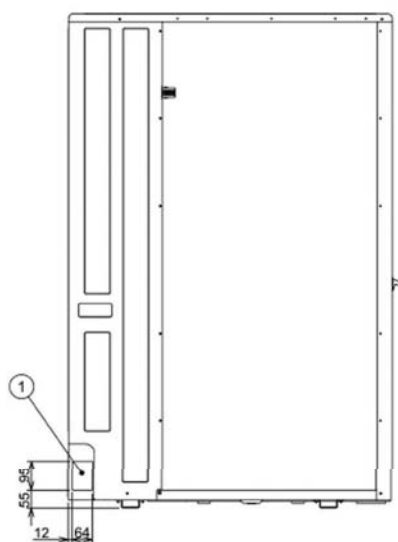
Dimensions - RAV-SM1603AT-E1 - R410A



	Name	Note
①	Refrigerant piping hole Indoor/Outdoor unit connecting wire inlet hole	—
②	Power supply inlet hole	Ø38 Knockout hole



RAV DI



Diameter of pipe connecting port		Diameter of connecting pipe	
Liquid side	Gas side	Liquid side	Gas side
Ø 12.7	Ø 19.1	Ø 12.7	Ø 28.6

88



High-Wall Indoor Unit

CODE			50	71
Performance				
Indoor Unit		RAV-	RM561KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E
Nominal	Cooling Capacity	kW	5.0	7.1
	Heating Capacity	kW	5.6	8.0
	EER/COP	W/W	-*	-*
UK	Cooling Total/Sensible	kW	-*	-*
	Heating	kW	3.55	5.07
Cooling EN14825	Range Min. - Max.	kW	1.2-5.6	1.9-8.0
	Power Input	kW	-*	-*
	Pdesign	kW	5.00	7.10
	SEER/Energy Efficiency Class		7.59/A++	7.34/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	230	338
	Range Min. - Max.	kW	-*	-*
	Power Input	kW	-*	-*
	Pdesign	kW	3.80	5.10
	SCOP/Energy Efficiency Class		4.17/A+	4.13/A+
	Seasonal Energy Consumption	kWh/a	1274	1725
Indoor Data				
Air Flow	High - Medium - Low	l/s	267 - 230 - 188	288 - 253 - 272
	High - Medium - Low	m³/h	960 - 828 - 678	1038 - 912 - 978
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250	3180
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48
	Power High Cooling/Heating	dB(A)	63/65	63/65
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370
	Weight	kg	45	74
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	1.35/20	1.9/30
	Additional Charge Liquid Side	g/m	20	35
Run Current	Maximum	A	6.13	10.88
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16
* Waiting for published data.				
INDOOR RETAIL PRICE			£427	£460
OUTDOOR RETAIL PRICE			£1,145	£1,869
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,572	£2,329

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Wall installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Remote control included



Smart Cassette Indoor Unit

CODE		50	71	100	125
Performance					
Indoor Unit		RAV-	GM561UT-E	GM801UT-E	GM1101UT-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0
	Heating Capacity	kW	5.6	8.0	11.2
	EER/COP	W/W	3.29/4.34	5.18/5.52	5.26/5.14
UK	Cooling Total/Sensible	kW	4.8/4.0	7.4/6.2	9.5/8.0
	Heating	kW	3.55	5.25	8.00
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0
	Power Input	kW	1.52	1.37	1.90
	Pdesign	kW	5.00	7.10	10.00
SEER/Energy Efficiency Class (or ηsc %)			8.07 /A++	9.40/A+++	8.80/A+++
Seasonal Energy Consumption		kWh/a	217	264	398
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0
	Power Input	kW	1.61	1.45	2.18
	Pdesign	kW	3.80	5.10	9.20
SCOP/Energy Efficiency Class (or ηsc(A) %)			5.01/A++	5.51/A+++	5.00/A++
Seasonal Energy Consumption		kWh/a	1061	1294	2573

Indoor Data		RAV-	GM561UT-E	GM801UT-E	GM1101UT-E	GM1401UT-E
Air Flow	High - Medium - Low	l/s	292 - 250 - 208	533 - 36 - 225	625 - 458 - 292	625 - 475 - 325
	High - Medium - Low	m³/h	1050 - 900 - 750	1920 - 129 - 810	2250 - 1650 - 1050	2250 - 1710 - 1170
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 26	42 - 35 - 27	48 - 40 - 31	48 - 41 - 33
	Power High - Medium - Low	dB(A)	48 - 45 - 43	56 - 49 - 43	61 - 54 - 46	61 - 55 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U41PG(W)-E	kg	5	5	5	5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	GP1401AT-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6960 - 1934
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	50/51
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	67/68
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	45	74	104	104
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 3.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35
Run Current	Maximum	A	7.66	7.01	10.43	14.55
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-25

INDOOR RETAIL PRICE	£960	£1,142	£1,166	£1,193
OUTDOOR RETAIL PRICE	£1,145	£1,869	£2,330	£2,564
REMOTE CONTROLLER RBC-AMS5E-ES	£113	£113	£113	£113
SYSTEM RETAIL PRICE	£2,218	£3,124	£3,609	£3,870

Accessories

TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£76
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
RBC-AX41U(W)-E	Remote Controller	Wireless Infra-red controller and receiver	£160



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Standard 600 x 600 ceiling size



Automatic restart



Louvre control



Low ambient cooling to -15°C DB



Compact Cassette Indoor Unit

CODE		50	
Performance			
Indoor Unit		RAV-	RM561MUT-E
Outdoor Unit		RAV-	GP561ATP-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.3
	EER/COP	W/W	3.21/3.50
UK	Cooling Total/Sensible	kW	4.8/3.6
	Heating	kW	3.55
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6
	Power Input	kW	1.56
	Pdesign	kW	5.00
	SEER/Energy Efficiency Class		6.02/A+
	Seasonal Energy Consumption	kWh/a	291
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3
	Power Input	kW	1.47
	Pdesign	kW	3.80
	SCOP/Energy Efficiency Class		4.30/A+
	Seasonal Energy Consumption	kWh/a	1237
Indoor Data		RAV-	RM561MUT-E
Air Flow	High - Medium - Low	l/s	222 - 187 - 152
	High - Medium - Low	m³/h	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	44 - 39 - 35
	Power High - Medium - Low	dB(A)	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	15
Panel	Height x Width x Depth	mm	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 -1/4
	Drain Pipe Connection OD/ID	mm	VP26/20
Remote Controller			RBC-AMT32E
Outdoor Data		RAV-	GP561ATP-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625
Sound	Pressure High Cooling/Heating	dB(A)	46/48
	Power High Cooling/Heating	dB(A)	63/65
Unit	Height x Width x Depth	mm	630 x 799 x 299
	Weight	kg	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 -1/4
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20
	Additional Charge Liquid Side	g/m	20
Run Current	Maximum	A	7.68
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16
INDOOR RETAIL PRICE			£918
OUTDOOR RETAIL PRICE			£1,145
REMOTE CONTROLLER RBC-AMT32E			£59
SYSTEM RETAIL PRICE			£2,122

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£76



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Standard 600 x 600 ceiling size



Automatic restart



Louvre control



Low ambient cooling to -15°C DB



4-Way Cassette Indoor Unit

CODE			50	71	100	125	
Performance							
Indoor Unit		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1401UTP-E	
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	GP1401AT-E	
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	12.5	
	Heating Capacity	kW	5.6	8.0	11.2	14.0	
UK	EER/COP	W/W	4.10/4.31	4.49/4.52	4.69/4.79	4.30/4.61	
	Cooling Total/Sensible	kW	4.8/3.9	7.4/6.2	9.5/7.9	11.9/8.8	
Cooling EN14825	Heating	kW	3.55	5.25	8.00	9.76	
	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	3.1 - 14.0	
	Power Input	kW	1.22	1.58	2.13	3.16	
	Pdesign	kW	5.00	7.10	10.00	12.50	
	SEER/Energy Efficiency Class (or ηsc %)		7.61/A++	8.80/A+++	8.65/A+++	8.15/323	
	Seasonal Energy Consumption	kWh/a	230	282	405	920	
	Heating EN14825	Range Min. - Max.	kW	0.9 - 8.1	1.3 - 11.3	2.6 - 13.0	2.6 - 16.5
	Power Input	kW	1.30	1.77	2.34	3.21	
	Pdesign	kW	3.80	5.10	9.20	9.60	
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.96/A+	5.22/A+++	4.73/A++	4.72/185.8	
	Seasonal Energy Consumption	kWh/a	1071	1367	2719	2844	

Indoor Data		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1401UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225	558 - 400 - 325	583 - 400 - 342
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810	2010 - 1440 - 1170	2100 - 1440 - 1230
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28	43 - 38 - 33	44 - 38 - 34
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43	56 - 53 - 48	59 - 53 - 49
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	GP1401AT-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6960 - 1934
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	50/51
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	67/68
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	45	74	104	104
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 3.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35
Run Current	Maximum	A	6.33	8.56	11.20	15.36
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-25

INDOOR RETAIL PRICE	£821	£916	£999	£1,032
OUTDOOR RETAIL PRICE	£1,145	£1,869	£2,453	£2,562
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£2,025	£2,844	£3,511	£3,653

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Auto-diagnosis



Built-in drain pump



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Louvre control



Chargeless



Wired controller



Individual louvre control



4-Way Cassette Indoor Unit (continued)

CODE			100	125	140
Performance					
Indoor Unit		RAV-	RM1101UTP-E	RM1401UTP-E	RM1604UTP-E
Outdoor Unit		RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	12.5	14.0
	Heating Capacity	kW	11.2	14.0	16.0
	EER/COP	W/W	4.22/4.63	3.61/4.79	3.12/3.72
UK	Cooling Total/Sensible	kW	9.70/7.40	12.10/8.40	13.50/9.00
	Heating	kW	7.31	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.37	3.46	4.49
	Pdesign	kW	10.00	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		6.57/A++	6.82/269.8	6.65/263.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	532	-	-
	Range Min. - Max.	kW	2.4 - 15.6	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.42	3.42	4.30
	Pdesign	kW	11.60	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.28/A++	4.29/168.6	4.24/166.6
	Seasonal Energy Consumption	kWh/a	3795	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	558 - 400 - 325	583 - 400 - 342	583 - 400 - 342
	High - Medium - Low	m³/h	2010 - 1440 - 1170	2100 - 1440 - 1230	2100 - 1440 - 1230
Sound	Pressure High - Medium - Low	dB(A)	43 - 38 - 33	44 - 38 - 34	44 - 38 - 34
	Power High - Medium - Low	dB(A)	58 - 53 - 48	59 - 53 - 49	59 - 53 - 49
Unit	Height x Width x Depth	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	24	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6060 - 1683	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R410A - 3.1/30	R410A - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	40	40	40
Run Current	Maximum	A	3.72	5.42	6.66
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£999	£1,032	£1,156
OUTDOOR RETAIL PRICE			£2,744	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£3,802	£3,944	£4,231

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Self-cleaning



Automatic restart



Auto-diagnosis



Single-split



Louvre control



Individual louvre control



Built-in drain pump



Low ambient cooling to -15°C DB



Chargeless



Wired controller



Ceiling Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		RAV-	RM561CTP-E	RM801CTP-E	RM1101CTP-E	RM1101CTP-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	3.65/4.03	4.44/4.44	4.48/4.71	4.22/4.43
UK	Cooling Total/Sensible	kW	4.8/3.9	7.4/5.5	9.5/7.9	9.50/7.20
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.37	1.60	2.23	2.37
	Pdesign	kW	5.00	6.90	10.00	10.00
	SEER/Energy Efficiency Class (or ηsc %)		6.76/A++	7.95/A++	8.23/A++	6.35/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	259	312	425	551
	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0
	Power Input	kW	1.39	1.80	2.38	2.53
	Pdesign	kW	3.80	6.80	7.60	11.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.7/A++	5.05/A++	4.72/A++	4.41/A+
	Seasonal Energy Consumption	kWh/a	1130	1412	2726	3685

Indoor Data		RAV-	RM561CTP-E	RM801CTP-E	RM1101CTP-E	RM1101CTP-E
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	392 - 278 - 208	517 - 375 - 283	517 - 375 - 283
	High - Medium - Low	m³/h	900 - 720 - 540	1410 - 1000 - 750	1860 - 1350 - 1020	1860 - 1350 - 1020
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	41 - 36 - 29	44 - 38 - 32	44 - 38 - 32
	Power High - Medium - Low	dB(A)	52 - 50 - 43	56 - 51 - 44	59 - 53 - 47	59 - 53 - 47
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	23	29	37	37
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	20	35	35	40
Run Current	Maximum	A	6.71	8.70	11.39	3.72
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£645	£763	£833	£833
OUTDOOR RETAIL PRICE	£1,145	£1,869	£2,330	£2,744
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£1,849	£2,691	£3,222	£3,636

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ceiling Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401CTP-E	RM1401CTP-E	SM1608CTP-E
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	4.30/4.61	3.36/3.93	3.11/3.71
UK	Cooling Total/Sensible	kW	11.9/8.9	11.90/8.70	13.30/9.30
	Heating	kW	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.58	3.72	4.50
	Pdesign	kW	12.00	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		7.58/300.2	6.17/243.8	6.08/240.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	989	-	-
	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.59	3.56	4.31
	Pdesign	kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.71/185.4	4.20/165.0	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2852	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	567 - 425 - 333	567 - 425 - 333	567 - 425 - 333
	High - Medium - Low	m³/h	2040 - 1530 - 1200	2040 - 1530 - 1200	2040 - 1530 - 1200
Sound	Pressure High - Medium - Low	dB(A)	46 - 41 - 35	46 - 41 - 35	46 - 42 - 36
	Power High - Medium - Low	dB(A)	61 - 56 - 50	61 - 56 - 50	61 - 57 - 51
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	37	37	35
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP20
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1934	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 3.1/30	R410A - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	A	17.18	5.42	6.66
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,049	£1,049	£1,146
OUTDOOR RETAIL PRICE			£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£3,672	£3,961	£4,221

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ducted Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	3.29/3.48	4.36/4.32	4.17/4.10	3.79/4.04
UK	Cooling Total/Sensible	kW	4.8/4.0	7.4/5.3	9.5/7.9	9.70/7.20
	Heating	kW	3.55	5.15	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.52	1.63	2.40	2.64
	Pdesign	kW	5.00	6.70	10.00	10.00
	SEER/Energy Efficiency Class (or ηsc %)		5.6/A+	7.5/A++	6.6/A++	5.65/A+
	Seasonal Energy Consumption	kWh/a	312	466	696	619
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0	2.4 - 15.6
	Power Input	kW	1.61	1.85	2.73	2.77
	Pdesign	kW	3.80	6.70	7.60	10.80
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.24/A+	4.81/A++	4.24/A+	3.87/A
	Seasonal Energy Consumption	kWh/a	1254	1484	3032	3906

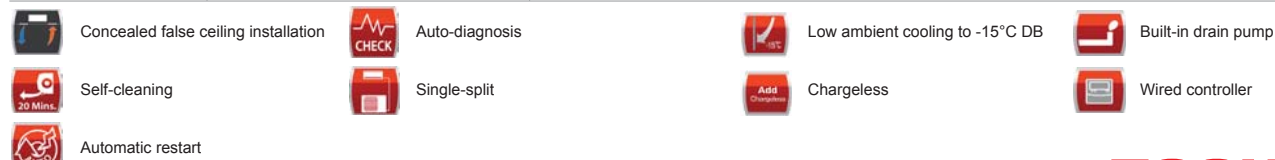
Indoor Data		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Air Flow	High - Medium - Low	l/s	222 - 183 - 150	333 - 258 - 200	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	800 - 660 - 540	1200 - 930 - 720	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	23	30	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	20	35	35	40
Run Current	Maximum	A	7.66	8.95	13.06	3.72
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£577	£827	£945	£945
OUTDOOR RETAIL PRICE	£1,145	£1,869	£2,330	£2,744
REMOTE CONTROLLER RBC-AMT32E	£59	£59	£59	£59
SYSTEM RETAIL PRICE	£1,781	£2,755	£3,334	£3,748

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM110#_160#BTP-E	£147





Ducted Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401BTP-E	RM1401BTP-E	SM1606BTP-E1
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
UK	EER/COP	W/W	4.30/4.61	3.24/3.81	3.01/3.48
	Cooling Total/Sensible	kW	11.9/9.0	12.10/9.00	13.50/10.10
Cooling EN14825	Heating	kW	9.76	9.14	10.45
	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Power Input		kW	3.57	3.86	4.65
	Pdesign	kW	12.00	12.5	14.0
SEER/Energy Efficiency Class (or ηsc %)			6.06/239.4	5.34/210.6	5.31/209.4
	Seasonal Energy Consumption	kWh/a	629	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.63	3.67	4.60
Pdesign		kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.24/166.6	3.94/154.6	3.93/154.2
Seasonal Energy Consumption		kWh/a	3168	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
Remote Controller	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1934	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
Maximum Height Difference		m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 3.1/30	R410A - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	A	17.37	5.42	6.66
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE					
			£1,055	£1,055	£1,240
OUTDOOR RETAIL PRICE					
			£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E					
			£59	£59	£59
SYSTEM RETAIL PRICE					
			£3,678	£3,967	£4,315

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS5E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM110#_160#BTP-E	£147



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller



Automatic restart



Slim Ducted Indoor Unit

CODE		53	
Performance			
Indoor Unit		RAV-	RM561SDT-E
Outdoor Unit		RAV-	GP561ATP-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.6
	EER/COP	W/W	3.21/3.54
UK	Cooling Total/Sensible	kW	4.8/3.6
	Heating	kW	3.55
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6
	Power Input	kW	1.56
	Pdesign	kW	5.00
	SEER/Energy Efficiency Class		5.77/A+
	Seasonal Energy Consumption	kWh/a	303
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.0
	Power Input	kW	1.58
	Pdesign	kW	3.80
	SCOP/Energy Efficiency Class		4.20/A+
	Seasonal Energy Consumption	kWh/a	1266
Indoor Data		RAV-	RM561SDT-E
Air Flow	High - Medium - Low	l/s	217 - 188 - 162
	High - Medium - Low	m³/h	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 55 - 51
Unit	Height x Width x Depth	mm	210 x 845 x 645
	Weight	kg	22
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
Remote Controller			RBC-AMT32E
Outdoor Data		RAV-	GP561ATP-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625
Sound	Pressure High Cooling/Heating	dB(A)	46/48
	Power High Cooling/Heating	dB(A)	63/65
Unit	Height x Width x Depth	mm	630 x 799 x 299
	Weight	kg	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 -1/4
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20
	Additional Charge Liquid Side	g/m	20
Run Current	Maximum	A	7.81
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16
INDOOR RETAIL PRICE			£640
OUTDOOR RETAIL PRICE			£1,145
REMOTE CONTROLLER RBC-AMT32E			£59
SYSTEM RETAIL PRICE			£1,844

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Self-cleaning



Single-split



Chargeless



Automatic restart



Built-in drain pump



Wired controller



Floor-Mounted Cabinet Indoor Unit

CODE			100	125	140
Performance					
Indoor Unit		MMF-	AP0366H1-E	AP0486H1-E	AP0566H1-E
Outdoor Unit		RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	12.5	14.0
	Heating Capacity	kW	11.2	14.0	16.0
	EER/COP	W/W	4.12/0.13	3.29/0.16	3.07/0.16
UK	Cooling Total/Sensible	kW	10.2/7.6	12.7/9.3	14.5/10.8
	Heating	kW	8.50	10.90	12.20
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.42	3.80	4.55
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.58	3.64	4.36
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	533 - 450 - 50	600 - 517 - 100	600 - 480 - 100
	High - Medium - Low	m³/h	1920 - 1620 - 1380	2160 - 1730 - 1560	2160 - 1730 - 1560
Sound	Pressure High - Medium - Low	dB(A)	51 - 46 - 41	54 - 49 - 44	54 - 49 - 44
	Power High - Medium - Low	dB(A)	69 - 64 - 59	72 - 67 - 62	72 - 67 - 62
Unit	Height x Width x Depth	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	62	62	62
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6060 - 1683	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R410A - 3.1/30	R410A - 3.1/30	R410A - 3.1/30
	Additional Charge Liquid Side	g/m	40	40	40
Run Current	Maximum	A	3.85	5.75	6.77
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,643	£1,726	£1,811
RBC-CK2 CONVERSION KIT (supplied loose)			£136	£136	£136
OUTDOOR RETAIL PRICE			£2,744	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£4,582	£4,774	£5,022

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Twin-Split High-Wall Indoor Unit

CODE			50	69	100	100
Performance						
Indoor Unit 1		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM561KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM561KRTP-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Nominal	Cooling Capacity	kW	5.0	6.9	10.0	10.0
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	3.01/3.42	2.75/2.95	4.10/4.10	3.42/3.93
UK	Cooling Total/Sensible	kW	-*	-*	9.63/7.32	9.70/7.40
	Heating	kW	-*	-*	7.10	7.31
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.66	2.44	2.44	2.92
	Pdesign	kW	5.00	6.70	10.00	10.00
	SEER/Energy Efficiency Class		-*	-*	8.15/A++	5.51/A
	Seasonal Energy Consumption	kWh/a	-*	-*	429	635
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	2.6 - 13.0	2.4 - 15.6
	Power Input	kW	1.55	2.61	2.73	2.80
	Pdesign	kW	4.40	6.30	9.20	10.80
	SCOP/Energy Efficiency Class		-*	-*	4.05/A+	3.87/A
	Seasonal Energy Consumption	kWh/a	-*	-*	3179	3903
Indoor Data						
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	192 - 145 - 83	267 - 230 - 188	233 - 208 - 183
	High - Medium - Low	m³/h	570 - 462 - 300	690 - 522 - 300	960 - 828 - 678	840 - 750 - 660
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	45 - 40 - 30	42 - 39 - 36	42 - 39 - 36
	Power High - Medium - Low	dB(A)	56 - 52 - 44	60 - 55 - 45	57 - 54 - 51	57 - 54 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 228	320 x 1050 x 228
	Weight	kg	10	10	12	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	20	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	7.78	12.23	15.14	3.72
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
* Waiting for published data.						
INDOOR RETAIL PRICE			£608	£662	£854	£854
OUTDOOR RETAIL PRICE			£1,145	£1,869	£2,330	£2,744
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£1,812	£2,590	£3,243	£3,657

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split High-Wall Indoor Unit (continued)

CODE		121	123	140
Performance				
Indoor Unit 1	RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Indoor Unit 2	RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Outdoor Unit	RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.1	14.0
	Heating Capacity	kW	12.8	16.0
	EER/COP	W/W	3.45/3.66	2.75/3.28
UK	Cooling Total/Sensible	kW	12.03/8.84	13.30/9.30
	Heating	kW	8.88	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 13.5
	Power Input	kW	3.55	4.00
	Pdesign	kW	12.5	14.0
	SEER/Energy Efficiency Class		6.69/264.6	6.12/241.8
	Seasonal Energy Consumption	kWh/a	-*	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	2.4 - 18.0
	Power Input	kW	3.66	3.83
	Pdesign	kW	9.60	11.8
	SCOP/Energy Efficiency Class		4.37/171.8	4.09/160.6
	Seasonal Energy Consumption	kWh/a	-*	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	283 - 208 - 183	283 - 208 - 183
	High - Medium - Low	m³/h	1020 - 750 - 660	1020 - 750 - 660
Sound	Pressure High - Medium - Low	dB(A)	47 - 41 - 36	47 - 41 - 36
	Power High - Medium - Low	dB(A)	62 - 56 - 51	62 - 56 - 51
Unit	Height x Width x Depth	mm	320 x 1050 x 228	320 x 1050 x 228
	Weight	kg	12	12
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Outdoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52
	Power High Cooling/Heating	dB(A)	67/68	68/69
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	22.78	5.42
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	220/240-1-50-16
* Waiting for published data.				
INDOOR RETAIL PRICE		£920	£920	£920
OUTDOOR RETAIL PRICE		£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E		£59	£59	£59
SYSTEM RETAIL PRICE		£3,543	£3,832	£3,995

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Smart Cassette Indoor Unit

CODE			100	125
Performance				
Indoor Unit 1		RAV-	GM561UT-E	GM801UT-E
Indoor Unit 2		RAV-	GM561UT-E	GM801UT-E
Outdoor Unit		RAV-	GP1101AT-E	GP1401AT-E
Nominal	Cooling Capacity	kW	10.0	12.5
	Heating Capacity	kW	11.2	14.0
	EER/COP	W/W	5.26/5.14	4.30/4.61
UK	Cooling Total/Sensible	kW	9.6/8.0	11.8/9.2
	Heating	kW	8.00	9.76
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	3.1 - 14.0
	Power Input	kW	1.90	2.91
	Pdesign	kW	10.00	12.50
	SEER/Energy Efficiency Class (or η _{sc} %)		8.64/A+++	8.19/329
	Seasonal Energy Consumption	kWh/a	398	903
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.6 - 16.5
	Power Input	kW	2.18	3.04
	Pdesign	kW	9.20	9.60
	SCOP/Energy Efficiency Class (or η _{sc} (A) %)		5.00/A++	4.97/195.8
	Seasonal Energy Consumption	kWh/a	2573	2702
Indoor Data				
Air Flow	High - Medium - Low	l/s	292 - 250 - 208	533 - 36 - 225
	High - Medium - Low	m ³ /h	1050 - 900 - 750	1920 - 1290 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 26	42 - 35 - 27
	Power High - Medium - Low	dB(A)	48 - 45 - 43	56 - 49 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	319 x 840 x 840
	Weight	kg	20	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U41PG(W)-E	kg	5	5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m ³ /h - l/s	6960 - 1933	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	49/50	50/51
	Power High Cooling/Heating	dB(A)	66/67	67/68
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	104	104
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	35	35
	Additional Charge Sub Liquid Side	g/m	20	20
Run Current	Maximum	A	10.43	14.55
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	220-240/1/50-25
INDOOR RETAIL PRICE			£1,920	£2,284
OUTDOOR RETAIL PRICE			£2,330	£2,564
REMOTE CONTROLLER RBC-AMS55E-ES			£113	£113
SYSTEM RETAIL PRICE			£4,363	£4,961

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Compact Cassette Indoor Unit

CODE		50	71	100	100
Performance					
Indoor Unit 1		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0
	Heating Capacity	kW	5.3	8.0	11.2
	EER/COP	W/W	3.21/3.50	4.10/4.40	4.18/4.19
UK	Cooling Total/Sensible	kW	4.8/3.6	7.4/5.2	9.6/7.2
	Heating	kW	3.55	5.25	8.00
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.9 - 8.0	3.1 - 12.0
	Power Input	kW	1.56	1.73	2.39
	Pdesign	kW	5.00	6.70	10.00
	SEER/Energy Efficiency Class		6.02/A+	7.80/A++	7.70/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	291	404	597
	Range Min. - Max.	kW	1.5 - 6.3	1.3 - 11.3	2.6 - 13.0
	Power Input	kW	1.47	1.82	2.67
	Pdesign	kW	3.80	6.80	7.60
SCOP/Energy Efficiency Class			4.30/A+	4.86/A++	4.40/A+
Seasonal Energy Consumption		kWh/a	1237	2349	2616
Indoor Data					
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	45	74	104
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	R32 - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	20	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	7.68	8.80	12.78
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
INDOOR RETAIL PRICE			£1,770	£1,792	£1,836
OUTDOOR RETAIL PRICE			£1,145	£1,869	£2,330
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£2,974	£3,720	£4,225

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit		RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	4.69/4.79	4.22/4.63	3.96/3.96	3.61/4.09	3.12/3.72
UK	Cooling Total/Sensible	kW	9.6/7.8	9.70/7.40	11.8/8.8	12.10/8.40	13.50/9.00
	Heating	kW	8.00	7.31	9.76	9.14	10.45
	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Cooling EN14825	Power Input	kW	2.13	2.37	3.16	3.46	4.49
	Pdesign	kW	10.00	10.00	12.00	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		8.57/A+++	6.57/A++	8.14/323	6.87/271.8	6.70/265.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	597	532	783	-	-
	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 15.6	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.34	2.42	3.21	3.42	4.30
	Pdesign	kW	8.00	11.60	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.73/A++	4.28/A+	4.72/185.8	4.30/169.0	4.24/166.6
	Seasonal Energy Consumption	kWh/a	2616	3795	2672	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	292 - 242 - 217	342 - 267 - 225	342 - 267 - 225	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1050 - 870 - 780	1230 - 960 - 810	1230 - 960 - 810	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	32 - 29 - 28	35 - 31 - 28	35 - 31 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	47 - 44 - 43	50 - 46 - 43	50 - 46 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGSP(W)-E	kg	4	4.2	4	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
	Remote Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-50	3-75	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	40	40
Run Current	Maximum	A	11.20	3.72	15.36	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,642	£1,642	£1,832	£1,832	£1,832
OUTDOOR RETAIL PRICE			£2,330	£2,744	£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£4,031	£4,445	£4,455	£4,744	£4,907

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit

CODE			71	100	100	125
Performance						
Indoor Unit 1		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E
Outdoor Unit		RAV-	GP801AT-E	GP1101AT-E	SP1104AT8-E1	GP1401AT-E
Nominal	Cooling Capacity	kW	7.1	10.0	10.0	12.5
	Heating Capacity	kW	8.0	11.2	11.2	14.0
	EER/COP	W/W	4.44/4.44	4.48/4.71	4.22/4.43	3.49/3.90
UK	Cooling Total/Sensible	kW	7.4/6.0	9.6/7.8	9.50/7.20	11.8/8.8
	Heating	kW	5.25	8.00	7.31	9.76
Cooling EN14825	Range Min. - Max.	kW	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0
	Power Input	kW	1.60	2.23	2.37	3.58
	Pdesign	kW	6.90	10.00	10.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		7.82/A++	7.97/A++	6.35/A++	7.34/300.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	429	604	552	660
	Range Min. - Max.	kW	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5
	Power Input	kW	1.80	2.38	2.53	3.59
	Pdesign	kW	6.80	7.60	11.60	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		5.05/A++	4.71/A++	4.41/A+	4.70/185.4
	Seasonal Energy Consumption	kWh/a	2372	2489	3684	2543
Indoor Data						
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	10	10	10
	Max. Length Distributor To Furthest Indoor	m	10	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	3180 - 883	6960 - 1933	6060 - 1683	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	46/48	49/50	49/50	50/51
	Power High Cooling/Heating	dB(A)	63/65	66/67	66/67	67/68
Unit	Height x Width x Depth	mm	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	74	104	95	104
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.9	R32 - 3.1	R410A - 3.1	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	35	35	40	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	8.70	11.39	3.72	17.18
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25
INDOOR RETAIL PRICE			£1,182	£1,290	£1,290	£1,526
OUTDOOR RETAIL PRICE			£1,869	£2,330	£2,744	£2,564
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£3,110	£3,679	£4,093	£4,149

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit (continued)

CODE			125	140
Performance				
Indoor Unit 1		RAV-	RM801CTP-E	RM801CTP-E
Indoor Unit 2		RAV-	RM801CTP-E	RM801CTP-E
Outdoor Unit		RAV-	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	14.0
	Heating Capacity	kW	14.0	16.0
	EER/COP	W/W	3.36/3.93	3.11/3.71
UK	Cooling Total/Sensible	kW	11.90/8.70	13.30/9.30
	Heating	kW	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.72	4.50
	Pdesign	kW	12.5	14.0
	SEER/Energy Efficiency Class (or η_{sc} %)		6.04/238.6	5.97/235.8
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.56	4.31
	Pdesign	kW	11.8	12.0
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		4.19/164.6	4.18/164.2
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	392 - 278 - 208	392 - 278 - 208
	High - Medium - Low	m ³ /h	1410 - 1000 - 750	1410 - 1000 - 750
Sound	Pressure High - Medium - Low	dB(A)	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m ³ /h - l/s	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/52	51/53
	Power High Cooling/Heating	dB(A)	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,526	£1,526
OUTDOOR RETAIL PRICE			£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£4,438	£4,601

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Slim Ducted Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit 1		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	SP1104AT8-E1
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	3.21/3.54	3.80/4.40	3.91/4.19	3.58/4.19
UK	Cooling Total/Sensible	kW	4.8/3.6	7.4/5.0	9.6/7.2	9.70/7.40
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.56	1.87	2.56	2.79
	Pdesign	kW	5.00	7.10	10.00	10.00
	SEER/Energy Efficiency Class		5.77/A+	6.50/A++	6.65/A++	5.55/A
	Seasonal Energy Consumption	kWh/a	303	466	696	631
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.0	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0
	Power Input	kW	1.58	1.82	2.67	2.67
	Pdesign	kW	3.80	7.00	7.60	11.60
	SCOP/Energy Efficiency Class		4.20/A+	4.51/A+	4.00/A+	3.84/A
	Seasonal Energy Consumption	kWh/a	1266	2450	2569	4234
Indoor Data						
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	20	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	7.81	9.14	12.78	3.72
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£1,230	£1,256	£1,280	£1,280
OUTDOOR RETAIL PRICE			£1,145	£1,869	£2,330	£2,744
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59
SYSTEM RETAIL PRICE			£2,434	£3,184	£3,669	£4,083

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit

CODE			100	100	125
Performance					
Indoor Unit 1		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.5
	Heating Capacity	kW	11.2	11.2	14.0
	EER/COP	W/W	4.17/4.10	3.79/4.04	3.50/3.86
UK	Cooling Total/Sensible	kW	9.6/8.0	9.70/7.20	11.8/9.0
	Heating	kW	8.00	7.31	9.76
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0
	Power Input	kW	2.40	2.64	3.57
	Pdesign	kW	10.00	10.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		6.74/A++	5.65/A+	6.27/239.4
	Seasonal Energy Consumption	kWh/a	696	619	707
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 15.6	2.6 - 16.5
	Power Input	kW	2.73	2.77	3.63
	Pdesign	kW	7.60	10.80	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.26/A+	3.87/A	4.25/166.6
	Seasonal Energy Consumption	kWh/a	2569	3906	2569
Indoor Data					
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200
	High - Medium - Low	m³/h	800 - 630 - 480	800 - 630 - 480	1200 - 930 - 720
External Static Pressure		Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	34 - 30 - 26
	Power High - Medium - Low	dB(A)	55 - 51 - 46	55 - 51 - 46	55 - 51 - 46
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	104	95	104
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	13.06	3.72	17.37
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25
INDOOR RETAIL PRICE			£1,154	£1,154	£1,654
OUTDOOR RETAIL PRICE			£2,330	£2,744	£2,564
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£3,543	£3,957	£4,277

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit (continued)

CODE			125	140
Performance				
Indoor Unit 1		RAV-	RM801BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM801BTP-E	RM801BTP-E
Outdoor Unit		RAV-	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	14.0
	Heating Capacity	kW	14.0	16.0
	EER/COP	W/W	3.24/3.81	3.01/3.48
UK	Cooling Total/Sensible	kW	12.10/9.00	13.50/10.10
	Heating	kW	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.86	4.65
	Pdesign	kW	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.49/-	5.45/-
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.67	4.60
	Pdesign	kW	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.96/-	3.94/-
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	333 - 275 - 242	333 - 275 - 242
	High - Medium - Low	m³/h	1200 - 990 - 870	1200 - 990 - 870
External Static Pressure		Pa	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	34 - 30 - 26	34 - 30 - 26
	Power High - Medium - Low	dB(A)	55 - 51 - 46	55 - 51 - 46
Unit	Height x Width x Depth	mm	275 x 1000 x 750	275 x 1000 x 750
	Weight	kg	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E
Outdoor Data				
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/52	51/53
	Power High Cooling/Heating	dB(A)	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,654	£1,654
OUTDOOR RETAIL PRICE			£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£4,566	£4,729

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Floor-Mounted Cabinet Indoor Unit

CODE			100	125	140
Performance					
Indoor Unit 1		MMF-	AP0186H1-E	AP0246H1-E	AP0246H1-E
Indoor Unit 2		MMF-	AP0186H1-E	AP0246H1-E	AP0246H1-E
Outdoor Unit		RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	12.5	14.0
	Heating Capacity	kW	11.2	14.0	16.0
	EER/COP	W/W	4.17/4.30	3.14/3.83	3.06/3.65
UK	Cooling Total/Sensible	kW	9.50/7.20	11.90/8.70	13.30/9.30
	Heating	kW	7.31	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.39	3.81	4.56
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.55	3.65	4.37
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	250 - 217 - 17	333 - 275 - 67	333 - 275 - 67
	High - Medium - Low	m³/h	900 - 780 - 660	1200 - 990 - 840	1200 - 990 - 840
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	49 - 45 - 39	49 - 45 - 39
	Power High - Medium - Low	dB(A)	64 - 60 - 55	67 - 63 - 57	67 - 63 - 57
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	47	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6060 - 1683	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40	40
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	3.71	5.85	6.87
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,970	£3,098	£3,098
RBC-CK2 CONVERSION KIT (supplied loose)			£272	£272	£272
OUTDOOR RETAIL PRICE			£2,744	£2,853	£2,853
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£6,045	£6,282	£6,282

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Concealed-Chassis Indoor Unit

CODE			100	125	140
Performance					
Indoor Unit 1		MML-	AP0184BH1-E	AP0244BH1-E	AP0244BH1-E
Indoor Unit 2		MML-	AP0184BH1-E	AP0244BH1-E	AP0244BH1-E
Outdoor Unit		RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	12.5	14.0
	Heating Capacity	kW	11.2	14.0	16.0
	EER/COP	W/W	4.05/4.18	3.13/3.81	3.05/3.64
UK	Cooling Total/Sensible	kW	9.50/7.20	11.90/8.70	13.30/9.30
	Heating	kW	7.31	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.46	3.82	4.57
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.62	3.66	4.38
	Pdesign	kW	-	-	-
SCOP/Energy Efficiency Class			-	-	-
Seasonal Energy Consumption		kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	200 - 167 - 133	267 - 217 - 183	267 - 217 - 183
	High - Medium - Low	m³/h	740 - 600 - 490	950 - 790 - 640	950 - 790 - 640
External Static Pressure		Pa	5	5	5
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	42 - 37 - 33	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	57 - 52 - 48	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	29	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
Power Cable	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	46 to -15/ 15 to -20	46 to -15/ 15 to -20	46 to -15/ 15 to -20
Air Flow	High	m³/h - l/s	6060 - 1683	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40	40
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	3.85	5.57	6.59
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,944	£2,022	£2,022
RBC-CK1 CONVERSION KIT (supplied loose)			£272	£272	£272
OUTDOOR RETAIL PRICE			£2,744	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£5,019	£5,206	£5,369

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit

CODE			95	100	121	123	140
Performance							
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	SM566KRT-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	SM566KRT-E
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	SM566KRT-E
Outdoor Unit		RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	10.0	12.1	12.3	14.0
	Heating Capacity	kW	11.2	11.2	12.8	14.0	16.0
	EER/COP	W/W	4.10/4.10	3.42/3.93	3.45/3.66	3.08/3.61	2.75/3.28
UK	Cooling Total/Sensible	kW	9.63/7.32	9.70/7.40	12.03/8.84	11.90/8.70	13.30/9.30
	Heating	kW	7.10	7.31	8.88	9.14	10.45
	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 13.5	2.6 - 16.0
Cooling EN14825	Power Input	kW	2.44	2.92	3.55	4.00	5.10
	Pdesign	kW	10.00	10.00	12.5	12.3	14.0
	SEER/Energy Efficiency Class		8.15/A++	5.51/A	6.69/264.6	6.12/241.8	6.03/238.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	429	635	-*	-	-
	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 15.6	3.0 - 16.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.73	2.80	3.66	3.83	4.88
	Pdesign	kW	9.20	10.80	9.60	11.8	12.0
	SCOP/Energy Efficiency Class		4.05/A+	3.87/A	4.37/171.8	4.09/160.6	4.07/159.8
	Seasonal Energy Consumption	kWh/a	3179	3903	-*	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	158 - 128 - 83	192 - 145 - 83	192 - 145 - 83	233 - 208 - 183
	High - Medium - Low	m³/h	570 - 462 - 300	570 - 462 - 300	690 - 522 - 300	690 - 522 - 300	840 - 750 - 660
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	45 - 40 - 30	45 - 40 - 30	42 - 39 - 36
	Power High - Medium - Low	dB(A)	56 - 52 - 44	56 - 52 - 44	60 - 55 - 45	60 - 55 - 45	57 - 54 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 228
	Weight	kg	10	10	10	10	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-TA09NE	WH-L17SE	WH-TA09NE	WH-TA09NE
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	40	40
Run Current	Maximum	A	15.14	3.72	22.78	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.							
INDOOR RETAIL PRICE			£912	£912	£993	£993	£1,281
OUTDOOR RETAIL PRICE			£2,330	£2,744	£2,564	£2,853	£3,016
RBC-TRP100E			£208	£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£3,509	£3,923	£3,824	£4,113	£4,564

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Compact Cassette Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 3		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	4.18/4.19	3.58/4.19	3.96/3.96	3.61/4.09	2.81/3.48
UK	Cooling Total/Sensible	kW	9.60/7.20	9.70/7.40	-*	12.10/8.40	13.50/9.00
	Heating	kW	8.00	7.31	-*	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.39	2.79	3.16	3.46	4.99
	Pdesign	kW	10.00	10.00	12.00	12.5	14.0
	SEER/Energy Efficiency Class		7.70/A++	5.64/A+	-*	6.18/-*	6.03/238.2
	Seasonal Energy Consumption	kWh/a	597	621	-*	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.67	2.67	3.21	3.42	4.60
	Pdesign	kW	7.60	11.60	8.00	11.8	12.0
	SCOP/Energy Efficiency Class		4.40/A+	3.90/A	-*	4.18/-*	4.13/162.2
	Seasonal Energy Consumption	kWh/a	2616	4169	-*	-	-
Indoor Data		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	3	2.5	3	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	40	40
Run Current	Maximum	A	12.78	3.72	15.36	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.							
INDOOR RETAIL PRICE			£2,655	£2,655	£2,688	£2,688	£2,754
OUTDOOR RETAIL PRICE			£2,330	£2,744	£2,564	£2,853	£3,016
RBC-TRP100E			£208	£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£5,252	£5,666	£5,519	£5,808	£6,037

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split 4-Way Cassette Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		RAV-	RM561UTP-E
Indoor Unit 2		RAV-	RM561UTP-E
Indoor Unit 3		RAV-	RM561UTP-E
Outdoor Unit		RAV-	SP1604AT8-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.12/3.72
UK	Cooling Total/Sensible	kW	13.50/9.00
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.49
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		6.65/-
	Seasonal Energy Consumption	kWh/a	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.30
	Pdesign	kW	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.24/-
	Seasonal Energy Consumption	kWh/a	-
Indoor Data		RAV-	RM561UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217
	High - Medium - Low	m³/h	1050 - 870 - 780
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840
	Weight	kg	20
Panel	Height x Width x Depth	mm	30 x 950 x 950
	Weight RBC-UM11PG(W)-E	kg	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10
	Max. Length Distributor To Furthest Indoor	m	15
	Drain Pipe Connection OD/ID	mm	VP25
Power Cable	Indoor to Indoor		2 core + earth
Remote Controller			RBC-AMT32E
Outdoor Data		RAV-	SP1604AT8-E1
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	40
Run Current	Maximum	A	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£2,463	
OUTDOOR RETAIL PRICE		£3,016	
RBC-TRP100E		£208	
REMOTE CONTROLLER RBC-AMT32E		£59	
SYSTEM RETAIL PRICE		£5,746	

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ceiling Indoor Unit

CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 3		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.49/3.9	3.36/3.93	3.11/3.71
UK	Cooling Total/Sensible	kW	-*	11.90/8.70	13.30/9.30
	Heating	kW	-*	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.58	3.72	4.50
	Pdesign	kW	12.00	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		-*	6.04/238.6	6.04/238.6
	Seasonal Energy Consumption		kWh/a	-*	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.59	3.56	3.71
	Pdesign	kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		-*	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption		kWh/a	-*	-
Indoor Data		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690
	Weight	kg	23	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	17.18	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.					
INDOOR RETAIL PRICE			£1,773	£1,773	£1,935
OUTDOOR RETAIL PRICE			£2,564	£2,853	£3,016
RBC-TRP100E			£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£4,604	£4,893	£5,218

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Slim Ducted Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	
Indoor Unit 2	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	
Indoor Unit 3	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	
Outdoor Unit	RAV-	GP1101AT-E	SP1104AT8-E1	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1	
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	3.91/4.19	3.58/4.19	3.5/3.86	3.24/3.81	2.81/3.48
UK	Cooling Total/Sensible	kW	9.60/7.20	9.70/7.40	-*	12.10/9.00	13.50/10.10
	Heating	kW	8.00	7.31	-*	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.56	2.79	3.57	3.86	4.99
	Pdesign	kW	10.00	10.00	12.00	12.5	14.0
	SEER/Energy Efficiency Class		6.65/A++	5.55/A	-*	5.49/216.6	5.92/233.8
	Seasonal Energy Consumption	kWh/a	696	631	-*	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.67	2.67	3.63	3.67	4.60
	Pdesign	kW	7.60	11.60	8.00	11.8	12.0
	SCOP/Energy Efficiency Class		4.00/A+	3.84/A	-*	3.96/155.4	4.07/159.8
	Seasonal Energy Consumption	kWh/a	2569	4234	-*	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	40	40
Run Current	Maximum	A	12.78	3.72	17.37	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.							
INDOOR RETAIL PRICE			£1,845	£1,845	£1,884	£1,884	£1,920
OUTDOOR RETAIL PRICE			£2,330	£2,744	£2,564	£2,853	£3,016
RBC-TRP100E			£208	£208	£208	£208	£208
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59	£59	£59
SYSTEM RETAIL PRICE			£4,442	£4,856	£4,715	£5,004	£5,203

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ducted Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		RAV-	RM561BTP-E
Indoor Unit 2		RAV-	RM561BTP-E
Indoor Unit 3		RAV-	RM561BTP-E
Outdoor Unit		RAV-	SP1604AT8-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.01/3.48
UK	Cooling Total/Sensible	kW	13.50/10.10
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.65
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.38/212.2
	Seasonal Energy Consumption		kWh/a
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.60
	Pdesign	kW	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.94/154.6
	Seasonal Energy Consumption		kWh/a
Indoor Data		RAV-	RM561BTP-E
Air Flow	High - Medium - Low	l/s	222 - 175 - 133
	High - Medium - Low	m³/h	800 - 630 - 480
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25
	Power High - Medium - Low	dB(A)	55 - 51 - 46
Unit	Height x Width x Depth	mm	275 x 700 x 750
	Weight	kg	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	10
	Max. Length Distributor To Furthest Indoor	m	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
Power Cable	Indoor to Indoor		2 core + earth
Remote Controller			RBC-AMT32E
Outdoor Data		RAV-	SP1604AT8-E1
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	40
Run Current	Maximum	A	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE			£1,731
OUTDOOR RETAIL PRICE			£3,016
RBC-TRP100E			£208
REMOTE CONTROLLER RBC-AMT32E			£59
SYSTEM RETAIL PRICE			£5,014

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Floor-Mounted Cabinet Indoor Unit

CODE			125	140
Performance				
Indoor Unit 1		MMF-	AP0156H1-E	AP0186H1-E
Indoor Unit 2		MMF-	AP0156H1-E	AP0186H1-E
Indoor Unit 3		MMF-	AP0156H1-E	AP0186H1-E
Outdoor Unit		RAV-	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	14.0
	Heating Capacity	kW	14.0	16.0
	EER/COP	W/W	3.15/3.84	3.07/3.66
UK	Cooling Total/Sensible	kW	11.90/8.70	13.30/9.30
	Heating	kW	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	0.05	0.05
	Pdesign	kW	-	-
	SEER/Energy Efficiency Class		-	-
	Seasonal Energy Consumption		kWh/a	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	0.38	0.38
	Pdesign	kW	-	-
	SCOP/Energy Efficiency Class		-	-
	Seasonal Energy Consumption		kWh/a	-
Indoor Data		MMF-	AP0156H1-E	AP0186H1-E
Air Flow	High - Medium - Low	l/s	250 - 217 - 17	250 - 217 - 17
	High - Medium - Low	m³/h	900 - 780 - 660	900 - 780 - 660
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	46 - 42 - 37
	Power High - Medium - Low	dB(A)	64 - 60 - 55	64 - 60 - 55
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	46
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection	mm	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller		RBC-AMT32E		RBC-AMT32E
Outdoor Data		RAV-	SP1404AT8-E1	SP1604AT8-E1
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/52	51/53
	Power High Cooling/Heating	dB(A)	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	5.79	6.81
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£4,203	£4,455
RBC-CK2 CONVERSION KIT (supplied loose)			£408	£408
RBC-TRP100E			£208	£208
OUTDOOR RETAIL PRICE			£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59
SYSTEM RETAIL PRICE			£7,731	£8,146

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Concealed-Chassis Indoor Unit

CODE			100	125	140
Performance					
Indoor Unit 1	MML-	AP0094BH1-E	AP0124BH1-E	AP0184BH1-E	
Indoor Unit 2	MML-	AP0094BH1-E	AP0124BH1-E	AP0184BH1-E	
Indoor Unit 3	MML-	AP0094BH1-E	AP0124BH1-E	AP0184BH1-E	
Outdoor Unit	RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1	
Nominal	Cooling Capacity	kW	10.0	12.5	14.0
	Heating Capacity	kW	11.2	14.0	16.0
	EER/COP	W/W	4.07/4.20	3.15/3.84	3.07/3.66
UK	Cooling Total/Sensible	kW	9.70/7.40	11.90/8.70	13.30/9.30
	Heating	kW	7.31	9.14	10.45
	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
Cooling EN14825	Power Input	kW	0.05	0.05	0.05
	Pdesign	kW	-	-	-
	SEER/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
Heating EN14825	Power Input	kW	0.25	0.25	0.38
	Pdesign	kW	-	-	-
	SCOP/Energy Efficiency Class		-	-	-
	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
Indoor Data					
Air Flow	High - Medium - Low	l/s	133 - 117 - 83	133 - 117 - 83	200 - 167 - 133
	High - Medium - Low	m³/h	460 - 400 - 300	460 - 400 - 300	740 - 600 - 490
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32
	Power High - Medium - Low	dB(A)	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47
Unit	Height x Width x Depth	mm	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220
	Weight	kg	21	21	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6060 - 1683	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg/m	R410A - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40	40	40
	Additional Charge Sub Liquid Side	g/m	20	40	40
Run Current	Maximum	A	3.70	5.40	6.81
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,547	£2,625	£2,916
RBC-CK1 CONVERSION KIT (supplied loose)			£408	£408	£408
RBC-TRP100E			£208	£208	£208
OUTDOOR RETAIL PRICE			£2,744	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£5,966	£6,153	£6,607

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split High-Wall Indoor Unit

CODE			121	123	140
Performance					
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 4		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.1	12.3	14.0
	Heating Capacity	kW	12.8	14.0	16.0
	EER/COP	W/W	3.45/3.66	3.08/3.61	2.75/3.28
UK	Cooling Total/Sensible	kW	12.03/8.84	11.90/8.70	13.30/9.30
	Heating	kW	8.88	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 13.5	2.6 - 16.0
	Power Input	kW	3.55	4.00	5.10
	Pdesign	kW	12.5	12.3	14.0
	SEER/Energy Efficiency Class		6.69/264.6	6.12/241.8	6.06/239.4
	Seasonal Energy Consumption	kWh/a	-*	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.66	3.83	4.88
	Pdesign	kW	9.60	11.8	12.0
	SCOP/Energy Efficiency Class		4.37/171.8	4.09/160.6	4.07/159.8
	Seasonal Energy Consumption	kWh/a	-*	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	158 - 128 - 83	192 - 145 - 83
	High - Medium - Low	m³/h	570 - 462 - 300	570 - 462 - 300	690 - 522 - 300
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	45 - 40 - 30
	Power High - Medium - Low	dB(A)	56 - 52 - 44	56 - 52 - 44	60 - 55 - 45
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	10	10	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	3/8 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
	Remote Controller (Infra-Red - hard-wired recommended)		WH-TA09NE	WH-TA09NE	WH-L17SE
Outdoor Data					
Operating Range		°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	22.78	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.					
INDOOR RETAIL PRICE			£1,216	£1,216	£1,324
OUTDOOR RETAIL PRICE			£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£3,839	£4,128	£4,399

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Compact Cassette Indoor Unit

CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 3		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 4		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.96/3.96	3.61/4.09	3.12/3.72
UK	Cooling Total/Sensible	kW	-*	12.10/8.40	13.50/9.00
	Heating	kW	-*	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.16	3.46	4.49
	Pdesign	kW	12.00	12.5	14.0
	SEER/Energy Efficiency Class		-*	6.18/-*	6.03/238.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	-*	-	-
	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.21	3.42	4.30
	Pdesign	kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class		-*	4.18/-*	4.13/162.2
	Seasonal Energy Consumption	kWh/a	-*	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	3	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	3/8 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	15.36	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.					
INDOOR RETAIL PRICE			£3,540	£3,540	£3,584
OUTDOOR RETAIL PRICE			£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£6.163	£6.452	£6.659

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ceiling Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		RAV-	RM401CTP-E
Indoor Unit 2		RAV-	RM401CTP-E
Indoor Unit 3		RAV-	RM401CTP-E
Indoor Unit 4		RAV-	RM401CTP-E
Outdoor Unit		RAV-	SP1604AT8-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.11/3.71
UK	Cooling Total/Sensible	kW	13.30/9.30
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.50
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		6.04/238.6
	Seasonal Energy Consumption	kWh/a	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.31
	Pdesign	kW	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6
	Seasonal Energy Consumption	kWh/a	-
Indoor Data			
Air Flow	High - Medium - Low	l/s	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690
	Weight	kg	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5
	Max. Length Main Distributor To Furthest Indoor	m	15
	Max. Distance From Second Distributor To Indoors	m	10
Power Cable	Drain Pipe Connection OD/ID	mm	VP26/20
	Indoor to Indoor		2 core + earth
Remote Controller			RBC-AMT32E
Outdoor Data			
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Second Dist. Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£2,364	
OUTDOOR RETAIL PRICE		£3,016	
REMOTE CONTROLLER RBC-AMT32E		£59	
SYSTEM RETAIL PRICE		£5,439	

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Slim Ducted Indoor Unit

CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 4		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Outdoor Unit		RAV-	GP1401AT-E	SP1404AT8-E1	SP1604AT8-E1
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.5/3.86	3.24/3.81	2.81/3.48
UK	Cooling Total/Sensible	kW	-*	12.10/9.00	13.50/10.10
	Heating	kW	-*	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.57	3.86	4.99
	Pdesign	kW	12.00	12.5	14.0
	SEER/Energy Efficiency Class		-*	5.49/216.6	5.92/233.8
	Seasonal Energy Consumption	kWh/a	-*	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.63	3.67	4.60
	Pdesign	kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class		-*	3.96/155.4	4.07/159.8
	Seasonal Energy Consumption	kWh/a	-*	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	3/8 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP20	VP25 - VP20
Power Cable	Indoor to Indoor	mm	< 850	< 850	< 850
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			2 core + earth	2 core + earth	2 core + earth
			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	46 to -15/15 to -20	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R410A - 3.1	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	17.37	5.42	6.66
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
* Waiting for published data.					
INDOOR RETAIL PRICE			£2,460	£2,460	£2,512
OUTDOOR RETAIL PRICE			£2,564	£2,853	£3,016
REMOTE CONTROLLER RBC-AMT32E			£59	£59	£59
SYSTEM RETAIL PRICE			£5,083	£5,372	£5,587

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Floor-Mounted Cabinet Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		MMF-	AP0156H1-E
Indoor Unit 2		MMF-	AP0156H1-E
Indoor Unit 3		MMF-	AP0156H1-E
Indoor Unit 4		MMF-	AP0156H1-E
Outdoor Unit		RAV-	SP1604AT8-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.07/3.66
UK	Cooling Total/Sensible	kW	13.30/9.30
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.55
	Pdesign	kW	-
SEER/Energy Efficiency Class			-
Seasonal Energy Consumption		kWh/a	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.36
	Pdesign	kW	-
	SCOP/Energy Efficiency Class		-
	Seasonal Energy Consumption	kWh/a	-
Indoor Data			
Air Flow	High - Medium - Low	l/s	250 - 217 - 17
	High - Medium - Low	m³/h	900 - 780 - 660
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37
	Power High - Medium - Low	dB(A)	64 - 60 - 55
Unit	Height x Width x Depth	mm	1750 x 600 x 210
	Weight	kg	46
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5
	Max. Length Main Distributor To Furthest Indoor	m	15
	Max. Distance From Second Distributor To Indoors	m	10
Power Cable	Indoor to Indoor		20 male screw
Remote Controller			2 core + earth
			RBC-AMT32E
Outdoor Data			
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Second Dist. Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	6.81
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£5,604	
RBC-CK2 CONVERSION KIT (supplied loose)		£544	
OUTDOOR RETAIL PRICE		£3,016	
REMOTE CONTROLLER RBC-AMT32E		£59	
SYSTEM RETAIL PRICE		£9,223	

For Features and Accessories, please refer to the individual single-split system units.

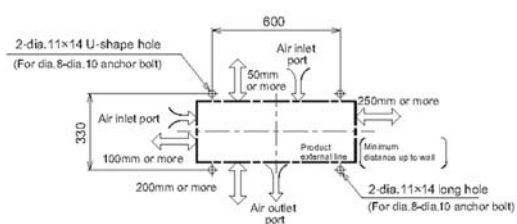


Quad-Split Concealed-Chassis Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		MML-	AP0124BH1-E
Indoor Unit 2		MML-	AP0124BH1-E
Indoor Unit 3		MML-	AP0124BH1-E
Indoor Unit 4		MML-	AP0124BH1-E
Outdoor Unit		RAV-	SP1604AT8-E1
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.07/3.66
UK	Cooling Total/Sensible	kW	13.30/9.30
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.55
	Pdesign	kW	-
	SEER/Energy Efficiency Class		-
	Seasonal Energy Consumption	kWh/a	-
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.36
	Pdesign	kW	-
	SCOP/Energy Efficiency Class		-
	Seasonal Energy Consumption	kWh/a	-
Indoor Data			
Air Flow	High - Medium - Low	l/s	133 - 117 - 83
	High - Medium - Low	m³/h	460 - 400 - 300
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32
	Power High - Medium - Low	dB(A)	51 - 49 - 47
Unit	Height x Width x Depth	mm	600 x 745 x 220
	Weight	kg	21
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Max. Subtractive Separation Between Indoors	m	5
	Max. Length Main Distributor To Furthest Indoor	m	15
	Max. Distance From Second Distributor To Indoors	m	10
Power Cable	Indoor to Indoor		20 male screw
Remote Controller			2 core + earth
			RBC-AMT32E
Outdoor Data			
Operating Range	Cooling/Heating	°C	46 to -15/15 to -20
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R410A - 3.1
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Second Dist. Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	6.42
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£3,500	
RBC-CK1 CONVERSION KIT (supplied loose)		£544	
OUTDOOR RETAIL PRICE		£3,016	
REMOTE CONTROLLER RBC-AMT32E		£59	
SYSTEM RETAIL PRICE		£7,119	

For Features and Accessories, please refer to the individual single-split system units.

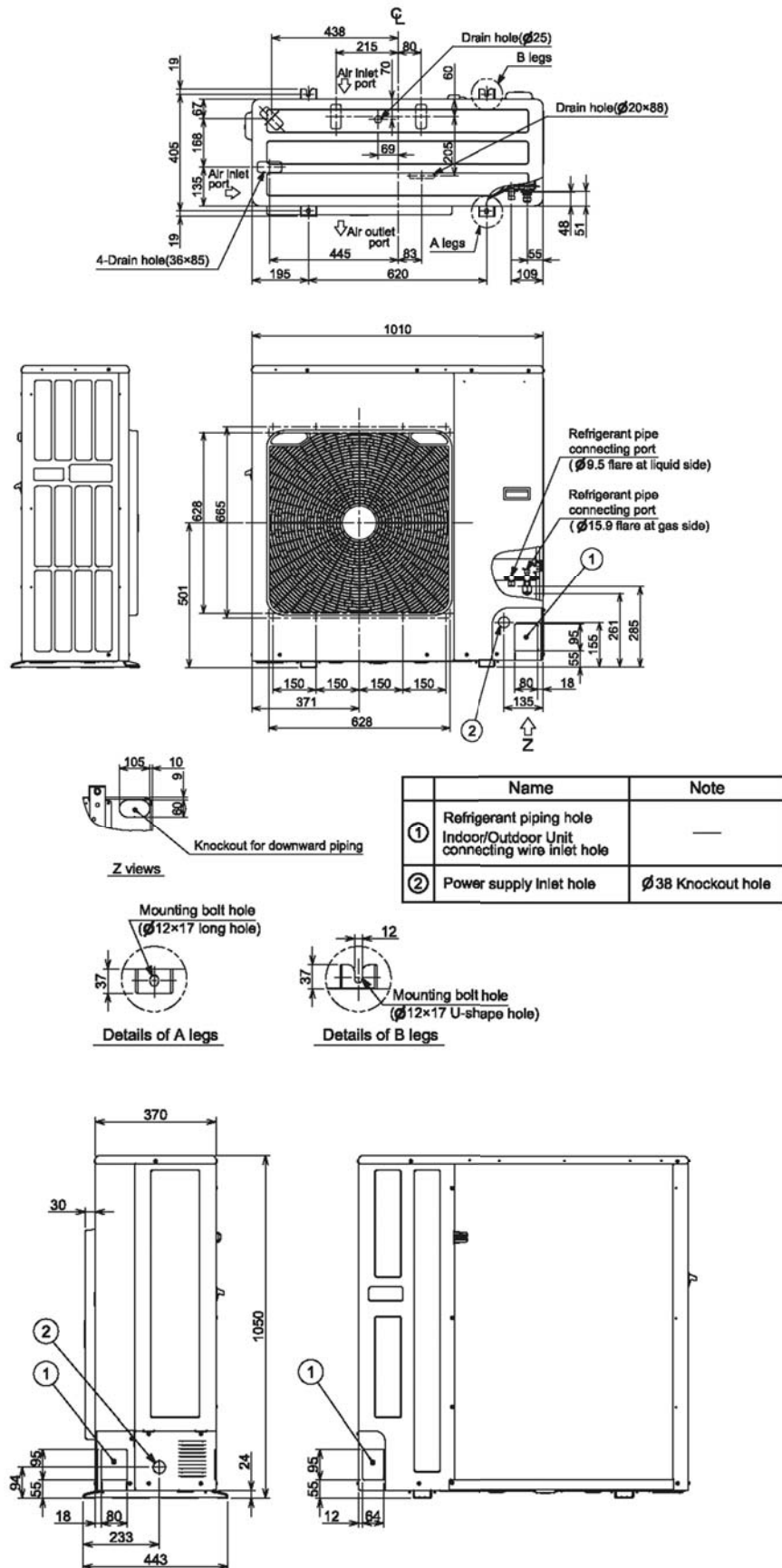
RAV SDI



126



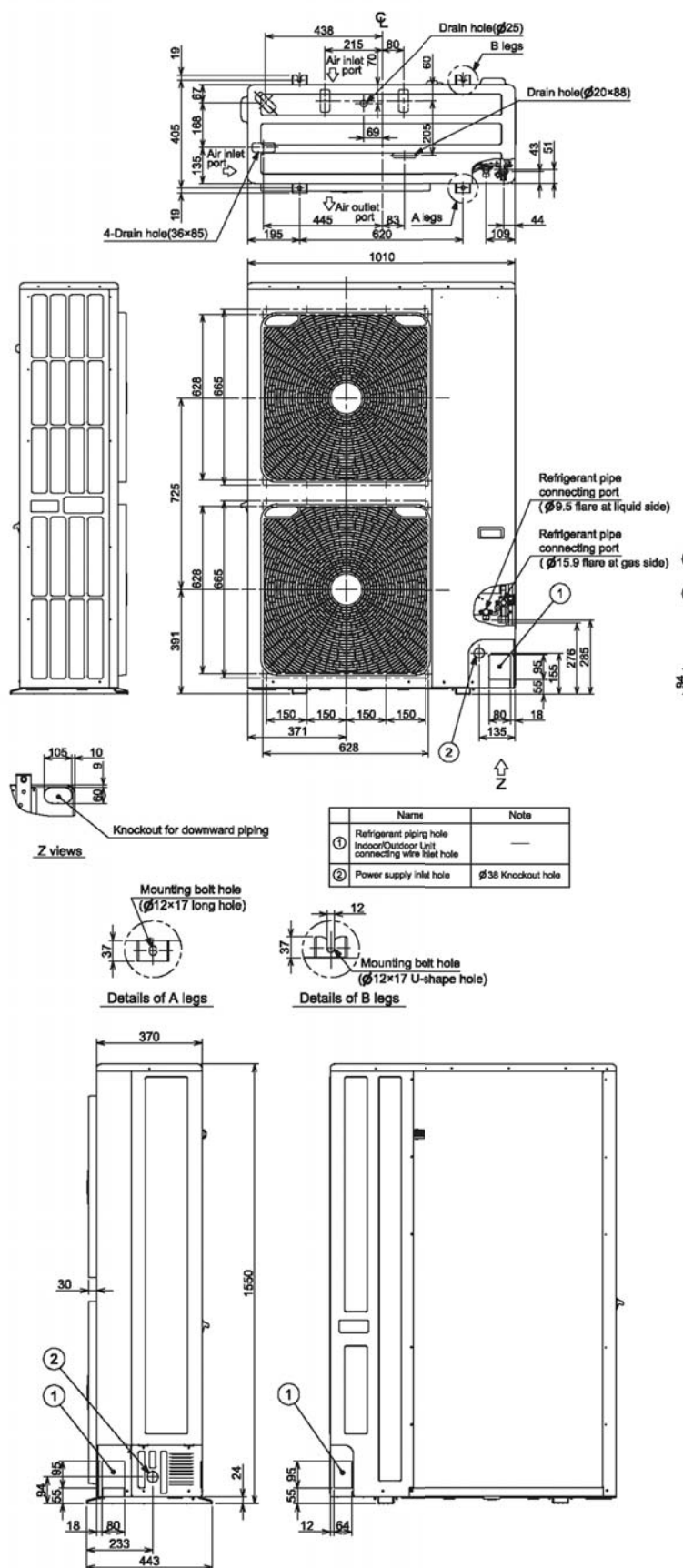
Dimensions - RAV-GP801AT-E - R32



(Unit: mm)

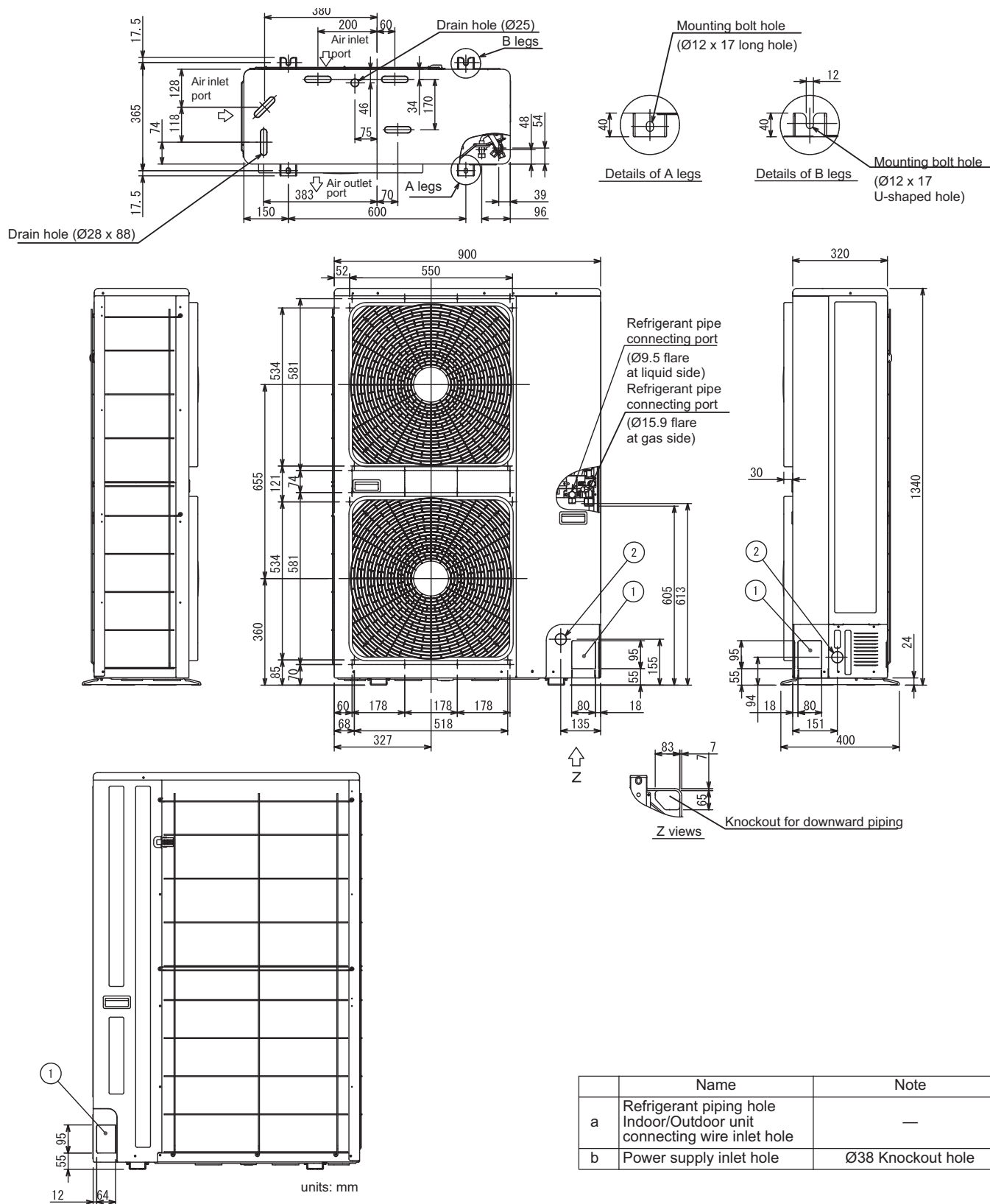


Dimensions - RAV-GP1101AT-E, RAV-GP1401AT-E - R32





Dimensions - RAV-SP1104AT8-E1, RAV-SP1404AT8-E1, RAV-SP1604AT8-E1 - R410A



Refrigerant replacement technology

Standard factory-fitted filter installed within the refrigerant circuit of Digital Inverter and Super Digital Inverter R410A and R32 refrigerant outdoor units, enables reuse of existing pipework designed for R22, R407C and other common refrigerants subject to correct installation procedures and standards. High-mesh filters and stable lubricant oil guard against chloride compounds, and combined with high-tech Toshiba control intelligence, make DI and SDI outdoor units compatible when reusing existing pipework installations. This solution offers significant benefits in terms of energy-efficiency and economy.

Replacement technology piping specification

Existing piping connection with different diameter gas and liquid line is possible using the criteria detailed below

Liquid Pipe Size "		1/4 (STD)				3/8 (1-size larger)			
Gas Pipe Size "		3/8 (STD)		1/2 (1-size larger)		3/8 (STD)		1/2 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m
RAV-DI Series 4 R410A Series 1 R32	SM30*	20	15	20	15	13	7.5	13	7.5

Liquid Pipe Size "		1/4 (STD)						3/8 (1-size larger)			
Gas Pipe Size "		3/8 (1-size smaller)		1/2 (STD)		5/8 (1-size larger)		1/2 (STD)		5/8 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m	m	m
RAV-DI Series 4 R410A Series 1 R32	SM/GM40*	20	15	20	15	20	15	13	7.5	13	7.5
	SM/GM56*			30	20	30	20	20	10	20	10
RAV-SDI Series 4 R410A Series 1 R32	SP/GP40*	30	20	30	20	30	20	20	10	20	10
	SP/GP56*			50	20	50	20	20	10	20	10

Liquid Pipe Size "		1/4 (1-size smaller)				3/8 (STD)						1/2 (1-size larger)			
Gas Pipe Size "		1/2 (1-size smaller)		5/8 (STD)		1/2 (1-size smaller)		5/8 (STD)		3/4 (1-size larger)		5/8 (STD)		3/4 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m	m	m	m	m	m	m
RAV-DI Series 4 R410A Series 1 R32	SM/GM80*	20	20	20	20	30	20	30	20	30	20				
	SM/GM110*							50	30	50	30	25	15	25	15
	SM/GM140*							50	30	50	30	25	15	25	15
RAV-DI Series 3 R410A	SM160*							50	30	50	30	25	15	25	15
RAV-SDI Series 4 R410A Series 1 R32	SP/GP80*	30	20	30	20	50	30	50	30	50	30				
	SP/GP110*							75	30	75	30	25	15	25	15
	SP/GP140*							75	30	75	30	25	15	25	15
	GP160*							75	30	75	30	25	15	25	15

Liquid Pipe Size "		1/2 (STD)				5/8 (1-size larger)			
Gas Pipe Size "		7/8 (1-size smaller)		1-1/8 (STD)		7/8 (1-size smaller)		1-1/8 (STD)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m
RAV-DI Series 4 R410A	SM224*	70	30	70	30	50	20	50	20
	SM280*	70	30	70	30	50	20	50	20

Common Refrigerants For Existing Plant

R12
R134a
R22
R404A
R407C
R417A

Smaller Pipe Sizes (Performance capacity is reduced due to the effect of gas pipe size being smaller than standard connection)

Normal Pipe Sizes

Larger Pipe Sizes

Not Compatible

VRF Outdoor Units

VRF



In 2004, Toshiba launched into the market an all-inverter VRF system that would revolutionise the industry and set a new benchmark in system efficiencies. Today, the all-new MiNi SMMSe, SMMSe and SHRMe ranges have taken this philosophy and again pushed the barriers of what is achievable. Thanks to Toshiba's unique compressor technology, redesigned heat exchanger and Toshiba's "intelligent flow" technology for perfect refrigerant management, energy costs are sent plummeting, while comfort remains as outstanding as ever.

- All-inverter infinite variable control
- Twin-rotary compressor
- Intelligent flow technology
- Advanced heat exchanger design
- Wave Tool (available on SMMSe and SHRMe models)



The innovative evolution of the many technical components and controls, ensures an optimal balance of temperature, humidity and air freshness, while simultaneously realising maximum energy-efficiency, minimum operating costs and reduced CO₂ emissions.

- Extended operating range with optimised heating and cooling
- Super-silent performance
- Simplified and easy-to-use controls



Quality and reliability is at the heart of everything we do. Toshiba engineers are dedicated to finding the best product solutions for you, the end-user, investor and designer. All major components are engineered and manufactured by Toshiba, ensuring maximum performance, reliability and efficiency.

- Dual vane technology
- Compressor back-up
- Dedicated oil management
- Condensing unit modulation control
- In-house engineering





VRF Outdoor Unit Overview

Nominal Cooling Capacity	kW	12.1	14.0	15.5	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.5
Nominal Heating Capacity	kW	13.2	14.2	15.5	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	76.5	81.5
	hp	4	5	6	8	10	12	14	16	18	20	22	24	26

	2-pipe MINi SMMSe single fan Full Spec Page 136	1 phase	£2,908	£3,143											
		Model Reference MCY-MHP	0406HT-E	0506HT-E											
	2-pipe MINi SMMSe Full Spec Page 136	1 phase	£3,839	£4,356	£4,691										
		Model Reference MCY-MHP	0404HS-E	0504HS-E	0604HS-E										
	2-pipe SMMSe Full Spec Page 144	3 phase				£6,461	£7,076	£7,859	£9,829	£10,234	£11,258	£12,046	£12,889	£15,718	£17,688
		Model Reference MMY-MAP				0806 HT8P-E	1006 HT8P-E	1206 HT8P-E	1406 HT8P-E	1606 HT8P-E	1806 HT8P-E	2006 HT8P-E	2206 HT8P-E	2416 HT8P-E	2616 HT8P-E
	2-pipe SMMSe (High Efficiency) Full Spec Page 150	3 phase										£14,152	£14,935		
		Model Reference MMY-MAP										2026 HT8P-E	2226 HT8P-E		
	3-pipe SHRMe Full Spec Page 160	3 phase				£6,615	£7,196	£9,908	£10,403	£11,755	£12,575	£13,453	£17,104	£17,599	£20,311
		Model Reference MMY-MAP				0806 FT8P-UK	1006 FT8P-UK	1206 FT8P-UK	1406 FT8P-UK	1606 FT8P-UK	1806 FT8P-UK	2006 FT8P-UK	2216 FT8P-UK	2416 FT8P-UK	2616 FT8P-UK
	3-pipe SHRMe (High Efficiency) Full Spec Page 164	3 phase								£13,230	£13,811	£14,392		£19,845	£20,426
		Model Reference MMY-MAP								1626 FT8P-UK	1826 FT8P-UK	2026 FT8P-UK		2426 FT8P-UK	2626 FT8P-UK



VRF Outdoor Unit Overview (continued)

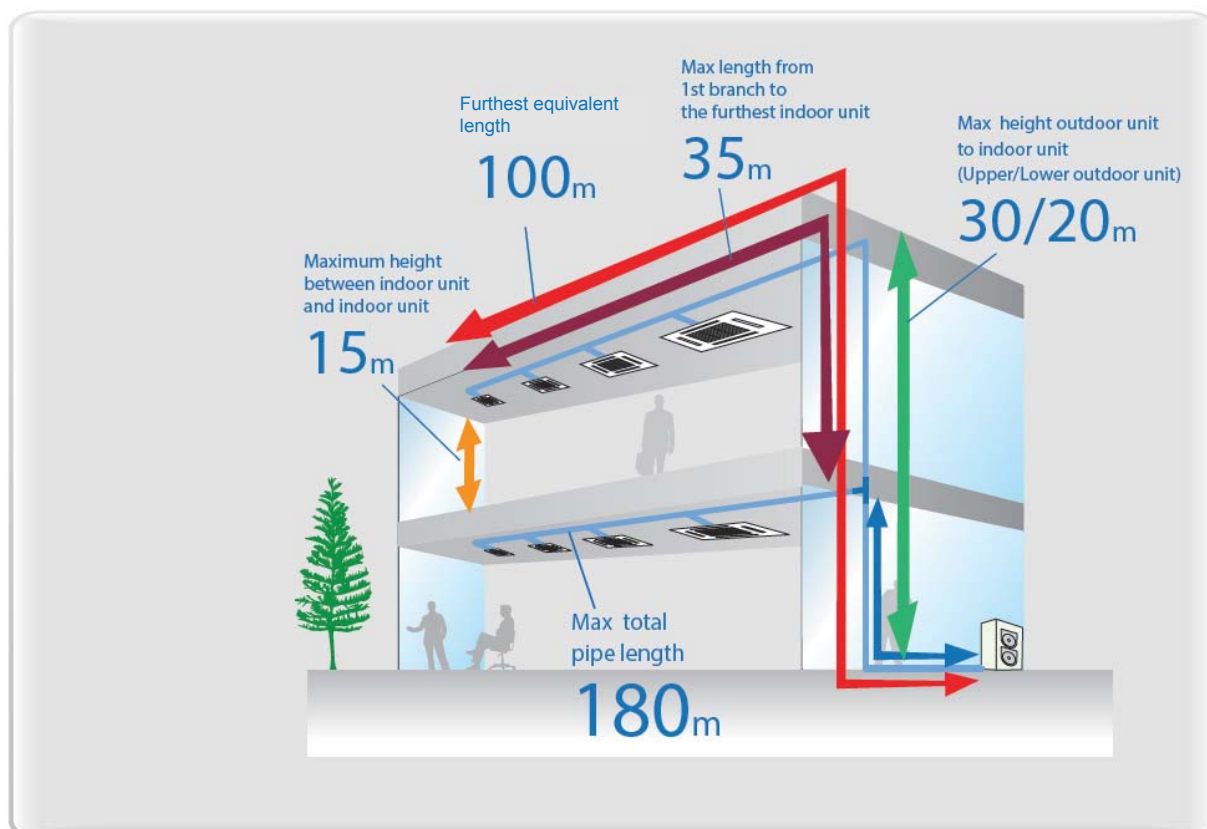
78.5	85.0	90.0	95.4	101.0	106.5	112.0	117.5	123.0	130.0	135.0	140.4	146.0	151.5	157.0	162.5	168.0
87.5	95.0	100.0	106.0	113.0	114.0	126.0	127.0	128.0	145.0	150.0	156.0	163.0	164.0	176.0	177.0	178.0
28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
£18,093	£20,063	£20,468	£21,492	£22,280	£23,123	£24,092	£24,935	£25,778	£30,297	£30,702	£31,726	£32,514	£33,357	£34,326	£35,169	£36,012
2816 HT8P-E	3016 HT8P-E	3216 HT8P-E	3416 HT8P-E	3616 HT8P-E	3816 HT8P-E	4016 HT8P-E	4216 HT8P-E	4416 HT8P-E	4616 HT8P-E	4816 HT8P-E	5016 HT8P-E	5216 HT8P-E	5416 HT8P-E	5616 HT8P-E	5816 HT8P-E	6016 HT8P-E
				£23,577	£25,547	£27,517	£29,487	£29,892					£33,921			
				3626 HT8P-E	3826 HT8P-E	4026 HT8P-E	4226 HT8P-E	4426 HT8P-E					5426 HT8P-E			
£20,806	£22,158	£22,978	£24,330	£25,150	£26,028	£26,906	£31,209									
2816 FT8P-UK	3016 FT8P-UK	3216 FT8P-UK	3416 FT8P-UK	3616 FT8P-UK	3816 FT8P-UK	4016 FT8P-UK	4216 FT8P-UK									
£21,007	£21,588			£29,724			£29,724									
2826 FT8P-UK	3026 FT8P-UK			3626 FT8P-UK			4226 FT8P-UK									

Flexible intallation design

The MiNi SMMSe offers greater flexibility for design and installation by offering high performance levels that defy their compact size to deliver greater indoor comfort for any building layout.

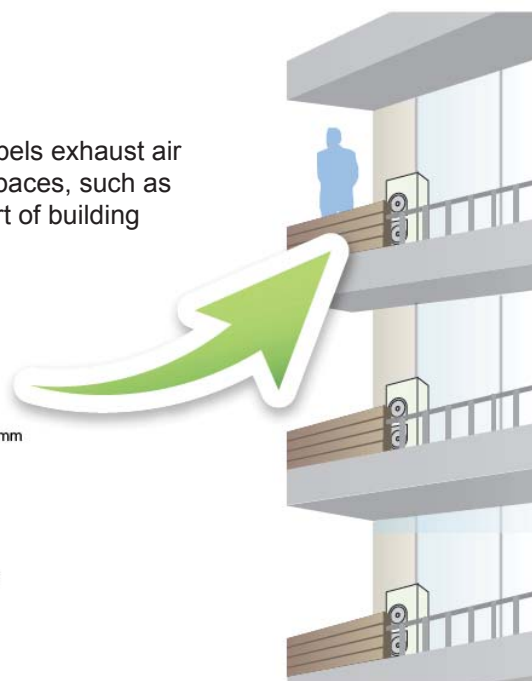
Maximum piping length

The MiNi SMMSe's enhanced piping capabilities result in more benefits for system design, installation flexibility, as well as lower installation costs.



MiNi SMMSe is suitable for balconies

The MiNi SMMSe outdoor unit is compact and expels exhaust air to the side, so it can be installed even in limited spaces, such as balconies as shown, without disturbing the comfort of building occupants.



VRF Outdoor Units - MiNi SMMSe



Air Conditioning For Small And Medium-Sized Buildings

Toshiba's MiNi SMMSe is designed for small and medium-sized buildings, where optimum performance is required for a variety of commercial applications such as shops, offices, large dwellings - where unobtrusive appearance and quiet operation are important. The MiNi SMMSe's flexible configuration allows operation of up to nine indoor units and is available in three capacities up to 6 hp.

FEATURES

Higher energy savings

MiNi SMMSe achieves world-class COP and EER thanks to an integrated combination of Toshiba's advanced twin-rotary compressor, vector-controlled inverter and heat exchanger technologies.

Higher comfort and simplicity

A single outdoor unit is powerful enough to accommodate independently-controlled indoor units, delivering ideal quiet comfort to every room.

Superior installation flexibility

MiNi SMMSe's small footprint allows for fast and easy installation. Furthermore, a maximum piping extension affords unprecedented configuration flexibility, making this unit ideal for a wide variety of applications.

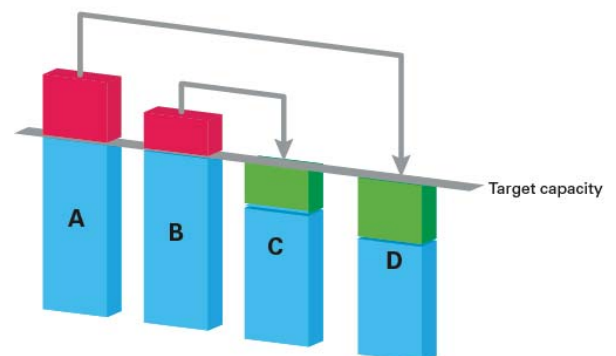
Wide indoor unit line-up

The wide choice of indoor unit models increases design flexibility and reduces costs to the building owner by ensuring the most appropriate system is installed.



Intelligent Flow Technology

The unique Intelligent Flow Technology control continually adjusts the operation of both indoor and outdoor units, based on feedback from multiple sensors. While the refrigerant flow to each indoor unit is precisely controlled by the outdoor unit, ensuring even capacity distribution throughout the system, the evaporative and condensing temperature is automatically adjusted to maintain optimum indoor room temperature, regardless of the unit's load or its physical distance from the outdoor unit.



Excess capacity in units A & B can be re-distributed to units C & D, ensuring perfect operation throughout the entire system. Toshiba "IFT" technology ensures that any surplus capacity can be re-distributed in order to achieve optimum performance and efficiency throughout the entire system.



MiNi SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit/Single Fan VRF 2-Pipe Heat Pump Outdoor Unit

CODE		121	140	121	140	155	
Model Name Heat Pump		MCY-	MHP0406HT-E	MHP0506HT-E	MHP0404HS-E	MHP0504HS-E	MHP0604HS-E
Capacity Range		hp	4	5	4	5	6
Maximum Number of Indoor Units		QTY	8	10	8	10	13
Cooling Capacity		kW	12.1	14.0	12.1	14.0	15.5
Heating Capacity		kW	12.5	16.0	12.5	16.0	18.0
Operating Range Cooling/Heating		°C	-5 to 46/-25 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15
Cooling	Power Consumption	kW	3.24	3.50	2.83	3.50	4.29
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.73/8.08/320.2	3.55/7.88/312.2	4.28/9.42/373.8	4.00/9.23/366.2	3.61/9.68/384.2
Heating	Power Consumption	kW	2.83	3.86	2.59	3.75	4.31
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.42/3.83/150.2	4.15/3.88/152.2	4.83/4.17/163.8	4.27/4.24/166.6	4.18/4.37/171.8
Fan(s)	Standard Air Flow H	l/s	1117	1183	1572	1617	1681
	Standard Air Flow H	m³/h	4020	4260	5660	5820	6050
Sound	Pressure Level C/H	dB(A)	54/57	54/58	49/52	50/53	51/54
	Power Level C/H	dB(A)	71/74	71/75	66/69	68/70	68/71
Unit	Height x Width x Depth	mm	910 x 990 x 390	910 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390
	Weight	kg	100	100	127	127	127
	Refrigerant Base Charge	kg	3.3	3.3	6.4	6.4	6.4
Pipe Connections	Suction Gas Pipe Flare	inch	5/8	5/8	5/8	5/8	3/4
	Liquid Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	60	60	125	125	125
	Real Length	m	50	50	100	100	100
	Total Pipe Length (Liquid Line Real Length)	m	90	90	180	180	180
	Length To First Branch	m	30	30	65	65	65
	Real Length of Indoor Unit Connecting Piping	m	10	10	15	15	15
	Height Difference Outdoor Higher Than Indoor Units	m	15	15	30	30	30
	Height Difference Outdoor Lower Than Indoor Units	m	15	15	20	20	20
	Height Difference Between Indoor Units	m	10	10	15	15	15
	Electrical	Electrical Characteristic Run Current Cooling/Heating	A	14.4/13.4	18.7/18.3	13.0/12.0	15.9/17.0
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply(s)	A	20	25	20	25	25
OUTDOOR RETAIL PRICE			£2,908	£3,143	£3,839	£4,356	£4,691

Accessories

RBM-BY55E	VRF 2-pipe Y Joint	MiNi SMMSe Capacities below 6.4 hp	£61
RBM-HY1043E	VRF 2-pipe 4-way Header	MiNi SMMSe Capacities below 14.2 hp	£134
RBM-HY1083E	VRF 2-pipe 8-way Header	MiNi SMMSe Capacities below 14.2 hp	£156
RBM-PMV0363E	VRF 2-pipe Valve Kit	MiNi SMMSe Capacities 0.8 - 1.25 hp	£155
RBM-PMV0903E	VRF 2-pipe Valve Kit	MiNi SMMSe Capacities 1.7 - 2.5 hp	£179

Pulse Modulating Valve Kit	RBM-	PMV0363E	PMV0903E
Indoor Unit Capacity Rank		007 - 012	015 - 024
Height x Length x Depth	mm	161 x 336 x 58	161 x 336 x 58
Weight	kg	2.3	2.5
Standard 6 Core Connection Cable Max. Length	m	10	10
Conversion Cable Max. Length (All Indoors Except MMK-AP###H Type)	m	1	1
Power Supply From Local or Group Indoor Unit		12 V DC	12 V DC
Liquid Pipes	inch	1/4	1/4
Accessory Joint Liquid Reducer	inch	-	3/8 - 1/4
Real Length Min. Distance To Indoor	m	2	2
Real Length Max. Distance To Indoor	m	10	10
Max. Height Difference Between PMV Kits	m	15	15

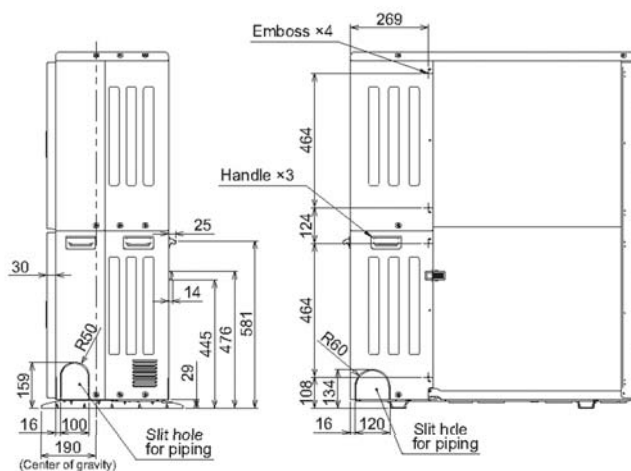
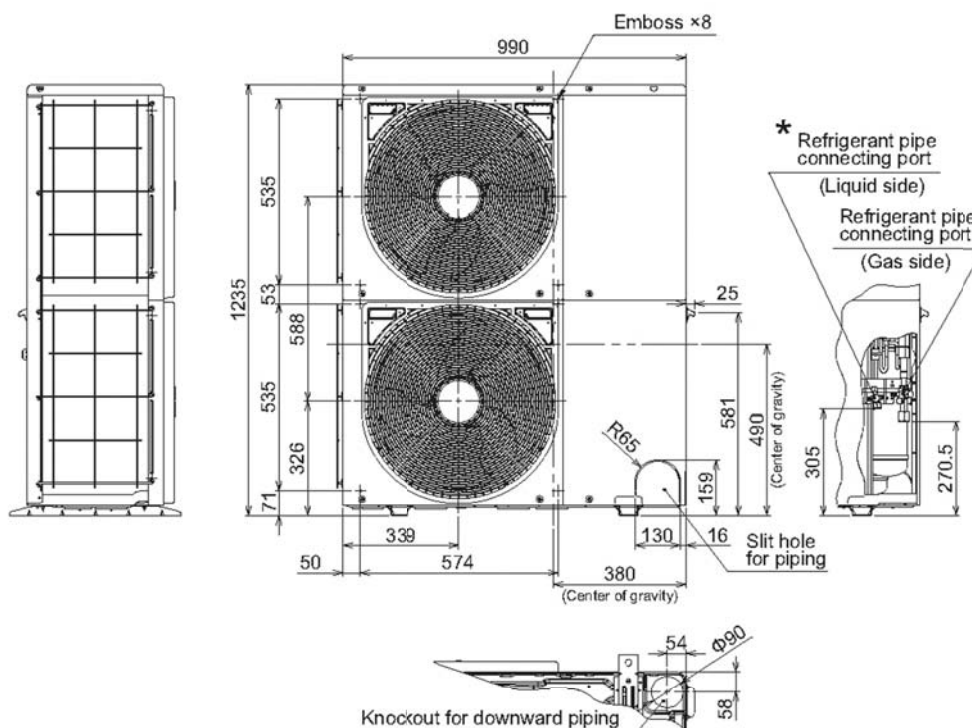
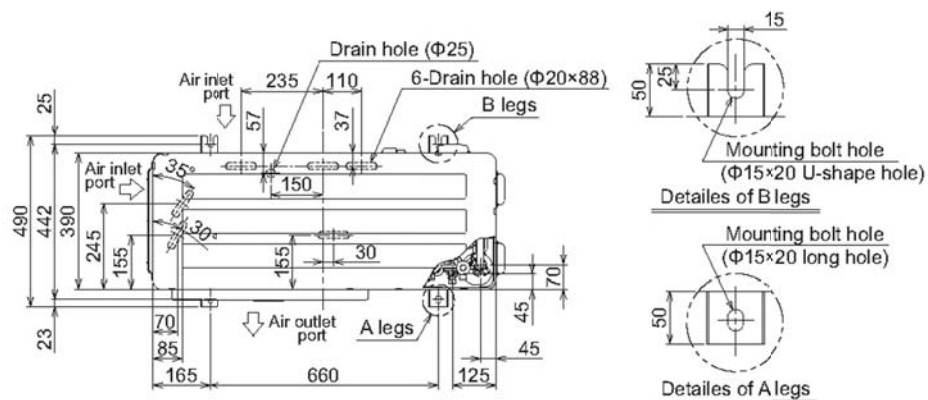


Mini
SMMSe





Dimensions - MCY-MHP0404HS-E, MCY-MHP0504HS-E, MCY-MHP0604HS-E



	* Diameter of pipe connecting port		Diameter of connecting pipe	
	Liquid side	Gas side	Liquid side	Gas side
MCY-MHP0404HS-E MCY-MHP0404HSJ-E	φ 9.52	φ 15.88	φ 9.52	φ 15.88
MCY-MHP0504HS-E MCY-MHP0504HSJ-E	φ 9.52	φ 15.88	φ 9.52	φ 15.88
MCY-MHP0604HS-E MCY-MHP0604HSJ-E	φ 9.52	φ 19.05	φ 9.52	φ 19.05

(Unit:mm)

VRF Outdoor Units - SMMSe

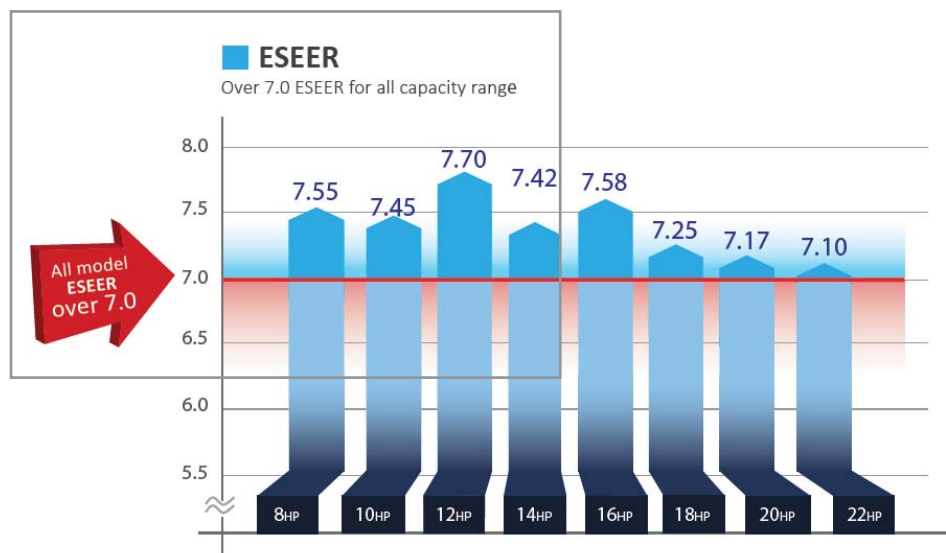


Air Conditioning For Large Buildings

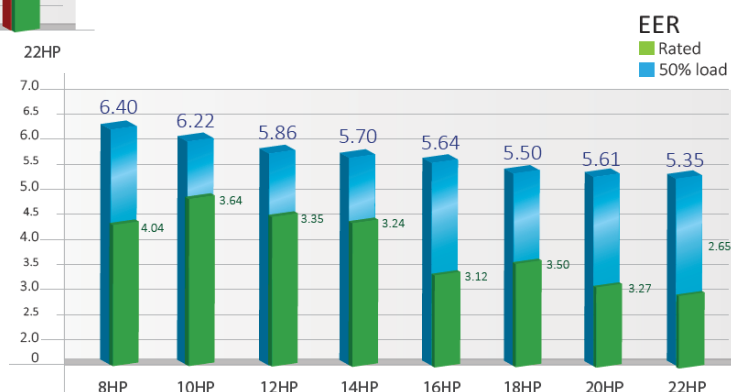
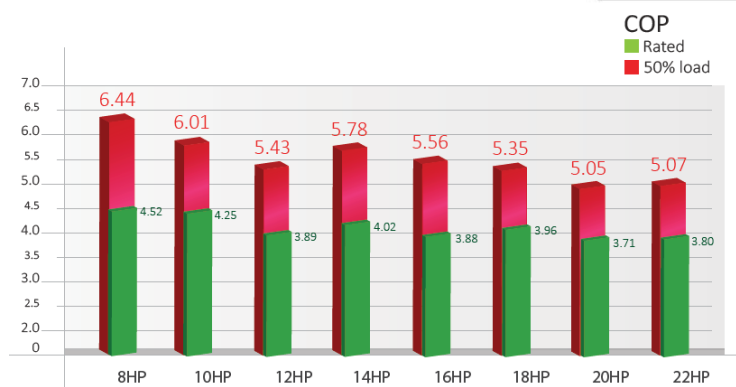
Toshiba's SMMSe is designed for large buildings. Developed under the concept of three "Es" - Excellence, Expansion and Enhancement - it offers a large capacity of up to 22 hp on a single module and up to 60 hp in a single interconnected system, with up to 64 connected indoor units. SMMSe incorporates revolutionary hands-free Wave Tool technology that allows contactless commissioning and diagnostics to be carried out using a smartphone application, without ever having to open the cover of the outdoor unit.

Greater energy-efficiency performance

Thanks to the adoption of the new high energy-efficient DC twin-rotary compressor and other cutting-edge technologies, these units have achieved an ESEER of over 7.00 across the entire capacity range. The overall capacity range and the highest COP and EER of 6.44 and 6.40, the SMMSe truly excels as the industry's top class in energy saving.



Utilising the new highly-efficient core technologies has resulted in greater energy efficiency and performance.



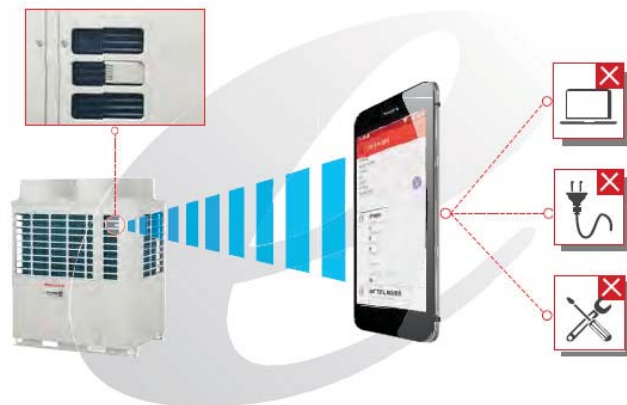
TOSHIBA

New Wireless Commissioning And Operating Data Checking System

With SMMS Wave Tool, data from the outdoor unit can be read and accessed directly on your smart phone without the need for connecting a PC or even opening the service cabinet.

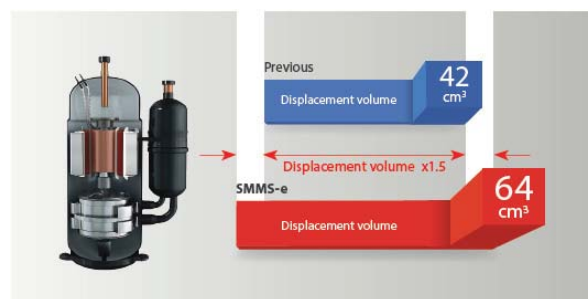
Available data

Whether it is product data, system data, fault history or results of testing and commissioning, all can now be obtained easily when undertaking service maintenance or even after power failure. The data can all be sent to the remote office via email allowing operating conditions to be checked remotely in the office without having to be on-site.



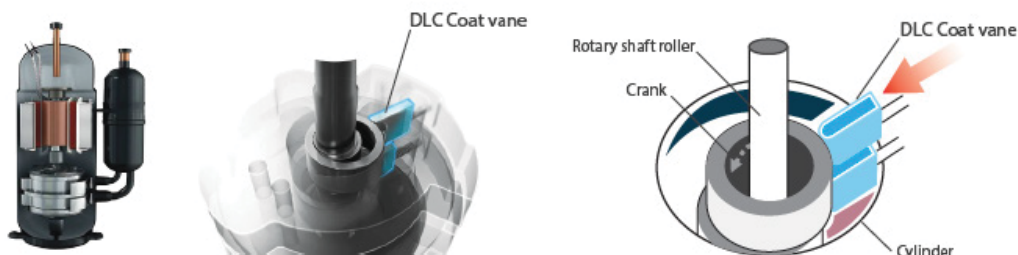
DC twin-rotary compressor

More powerful and efficient using cutting-edge technology the DC twin-rotary compressor is able to operate with greater rotation speeds.



DLC-coated vane

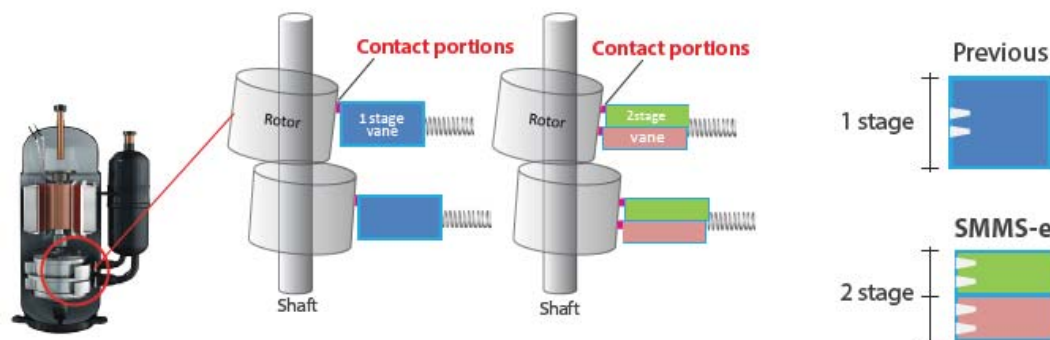
Increased hardness of the DLC-coated vanes reduces friction and increases both reliability and performance.



* DLC: Diamond Like Carbon

2-stage vane

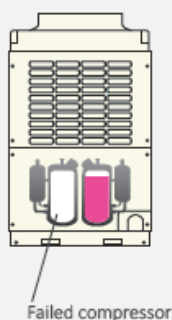
The innovative 2-stage vane design also reduces friction while at the same time increasing hardness leading to enhanced performance.



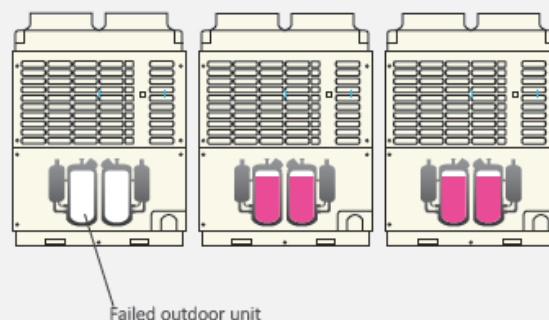
Reliability - back-up operation

In case of a compressor failure, SMMSe units can keep working with the back-up operation under All Inverter Control to compensate a failed compressor or header unit. This back-up operation is available in both a single system or as a module.

Single outdoor unit backup

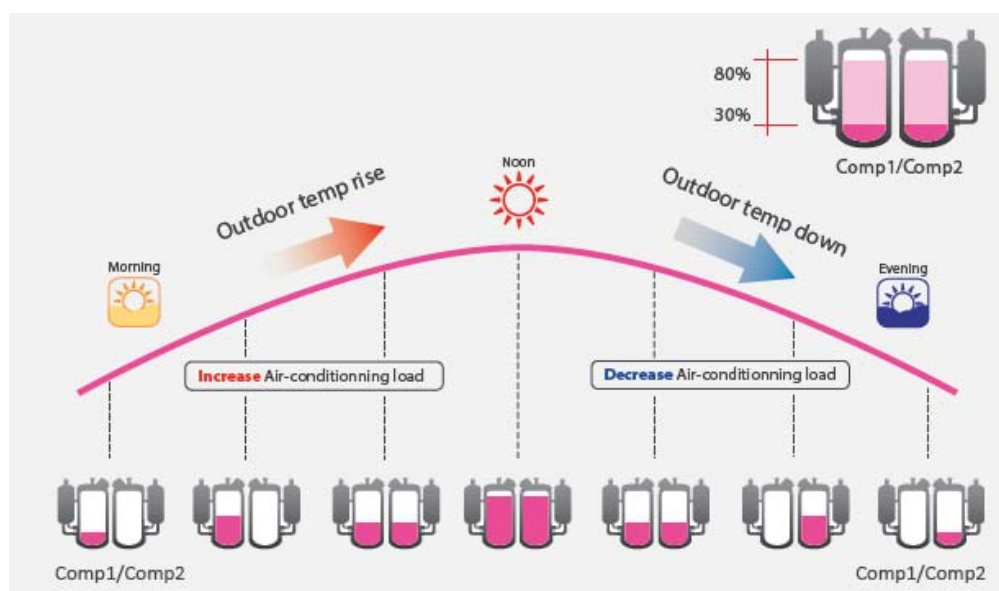


Module outdoor unit backup



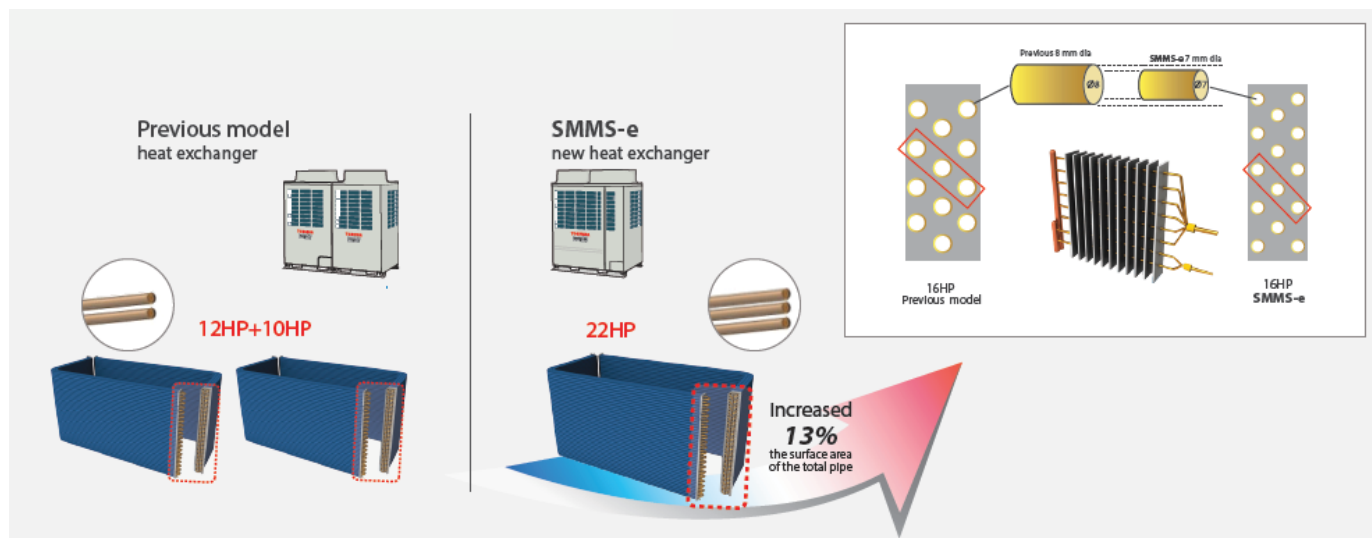
Reliability-rotational control

The rotational control in SMMSe units is designed to improve system reliability by controlling the operation of each compressor to work equally under variable conditions.



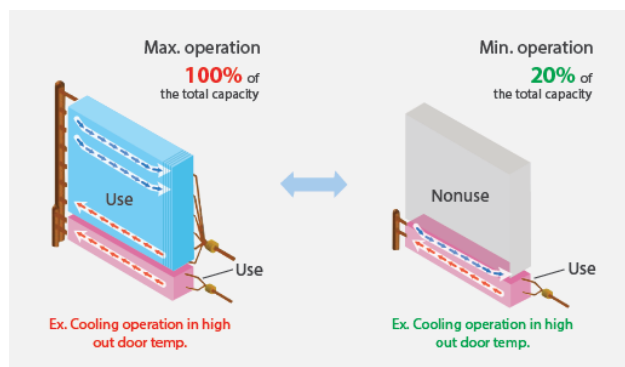
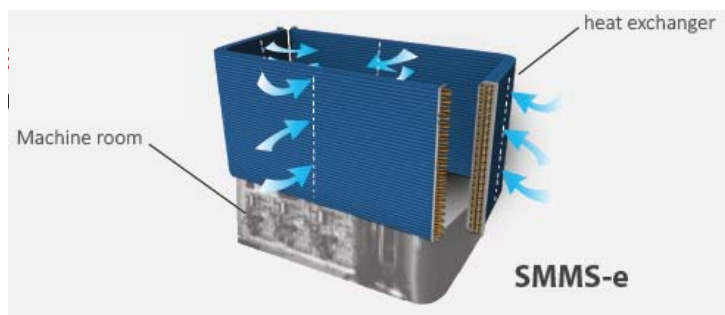
New heat exchanger

The new heat exchanger used in the SMMSe outdoor units increases from 2 to 3 rows, providing 13% more total pipe surface area.



Variable heat exchanger

New system controls allow the SMMSe outdoor unit to select the most efficient heat exchanger size according to the capacity load and so provide higher energy savings.

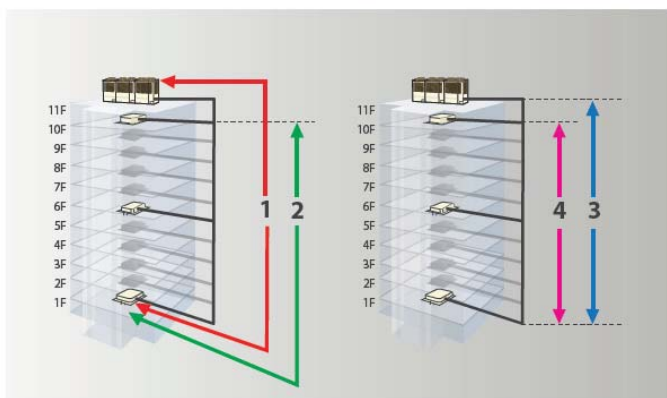


4-way heat exchanger for balanced air flow

Heat exchangers are located on all four sides of the outdoor unit, ensuring air flow is equal in all directions.

Larger Single Unit Capacity And Piping Design Flexibility

SMMSe units are now available with 3 new larger capacity models, producing up to 22 hp on a single module platform. Piping capability can provide more benefits for system design, installation flexibility and reduction in installation costs.



Total length	1,000m*
1. Farthest equivalent length	235m
2. Farthest pipe from 1 st branch	90m**
3. Height between outdoor unit - indoor unit (outdoor unit above/below)	90m*** / 40m
4. Height between indoor unit - indoor unit	40m

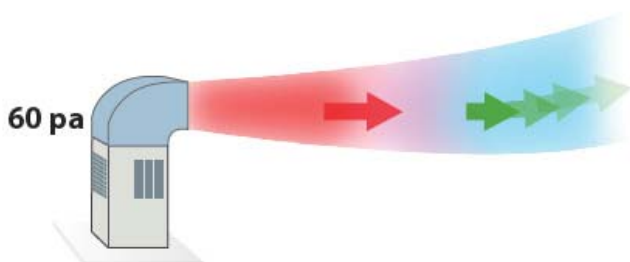
* : 34HP combination or more

** : 65m if the height piping length between outdoor unit and indoor unit is more than 3m

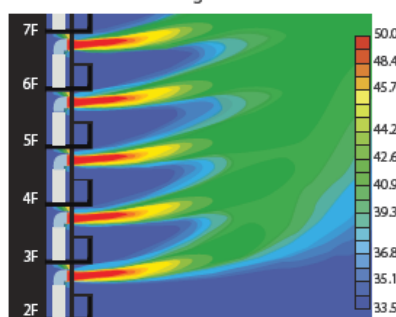
*** : Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

External static pressure

The SMMSe units are suitable for challenging installations where high external static pressure performance is required.



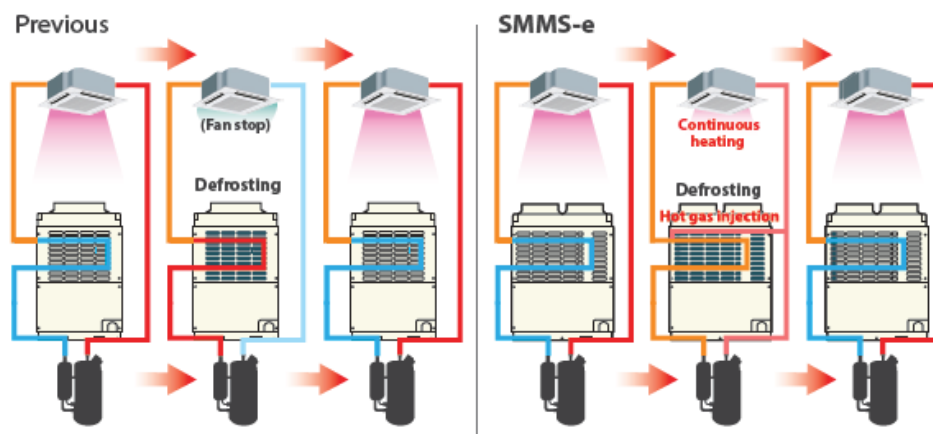
Air flow simulation diagram



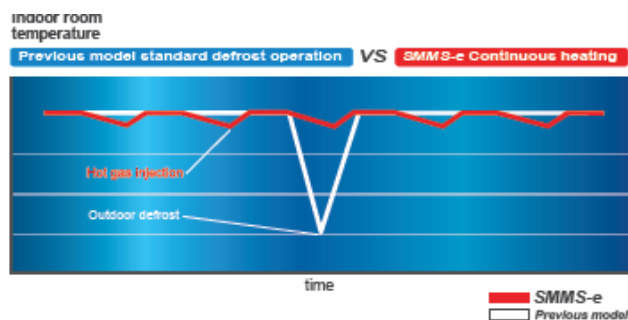
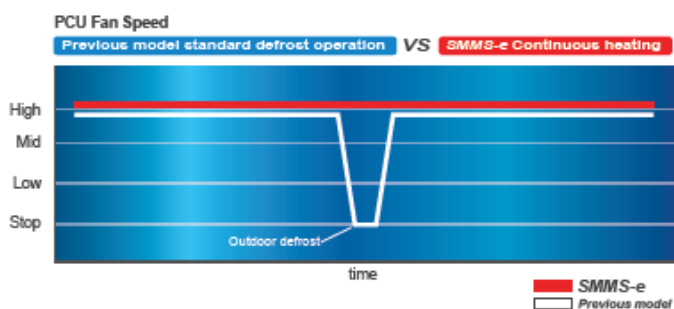
Note : This result is analytical simulation, that does not guarantee actual temperatures.

Continuous heating

New design and control logic enables continuous heating during defrost operation.



Hot gas bypass into the outdoor unit heat exchanger enables the indoor units to operate in heating mode for longer periods of time when compared to the previous model. Hot gas injection can be used also to identify the amount of frosting on the outdoor coil, so that outdoor unit defrosts occur only when absolutely required.





SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit

CODE		224	280	335	400	450
Combination		MMY-				
Model Name Heat Pump		MMY-	MAP0806HT8P-E	MAP1006HT8P-E	MAP1206HT8P-E	MAP1406HT8P-E
Capacity Range		hp	8	10	12	14
Maximum Number of Indoor Units		QTY	18	22	27	31
Cooling Capacity		kW	22.4	28.0	33.5	40.0
Heating Capacity		kW	25.0	31.5	37.5	45.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	5.54	7.69	10.0	12.3
	EER/SEER/Energy Efficiency Class (or ηsc %)		4.04/6.24/246.6	3.64/6.15/243.0	3.35/6.03/238.2	3.25/5.69/224.6
Heating	Power Consumption	kW	5.53	7.41	9.65	11.2
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.52/3.64/142.6	4.25/3.54/138.6	3.89/3.67/143.8	4.02/3.57/139.8
Fan(s)	Standard Air Flow H	l/s	2694	2694	3389	3389
	Standard Air Flow H	m³/h	9700	9700	12200	12200
Sound	External Static Pressure	Pa	60	60	50	50
	Pressure Level C/H	dB(A)	55/56	57/58	59/61	60/62
Unit(s)	Power Level C/H	dB(A)	74/74	74/74	80/82	80/82
	Height x Width x Depth	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780
Pipe Connections	Weight	kg	242	242	242	300
	Refrigerant Base Charge	kg	11.5	11.5	11.5	11.5
Maximum	Suction Gas Pipe Brazing	inch	3/4	7/8	1-1/8	1-1/8
	Liquid Pipe Flare	inch	1/2	1/2	1/2	5/8
Electrical	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
	Equivalent Length	m	210	210	210	210
Accessories	Real Length	m	170	170	170	170
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300
Electrical	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
Electrical	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
Electrical	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	8.79/8.77	12.10/11.60	15.50/15.00	19.50/17.80
Electrical	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Electrical	Suggested Fused Supply(s)	A	20	25	25	32
						40
OUTDOOR RETAIL PRICE		£6,461	£7,076	£7,859	£9,829	£10,234

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		504	560	615	670	735
Combination		MMY-			AP2416HT8P-E	AP2616HT8P-E
Model Name Heat Pump		MMY-	MAP1806HT8P-E	MAP2006HT8P-E	MAP2206HT8P-E	MAP1206HT8P-E MAP1206HT8P-E MAP1206HT8P-E
Capacity Range		hp	18	20	22	24
Maximum Number of Indoor Units		QTY	40	45	49	54
Cooling Capacity		kW	50.4	56.0	61.5	67.0
Heating Capacity		kW	56.0	63.0	64.0	75.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	14.6	17.3	23.2	20.0
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.45/6.01/237.4	3.24/5.74/226.6	2.65/5.07/136.6	3.35/6.03/238.2
Heating	Power Consumption	kW	14.1	17.0	17.1	19.3
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.97/3.59/140.6	3.71/3.60/141	3.74/3.49/136.6	3.89/3.67/143.8
Fan(s)	Standard Air Flow H	l/s	4806	4972	5139	3389 + 3389
	Standard Air Flow H	m³/h	17300	17900	18500	12200 + 12200
Sound	External Static Pressure	Pa	50	40	40	50
	Pressure Level C/H	dB(A)	60/61	61/62	61/62	62/64
Unit(s)	Power Level C/H	dB(A)	81/83	82/84	83/84	83/85
	Height x Width x Depth	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 2000 x 780
	Weight	kg	371	371	371	242 + 242
Pipe Connections	Refrigerant Base Charge	kg	11.5	11.5	11.5	11.5 + 11.5
	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8
	Liquid Pipe Flare	inch	5/8	5/8	3/4	3/4
Maximum	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
	Equivalent Length	m	210	210	210	220
	Real Length	m	170	170	170	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300
	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	22.90/22.10	26.80/26.10	35.60/26.50	31.00/30.00
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	40	40	50	25 + 25
OUTDOOR RETAIL PRICE		£11.258	£12.046	£12.889	£15.718	£17.688

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		785	850	900	954	1010	
Combination		MMY-	AP2816HT8P-E	AP3016HT8P-E	AP3216HT8P-E	AP3416HT8P-E	AP3616HT8P-E
Model Name Heat Pump		MMY-	MAP1606HT8P-E MAP1206HT8P-E	MAP1606HT8P-E MAP1406HT8P-E	MAP1606HT8P-E MAP1606HT8P-E	MAP1806HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP1606HT8P-E
Capacity Range		hp	28	30	32	34	36
Maximum Number of Indoor Units		QTY	63	64	64	64	64
Cooling Capacity		kW	78.5	85.0	90.0	95.4	101.0
Heating Capacity		kW	87.5	95.0	100.0	106.0	113.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	24.3	26.6	28.6	28.9	31.6
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.23/5.65/223.0	3.20/5.50/217.0	3.15/5.33/210.2	3.30/5.69/224.6	3.20/5.56/219.4
Heating	Power Consumption	kW	22.6	24.1	25.8	27.0	29.9
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.88/3.69/144.6	3.94/3.60/141.0	3.88/3.70/145.0	3.93/3.64/142.6	3.78/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	3500 + 3389	3500 + 3389	3500 + 3500	4806 + 3500	4972 + 3500
	Standard Air Flow H	m³/h	12600 + 12200	12600 + 12200	12600 + 12600	17300 + 12600	17900 + 12600
Sound	External Static Pressure	Pa	40	40	40	40	40
	Pressure Level C/H	dB(A)	64/66	64.5/66.5	65/67	64.5/66	64.5/66.5
Unit(s)	Power Level C/H	dB(A)	83.5/85.5	83.5/85.5	84/86	84/86	84.5/86.5
	Height x Width x Depth	mm	1830 x 2220 x 780	1830 x 2440 x 780	1830 x 2440 x 780	1830 x 2830 x 780	1830 x 2830 x 780
Pipe Connections	Weight	kg	300 + 242	300 + 300	300 + 300	371 + 300	371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
Maximum	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4	7/8
Electrical	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
	Equivalent Length	m	220	220	220	220	220
Electrical	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	1000	1000
Electrical	Length To First Branch	m	100	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
Electrical	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40	40
Electrical	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	37.90/35.20	41.90/38.00	44.80/40.40	45.30/42.30	49.20/46.30
Electrical	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	40 + 25	40 + 32	40 + 40	40 + 40	40 + 40
OUTDOOR RETAIL PRICE			£18.093	£20.063	£20.468	£21.492	£22.280

OUTDOOR RETAIL PRICE	£18,093	£20,063	£20,468	£21,492	£22,280
-----------------------------	----------------	----------------	----------------	----------------	----------------

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1065	1120	1175	1230	
Combination		MMY-	AP3816HT8P-E	AP4016HT8P-E	AP4216HT8P-E	AP4416HT8P-E
Model Name Heat Pump		MMY-	MAP2206HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-E	MAP2206HT8P-E MAP2206HT8P-E	MAP2206HT8P-E MAP2206HT8P-E
Capacity Range		hp	38	40	42	44
Maximum Number of Indoor Units		QTY	64	64	64	64
Cooling Capacity		kW	106.5	112.0	117.5	123.0
Heating Capacity		kW	114.0	126.0	127.0	128.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	37.5	34.6	40.5	46.4
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.84/5.20/205.0	3.24/5.74/226.6	2.90/5.40/213.0	2.65/5.07/199.8
Heating	Power Consumption	kW	30.0	34.0	34.1	34.2
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.80/3.59/140.6	3.71/3.60/141.0	3.72/3.55/139.0	3.74/3.49/136.6
Fan(s)	Standard Air Flow H	l/s	5139 + 3500	4972 + 4972	5139 + 4972	5139 + 5139
	Standard Air Flow H	m³/h	18500 + 12600	17900 + 17900	18500 + 17900	18500 + 18500
Sound	External Static Pressure	Pa	40	40	40	40
	Pressure Level C/H	dB(A)	64.5/66.5	64/65	64/65	64/65
Unit(s)	Power Level C/H	dB(A)	85.5/86.5	85/87	85.5/87	86/87
	Height x Width x Depth	mm	1830 x 2830 x 780	1830 x 3220 x 780	1830 x 3220 x 780	1830 x 3220 x 780
Pipe Connections	Weight	kg	371 + 300	371 + 371	371 + 371	371 + 371
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
Maximum	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
Electrical	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
	Equivalent Length	m	220	220	220	220
Electrical	Real Length	m	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
Electrical	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
Electrical	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
Electrical	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	58.00/46.70	53.60/52.20	62.40/52.60	71.20/53.00
Electrical	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Electrical	Suggested Fused Supply(s)	A	50 + 40	40 + 40	50 + 40	50 + 50
	OUTDOOR RETAIL PRICE		£23.123	£24.092	£24.935	£25.778

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1300	1350	1404	1460
Combination		MMY-	AP4616HT8P-E	AP4816HT8P-E	AP5016HT8P-E
Model Name Heat Pump		MMY-	MAP1606HT8P-E MAP1606HT8P-E MAP1406HT8P-E	MAP1606HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP1606HT8P-E MAP1606HT8P-E
Capacity Range		hp	46	48	50
Maximum Number of Indoor Units		QTY	64	64	64
Cooling Capacity		kW	130.0	135.0	140.4
Heating Capacity		kW	145.0	150.0	156.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	40.9	42.9	43.2
	EER/SEER/Energy Efficiency Class (or η _{sc} %)		3.18/5.44/214.6	3.15/5.33/210.2	3.25/5.58/220.2
Heating	Power Consumption	kW	37.0	38.7	39.9
	COP/SCOP/Energy Efficiency Class (or η _{sc} (A) %)		3.92/3.67/143.8	3.88/3.70/145.0	3.91/3.66/143.4
Fan(s)	Standard Air Flow H	l/s	3500 + 3500 + 3389	3500 + 3500 + 3500	4806 + 3500 + 3500
	Standard Air Flow H	m³/h	12600 + 12600 + 12200	12600 + 12600 + 12600	17300 + 12600 + 12600
	External Static Pressure	Pa	40	40	40
Sound	Pressure Level C/H	dB(A)	66.5/68.5	67/69	66.5/68
	Power Level C/H	dB(A)	85.5/87.5	86/88	86.5/88.5
Unit(s)	Height x Width x Depth	mm	1830 x 3670 x 780	1830 x 3670 x 780	1830 x 4060 x 780
	Weight	kg	300 + 300 + 300	300 + 300 + 300	371 + 300 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8
Maximum	Equivalent Length	m	185	185	185
	Real Length	m	145	145	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000
	Length To First Branch	m	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30
	Equivalent Length Between Branches	m	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40
	Height Difference Between Indoor Units	m	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	64.30/58.20	67.20/60.60	67.70/62.50
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	40 + 40 + 32	40 + 40 + 40	40 + 40 + 40
OUTDOOR RETAIL PRICE			£30,297	£30,702	£31,726

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1515	1570	1625	1680	
Combination		MMY-	AP5416HT8P-E	AP5616HT8P-E	AP5816HT8P-E	AP6016HT8P-E
Model Name Heat Pump		MMY-	MAP2206HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP2206HT8P-E MAP1606HT8P-E
Capacity Range		hp	54	56	58	60
Maximum Number of Indoor Units		QTY	64	64	64	64
Cooling Capacity		kW	151.5	157.0	162.5	168.0
Heating Capacity		kW	164.0	176.0	177.0	178.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	51.8	48.9	54.8	60.7
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.92/5.24/206.6	3.21/5.62/221.8	2.97/5.38/212.2	2.77/5.16/203.4
Heating	Power Consumption	kW	42.9	46.9	47.0	47.1
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.82/3.62/141.8	3.75/3.62/141.8	3.77/3.59/140.6	3.78/3.55/139.0
Fan(s)	Standard Air Flow H	l/s	5139 + 3500 + 3500	4972 + 4972 + 3500	5139 + 4972 + 3500	5139 + 5139 + 3500
	Standard Air Flow H	m³/h	18500 + 12600 + 12600	17900 + 17900 + 12600	18500 + 17900 + 12600	18500 + 18500 + 12600
	External Static Pressure	Pa	40	40	40	40
Sound	Pressure Level C/H	dB(A)	66.5/68.5	66.5/67.5	66.5/67.5	66.5/67.5
	Power Level C/H	dB(A)	86.5/88.5	86.5/88.5	87/88.5	87.5/88.5
Unit(s)	Height x Width x Depth	mm	1830 x 4060 x 780	1830 x 4450 x 780	1830 x 4450 x 780	1830 x 4450 x 780
	Weight	kg	371 + 300 + 300	371 + 371 + 300	371 + 371 + 300	371 + 371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	185	185	185	185
	Real Length	m	145	145	145	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	80.40/66.90	76.00/72.40	84.80/72.80	93.60/73.20
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	50 + 40 + 40	40 + 40 + 40	50 + 40 + 40	50 + 50 + 40
OUTDOOR RETAIL PRICE			£33,357	£34,326	£35,169	£36,012

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump High Efficiency Outdoor Unit

CODE		560	615	1005	1070
Combination		MMY-	AP2026HT8P-E	AP2226HT8P-E	AP3626HT8P-E
Model Name Heat Pump		MMY-	MAP1006HT8P-E MAP1006HT8P-E	MAP1206HT8P-E MAP1206HT8P-E MAP1206HT8P-E	MAP1406HT8P-E MAP1206HT8P-E MAP1206HT8P-E
Capacity Range		hp	20	22	36
Maximum Number of Indoor Units		QTY	45	49	64
Cooling Capacity		kW	56.0	61.5	100.5
Heating Capacity		kW	63.0	69.0	112.5
Operating Range Cooling/Heating		°C	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5
Cooling	Power Consumption	kW	15.4	17.7	30.0
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.64/6.15/243.0	3.48/6.11/241.4	3.35/6.03/238.2
Heating	Power Consumption	kW	14.8	17.1	29.0
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.25/3.54/243.0	4.04/3.61/241.4	3.89/3.67/238.2
Fan(s)	Standard Air Flow H	l/s	2694 + 2694	3389 + 2694	3389 + 3389 + 3389
	Standard Air Flow H	m³/h	9700 + 9700	12200 + 9700	12200 + 12200 + 12200
Sound	External Static Pressure	Pa	60	50	50
	Pressure Level C/H	dB(A)	60/61	61.5/63	64/66
Unit(s)	Power Level C/H	dB(A)	77/77	81/83	85/87
	Height x Width x Depth	mm	1830 x 2000 x 780	1830 x 2000 x 780	1830 x 3010 x 780
Pipe Connections	Weight	kg	242 + 242	242 + 242	242 + 242 + 242
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5 + 11.5
Maximum	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-5/8
	Liquid Pipe Flare	inch	5/8	3/4	7/8
Electrical	Balance Pipe Flare	inch	3/8	3/8	3/8
	Equivalent Length	m	220	220	235
Accessories	Real Length	m	180	180	190
	Total Pipe Length (Liquid Line Real Length)	m	300	300	1000
Electrical	Length To First Branch	m	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10
Electrical	Real Length Of Indoor Unit Connecting Piping	m	30	30	30
	Equivalent Length Between Branches	m	50	50	50
Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40
Electrical	Height Difference Between Indoor Units	m	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	24.20/23.20	27.60/26.60	46.50/45.00
Electrical	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Electrical	Suggested Fused Supply(s)	A	25 + 25	25 + 25	25 + 25 + 25
OUTDOOR RETAIL PRICE			£14,152	£14,935	£23,577
					£25,547

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump High Efficiency Outdoor Unit (continued)

CODE		1135	1200	1250	1520	
Combination		MMY-	AP4026HT8P-E	AP4226HT8P-E	AP4426HT8P-E	AP5426HT8P-E
Model Name Heat Pump		MMY-	MAP1406HT8P-E MAP1406HT8P-E MAP1206HT8P-E	MAP1406HT8P-E MAP1406HT8P-E MAP1406HT8P-E	MAP1606HT8P-E MAP1406HT8P-E MAP1406HT8P-E	MAP2006HT8P-E MAP2006HT8P-E MAP1406HT8P-E
Capacity Range		hp	40	42	44	54
Maximum Number of Indoor Units		QTY	64	64	64	64
Cooling Capacity		kW	113.5	120.0	125.0	152.0
Heating Capacity		kW	127.5	135.0	140.0	171.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5
Cooling	Power Consumption	kW	34.6	36.9	38.9	46.9
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.28/5.80/229.0	3.25/5.69/224.6	3.21/5.56/219.4	3.24/5.74/226.6
Heating	Power Consumption	kW	32.1	33.6	35.3	45.2
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.98/3.60/229.0	4.02/3.57/224.6	3.97/3.62/219.4	3.78/3.59/226.6
Fan(s)	Standard Air Flow H	l/s	3389 + 3389 + 3389	3389 + 3389 + 3389	3500 + 3389 + 3389	4972 + 4972 + 3389
	Standard Air Flow H	m³/h	12200 + 12200 + 12200	12200 + 12200 + 12200	12600 + 12200 + 12200	17900 + 17900 + 12200
Sound	External Static Pressure	Pa	50	50	40	40
	Pressure Level C/H	dB(A)	64.5/66.5	65/67	65.5/67.5	65.5/67
Unit(s)	Power Level C/H	dB(A)	85/87	85/87	85.5/87.5	86.5/88.5
	Height x Width x Depth	mm	1830 x 3450 x 780	1830 x 3670 x 780	1830 x 3670 x 780	1830 x 4450 x 780
Pipe Connections	Weight	kg	300 + 300 + 242	300 + 300 + 300	300 + 300 + 300	371 + 371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Maximum	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
Electrical	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
	Equivalent Length	m	235	235	235	185
Electrical	Real Length	m	190	190	190	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
Electrical	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
Electrical	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
Electrical	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	54.50/50.60	58.50/53.40	61.40/55.80	73.10/70.00
Electrical	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	32 + 32 + 25	32 + 32 + 32	40 + 32 + 32	40 + 40 + 32
OUTDOOR RETAIL PRICE			£27.517	£29.487	£29.892	£33.921

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSe Capacities below 26 hp	£135
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSe Capacities 26 hp & above	£168
RBM-BY55E	VRF 2-pipe Y Joint	SMMSe & MiNi SMMS Capacities below 6.4 hp	£61
RBM-BY105E	VRF 2-pipe Y Joint	SMMSe Capacities 6.4 below 14.2 hp	£74
RBM-BY205E	VRF 2-pipe Y Joint	SMMSe Capacities 14.2 below 25.2 hp	£122
RBM-BY305E	VRF 2-pipe Y Joint	SMMSe Capacities 25.2 hp & above	£163
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£134
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSe Capacities 14.2 to 25.2 hp	£136
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSe & MiNi SMMS Capacities below 14.2 hp	£156
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSe Capacities 14.2 to 25.2 hp	£151
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	£POA

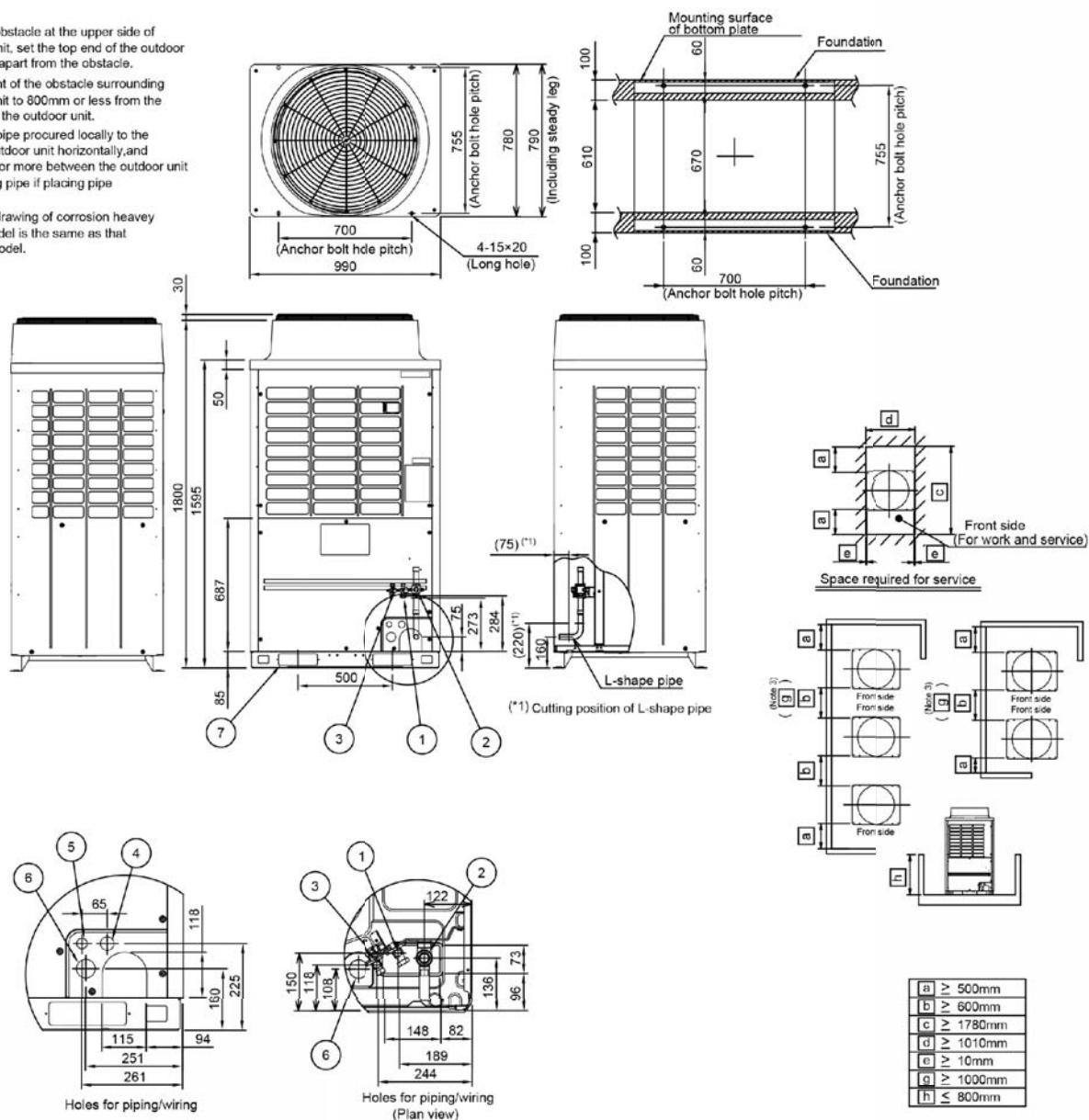
Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



Dimensions - MMY-MAP0806HT8P-E, MMY-MAP1006HT8P-E, MMY-MAP1206HT8P-E

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.



Model Name	φA	No.	Parts name	Remarks
MAP0806 type	φ19.1	①	Liquid pipe connection port	φ12.7
MAP1006 type	φ22.2	②	Gas pipe connection port	φA
MAP1206 type	φ26.6	③	Balance pipe connection port	φ9.5
		④	Knockout hole for power wiring 1	φ35
		⑤	Knockout hole for control wiring	φ27
		⑥	Knockout hole for power wiring 2	φ48
		⑦	Square hole (for freight handling)	2-60X200

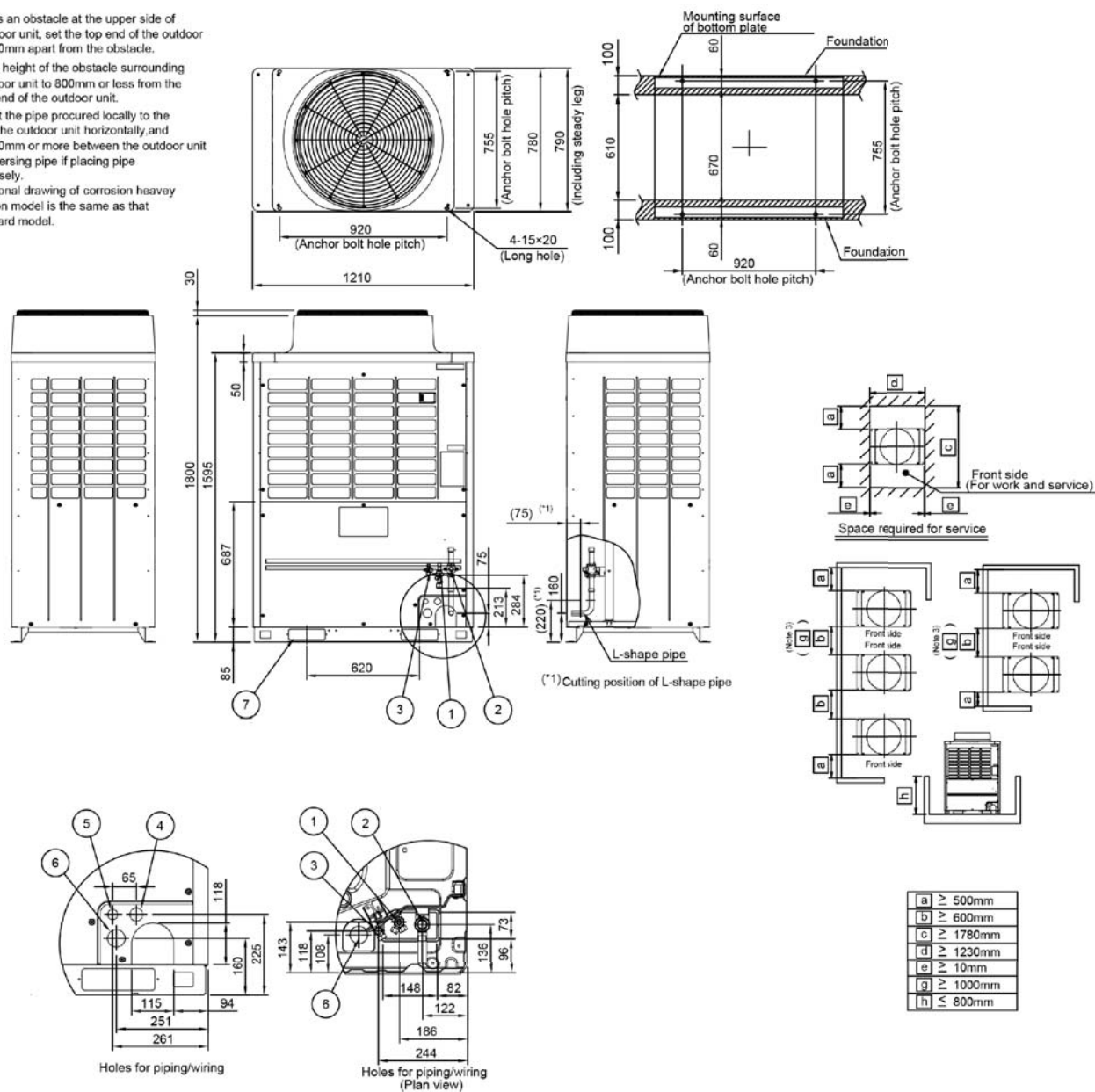
(Unit:mm)



Dimensions - MMY-MAP1406HT8P-E, MMY-MAP1606HT8P-E

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.



No	Parts name	Remarks
①	Liquid pipe connection port	Φ15.9
②	Gas pipe connection port	Φ28.6
③	Balance pipe connection port	Φ9.5
④	Knockout hole for power wiring 1	Φ35
⑤	Knockout hole for control wiring	Φ27
⑥	Knockout hole for power wiring 2	Φ48
⑦	Square hole (for freight handling)	2-60X200

(Unit:mm)

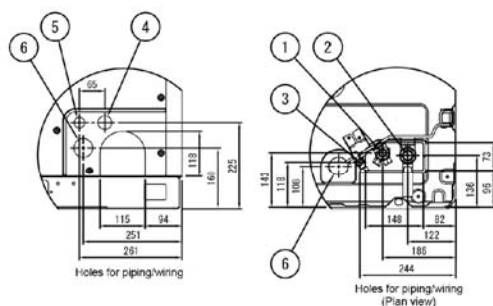
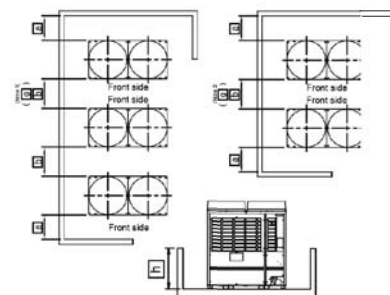
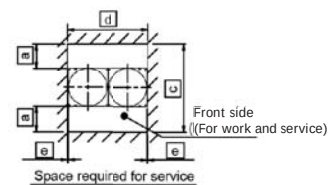
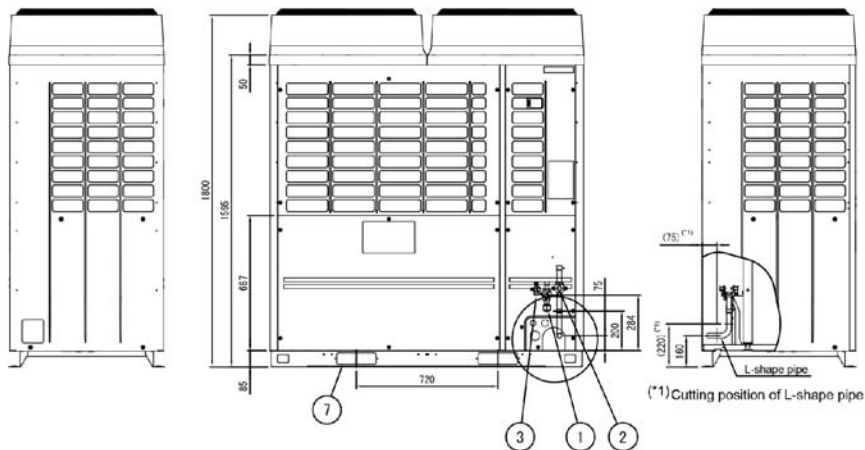
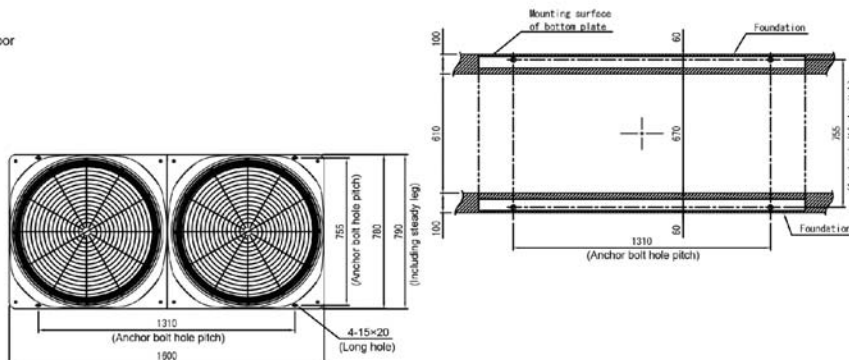
a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 1230mm
e	≥ 10mm
f	≥ 1000mm
h	≤ 800mm



Dimensions - MMY-MAP1806HT8P-E, MMY-MAP2006HT8P-E, MMY-MAP2206HT8P-E

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.



a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 1230mm
e	≥ 10mm
g	≥ 1000mm
h	≤ 800mm

Model Name	Φ A	No	Parts name	Remarks
MAP1806 type	Φ15.9	①	Liquid pipe connection port	ΦA
MAP2006 type	Φ15.9	②	Gas pipe connection port	Φ28.6
MAP2206 type	Φ19.1	③	Balance pipe connection port	Φ9.5
		④	Knockout hole for power wiring 1	Φ35
		⑤	Knockout hole for control wiring	Φ27
		⑥	Knockout hole for power wiring 2	Φ48
		⑦	Square hole (for freight handling)	2-60X200

(Unit:mm)

VRF Outdoor Units - SHRMe



The new Toshiba SHRMe puts the emphasis on evolution, driving excellence in energy savings, expansion in capacity line-up and enhancement in applications. Together, these offer professionals outstanding seasonal efficiency at lower operating cost, faster design, installation and commissioning, superior air comfort and enhanced quality and reliability.

High Efficiency And Low Operating Costs

Full of Toshiba innovations, the new SHRMe achieves an ESEER (European Seasonal Energy Efficiency Ratio) of 8 and above in most capacities. Toshiba's unique combination of twin-rotary compressors and all-inverter-driven control, can adjust the operating speed of the compressors in steps of just 0.1 Hz. This technology when combined with SHRMe all-new 3-row heat exchanger and Toshiba's "intelligent flow" technology ensures both maximum system performance and even capacity distribution throughout the entire system.

Exceptional Quality And Reliability

The SHRMe's innovative dual vane technology reduces variances between the vane and roller, while its unique Diamond-Like Carbon coating technology offers outstanding wear-resistance. Together, these further optimise performance, efficiency, durability and reliability. SHRMe's sophisticated oil management control ensures optimum oil levels inside each compressor and using Toshiba's dedicated oil balance line control, which can actively transfer oil from one condensing unit to another, ensures total reliability for the whole system.

Simultaneous Heating And Cooling Solution For Large Buildings

Superior air comfort

The SHRMe's Automatic Temperature Control system sets minimum and maximum temperatures and maintains air at the desired temperature. Toshiba's new Dual Set Point function instructs the system to stop operation and change mode once the maximum or minimum temperature has been reached. The system allows continuous heating, even during external defrost, while the new soft cooling mode offers personalised air flow for enhanced cool comfort. The SHRMe also features individual on/off temperature control via remote control, when multiple indoor units are connected to a single flow selector box.

Flexible design and quick installation

With its new multi-flow selector units, the SHRMe expands capacity line-up with fewer connections for faster and simpler installation. It also offers extended piping length and operating temperature range for a more flexible design. Improved external static pressure allows flexible unit positioning, whilst Toshiba's unique Wave Tool app enables remote monitoring of CDU operations, an industry first.



Creating Benefits Around Comfort



BENEFITS FOR THE USER

Infinite comfort

Achieved by fully-controllable room temperature, a perfect alternative to traditional heating and cooling systems.

Infinite efficiency

Low operating costs thanks to reduced installation costs and very high levels of efficiency via optimal load adjustment.

Infinite integration

Cooling, heating and fresh air ventilation, all perfectly and conveniently attuned to one another within a single system – and so easy to use!

Infinite reliability

Hassle-free operation based upon decades of experience and intensive testing programs for all systems.

Infinite transparency

Clearly-defined billing so you can quickly review energy costs and consumption.

BENEFITS FOR THE CONSULTANT

Absolute customisation

A wide range of products ensures that the customers' requirements are fully addressed.

Absolute validation

SHRMe is EUROVENT certified and adheres to all current European legislations.

Absolute control

Fully-integrated controls network, allowing unlimited access to the system controls and its operation.

Absolute flexibility

A high degree of system flexibility, aided by a fully-flexible piping specification and an extremely compact modular design.

Simplified design

Toshiba Design Airs software makes the selection of a system's components simple.

BENEFITS FOR THE INSTALLER

So simple

One supplier – one point of contact for a total solution: cooling, heating, hot water, ventilation and controls.

So versatile

Maximised installation flexibility.

So convenient

Easy access for all service and maintenance needs.

So professional

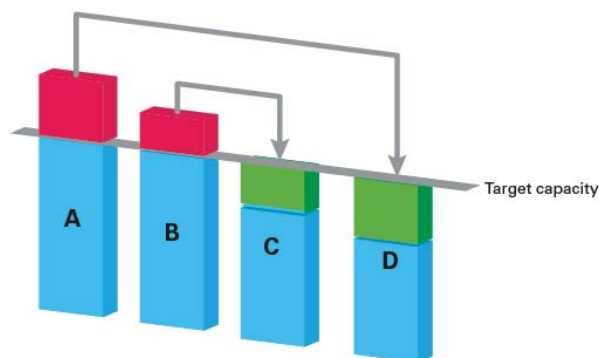
Intensive training and instruction offered by local Toshiba-trained experts.

So accessible

Simplified and swift commissioning assisted by the all new Wave Tool App.

Intelligent Flow Technology

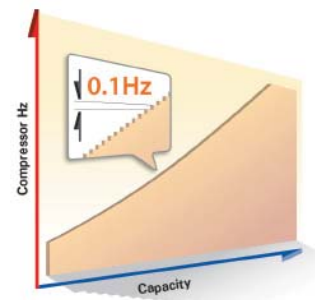
The unique Intelligent Flow Technology control continually adjusts the operation of both indoor and outdoor units, based on feedback from multiple sensors. While the refrigerant flow to each indoor unit is precisely controlled by the outdoor unit, ensuring even capacity distribution throughout the system, the evaporative and condensing temperature is automatically adjusted to maintain optimum indoor room temperature, regardless of the unit's load or its physical distance from the outdoor unit.



Excess capacity in units A & B can be re-distributed to units C & D, ensuring perfect operation throughout the entire system. Toshiba "IFT" technology ensures that any surplus capacity can be re-distributed in order to achieve optimum performance and efficiency throughout the entire system.

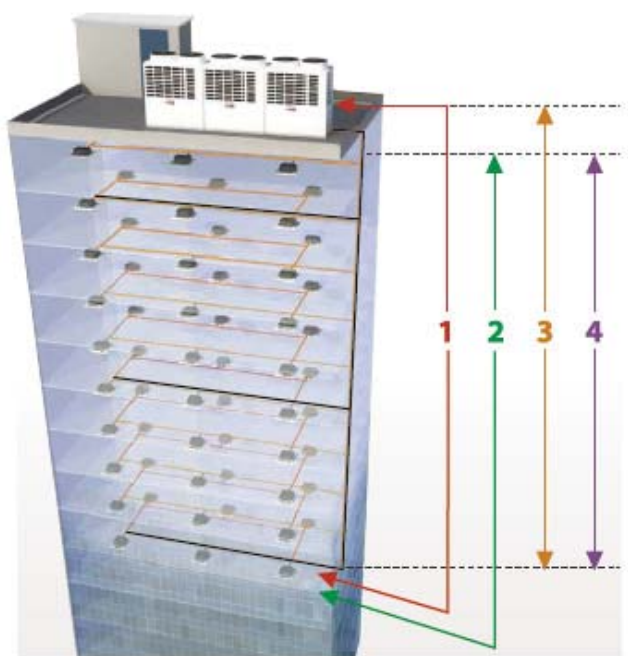
Infinite variable control

This feature has continually evolved and been further developed since its inception by Toshiba engineers back in 2004 with the original SMMS system. The control has the ability to adjust the compressor rotational speed in near seamless 0.1 Hz steps. This control when matched with Toshiba's newest and latest twin-rotary compressors, allows the system to respond precisely to the capacity needs of the end user, while minimising energy losses.



Piping design flexibility

Toshiba's piping technology makes them one of the industry's leaders in system flexibility and ease of installation and with the new SHRMe system, the level of flexibility has increased further, giving more options to the contractor and installer alike.



- 1 Total piping length**
 Applied with Toshiba's unique and greatly improved technology, SHRMe can reach up to 1,000 meters maximum piping length.
Total piping length
1,000 m*
- 2 Farthest equivalent length**
 The maximum equivalent distance between the outdoor unit and the farthest indoor unit tops at 235 meters, a best-in-class for the industry.
Farthest equivalent length
200 m
- 3 Height between outdoor unit and indoor unit**
 Another industry best-in-class feature is the maximum vertical distance between the outdoor and indoor units, which can extend up to 90 meters. SHRMe's enhanced piping capabilities results in more benefits for system design and installation flexibility, as well as lower installation costs.
90m*
- 4 Piping design flexibility "FS unit-FSU"**
Farthest pipe from FS unit-Indoor unit
50 m***
 As the SHRMe multi-flow selector and indoor unit can be as far as 50 meters apart, the refrigerant piping can be lengthened, offering more flexibility in design to make every space both more comfortable and attractive.

* Above 34HP combination

** It is 70 m for normal time, and has some specific conditions for 90 m, 50 m if piping length between Indoor units is more than 3 m

*** It is allowed only if you use the Multi port FS unit

The latest generation single-port flow selector unit increases the design flexibility of the system, offering longer distances of up to 50 m between flow selector box and indoor units, for example where noise level is of paramount importance, and connection of up to 8 indoor units onto one individual flow selector box.

The use of multi-flow selector units increases the design flexibility of the system, offering the same overall capacity and allows much faster and simpler installation, while layout design is more flexible, thanks to simplified branch and branch connections. Reducing the length of the branches also allows increased capacity. This configuration is available with either group or individual remote control.

SHRMe
New single-port FS unit



FS box to indoor unit up to 50 m

SHRMe
New multi-port FS unit



x 6 branch

x 4 branch

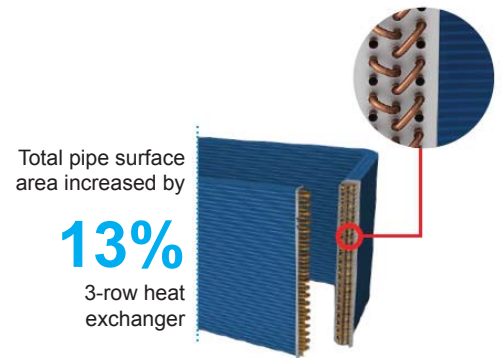
Previous model
Single FS unit



Max. 15 m

Advanced heat exchanger

Toshiba's new 3-row heat exchanger design, with reduced pipe size from 8 mm to 7 mm and increased total number of passes, improves both system performance and efficiency. While the 3-row heat exchanger design allows the condensing unit to automatically select the most suitable heat exchanger size, precisely matching the indoor capacity load, its 4-sided design ensures maximum possible flow rate across the entire coil, maximising system efficiency.



Smart automatic temperature control system

The SHRM's Automatic Temperature Control (ATC) system has been designed to enhance user comfort and reduce energy consumption. Each user can easily set minimum and maximum temperatures with the ATC, which automatically maintains the air at the desired temperature. Once the maximum temperature has been reached, the intelligent Dual Set Point function will tell the system to shut down and change mode to adjust the temperature to the minimum required, or vice versa. This enhances efficiency and reduces running costs, by extending the thermal off periods, when the unit stops between changes in heating and cooling mode.

Innovative individual ON/OFF and temperature control

The innovative multi-flow selector allows smart temperature control in each space via individual remote controls. This meets users' different temperature requirements for maximum comfort, and if rooms are empty, the unit can be switched off. This solution helps reduce energy waste, improve efficiency and save on overall costs.

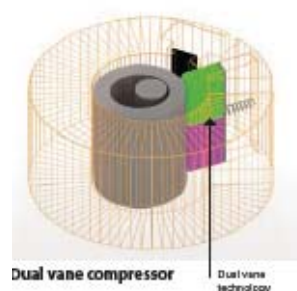
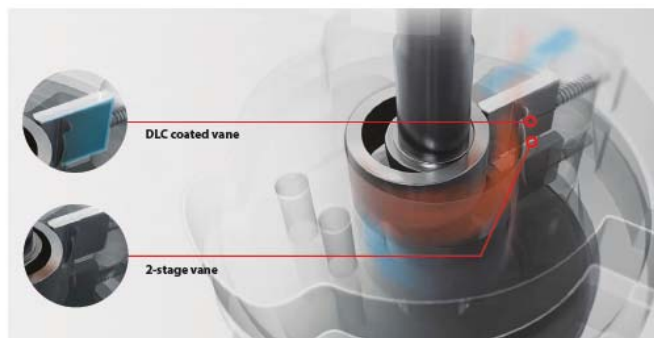


More durable with leading twin-rotary compressor technology

The advanced technology used within the SHRM-e units results in a robust and durable system. The innovations made with Toshiba twin-rotary compressor have resulted in an even stronger and more reliable system, extending the operational life and, thus, reducing the overall maintenance costs.

Wide-range compressor

Using new cutting-edge technology, Toshiba's new twin-rotary DC driven compressor can operate in a much wider range of rotational speed, giving increased performance, while maximising energy efficiencies.

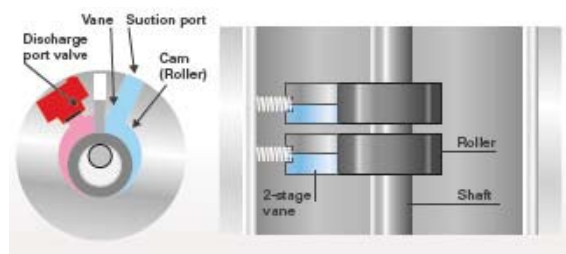


Dual vane technology for enhanced performance

The all-new dual vane technology reduces any variances in the contact area between the vane and roller, even when the compressor is operating at very high speeds. This results in minimal compression losses inside the compressor, further optimising its performance, efficiency and reliability.

The Diamond-Like Carbon coating

The new Toshiba Diamond-Like Carbon coating technology is unique to Toshiba VRF compressors. It covers the wear surfaces on compression vanes for outstanding hardness and wear-resistance, enhancing both the compressor's performance and durability and confirming Toshiba's reputation of providing exceptional reliability.



Optimised heating operations

The SHRM-e allows continuous heating, even during external defrost operations, thanks to the new hot gas bypass control. Indoor units will now operate continually, with only a minimal reduction in capacity output. This results in an uninterrupted flow of warm air, ensuring maximum comfort to the end user.



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit

CODE		224	280	335	400	450	
Combination		MMY-					
Model Name Heat Recovery		MMY-	MAP0806FT8P-UK	MAP1006FT8P-UK	MAP1206FT8P-UK	MAP1406FT8P-UK	MAP1606FT8P-UK
Capacity Range		hp	8	10	12	14	16
Maximum Number of Indoor Units		QTY	18	22	27	31	36
Cooling Capacity		kW	22.4	28.0	33.5	40.0	45.0
Heating Capacity		kW	25.0	31.5	37.5	45.0	50.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	5.95	7.96	9.75	12.70	13.90
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.76/6.19/244.6	3.51/6.13/242.2	3.43/6.02/237.8	3.14/5.67/223.8	3.23/5.78/228.2
Heating	Power Consumption	kW	5.40	7.05	8.70	10.50	12.20
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.14/3.64/142.6	3.97/3.54/138.6	3.85/3.71/145.4	3.80/3.57/139.8	3.68/3.51/137.4
Fan(s)	Standard Air Flow H	l/s	2694	2694	3389	3389	4806
	Standard Air Flow H	m³/h	9700	9700	12200	12200	17300
Sound	External Static Pressure	Pa	60	50	50	40	40
	Pressure Level C/H	dB(A)	59/61	59/61	60/62	62/64	61/62
	Power Level C/H	dB(A)	80/82	80/82	80/82	81/83	83/84
Unit(s)	Height x Width x Depth	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780	1830 x 1600 x 780
	Weight	kg	263	263	316	316	377
	Refrigerant Base Charge	kg	11	11	11	11	11
Pipe Connections	Suction Gas Pipe Brazing	inch	7/8	7/8	1-1/8	1-1/8	1-1/8
	Discharge Pipe Brazing	inch	3/4	3/4	3/4	7/8	7/8
	Liquid Pipe Flare	inch	1/2	1/2	1/2	5/8	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	9.44/8.57	12.49/11.06	15.46/13.8	19.92/16.47	21.81/19.14
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	20	25	25	32	40
OUTDOOR RETAIL PRICE			£6.615	£7.196	£9.908	£10.403	£11.755

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRMe Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRMe Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRMe Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRMe Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRMe Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRMe Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRMe Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRMe Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details

Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE		504	560	615	680	735	
Combination		MMY-			AP2216FT8P-UK	AP2416FT8P-UK	AP2616FT8P-UK
Model Name Heat Recovery		MMY-	MAP1806FT8P-UK	MAP2006FT8P-UK	MAP1206FT8P-UK MAP1006FT8P-UK	MAP1406FT8P-UK MAP1006FT8P-UK	MAP1406FT8P-UK MAP1206FT8P-UK
Capacity Range		hp	18	20	22	24	26
Maximum Number of Indoor Units		QTY	40	41	49	54	58
Cooling Capacity		kW	50.4	56.0	61.5	68.0	73.5
Heating Capacity		kW	56.5	58.0	69.0	76.5	82.5
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	16.00	18.60	17.71	20.66	22.45
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.15/5.94/234.6	3.01/5.68/224.2	3.47/6.07/239.8	3.29/5.88/232.2	3.27/5.84/230.6
Heating	Power Consumption	kW	13.70	15.90	15.75	17.55	19.20
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.67/3.59/140.6	3.52/3.60/141.0	3.90/3.64/142.6	3.87/3.56/139.4	3.83/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	4806	4972	3389 + 2694	3389 + 2694	3389 + 3389
	Standard Air Flow H	m³/h	17300	17900	12200 + 9700	12200 + 9700	12200 + 12200
Sound	External Static Pressure	Pa	40	40	50	40	40
	Pressure Level C/H	dB(A)	61/62	61/62	63/65	64/66	64.5/66.5
	Power Level C/H	dB(A)	83/84	83/84	83.5/85.5	84/86	84/86
Unit(s)	Height x Width x Depth	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 2220 x 780	1830 x 2220 x 780	1830 x 2440 x 780
	Weight	kg	377	377	316 + 263	316 + 263	316 + 316
	Refrigerant Base Charge	kg	11	11	11 + 11	11 + 11	11 + 11
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8
	Discharge Pipe Brazing	inch	7/8	7/8	1-1/8	1-1/8	1-1/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	25.1/21.49	29.18/24.68	27.94/24.85	32.41/27.53	35.41/30.29
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	40	50	25 + 25	32 + 25	32 + 25
OUTDOOR RETAIL PRICE		£12.575	£13.453	£17.104	£17.599	£20.311	

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRMe Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRMe Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRMe Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRMe Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRMe Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRMe Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRMe Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRMe Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE		800	850	904	954	1008		
Combination		MMY-	AP2816FT8P-UK	AP3016FT8P-UK	AP3216FT8P-UK	AP3416FT8P-UK	AP3616FT8P-UK	
Model Name Heat Recovery		MMY-	MAP1406FT8P-UK MAP1406FT8P-UK	MAP1606FT8P-UK MAP1406FT8P-UK	MAP1806FT8P-UK MAP1406FT8P-UK	MAP1806FT8P-UK MAP1606FT8P-UK	MAP1806FT8P-UK MAP1806FT8P-UK	
Capacity Range		hp	28	30	32	34	36	
Maximum Number of Indoor Units		QTY	63	64	64	64	64	
Cooling Capacity		kW	80.0	85.0	90.4	95.4	100.8	
Heating Capacity		kW	90.0	95.0	101.5	106.5	113.0	
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	
Cooling	Power Consumption	kW	25.40	26.60	27.80	29.90	32.00	
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.15/5.67/223.8	3.20/5.72/225.8	3.25/5.82/229.8	3.19/5.86/231.4	3.15/5.94/234.6	
Heating	Power Consumption	kW	21.00	22.70	24.40	25.90	27.40	
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.81/3.57/139.8	3.74/3.54/138.6	3.70/3.59/140.6	3.68/3.55/139.0	3.68/3.59/140.6	
Fan(s)	Standard Air Flow H	l/s	3389 + 3389	4806 + 3389	4806 + 3389	4806 + 4806	4806 + 4806	
	Standard Air Flow H	m³/h	12200 + 12200	17300 + 12200	17300 + 12200	17300 + 17300	17300 + 17300	
	External Static Pressure	Pa	40	40	40	40	40	
Sound	Pressure Level C/H	dB(A)	65.5/67.5	65/66.5	65/66.5	64.5/65.5	64.5/65.5	
	Power Level C/H	dB(A)	84.5/86.5	85.5/87	85.5/87	86.5/87.5	86.5/87.5	
Unit(s)	Height x Width x Depth	mm	1830 x 2440 x 780	1830 x 2830 x 780	1830 x 2830 x 780	1830 x 3220 x 780	1830 x 3220 x 780	
	Weight	kg	316 + 316	377 + 316	377 + 316	377 + 377	377 + 377	
	Refrigerant Base Charge	kg	11 + 11	11 + 11	11 + 11	11 + 11	11 + 11	
Pipe Connections	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8	
	Discharge Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8	
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8	
Maximum	Equivalent Length	m	200	200	200	200	200	
	Real Length	m	180	180	180	180	180	
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	1000	
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100	
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85	
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10	
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)	
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50	
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30	
	Equivalent Length Between Branches	m	50	50	50	50	50	
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70	
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30	
	Height Difference Between Indoor Units	m	40	40	40	40	40	
	Height Difference Between Outdoor Units	m	5	5	5	5	5	
	Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
		Electrical Characteristic Run Current Cooling/Heating	A	39.85/32.95	41.73/35.61	43.62/38.28	46.91/40.63	50.2/42.99
		Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
Suggested Fused Supply(s)		A	32 + 32	40 + 32	40 + 32	40 + 40	40 + 40	
OUTDOOR RETAIL PRICE		£20.806	£22.158	£22.978	£24.330	£25.150		

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRMe Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRMe Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRMe Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRMe Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRMe Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRMe Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRMe Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRMe Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE		1064	1120	1200
Combination		MMY-	AP3816FT8P-UK	AP4016FT8P-UK
Model Name Heat Recovery		MMY-	MAP2006FT8P-UK MAP1806FT8P-UK	MAP1406FT8P-UK MAP1406FT8P-UK MAP1406FT8P-UK
Capacity Range		hp	38	40
Maximum Number of Indoor Units		QTY	64	64
Cooling Capacity		kW	106.4	112.0
Heating Capacity		kW	114.5	116.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	34.60	37.20
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.08/5.81/229.4	3.01/5.68/224.2
Heating	Power Consumption	kW	29.60	31.80
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.59/3.60/141.0	3.52/3.60/141.0
Fan(s)	Standard Air Flow H	l/s	4972 + 4806	4972 + 4972
	Standard Air Flow H	m³/h	17900 + 17300	17900 + 17900
	External Static Pressure	Pa	40	40
Sound	Pressure Level C/H	dB(A)	64.5/65.5	64.5/65.5
	Power Level C/H	dB(A)	86.5/87.5	86.5/87.5
Unit(s)	Height x Width x Depth	mm	1830 x 3220 x 780	1830 x 3220 x 780
	Weight	kg	377 + 377	377 + 377
	Refrigerant Base Charge	kg	11 + 11	11 + 11
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8
	Discharge Pipe Brazing	inch	1-3/8	1-3/8
	Liquid Pipe Flare	inch	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8
Maximum	Maximum Equivalent Length	m	200	200
	Real Length	m	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30
	Equivalent Length Between Branches	m	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30
	Height Difference Between Indoor Units	m	40	40
	Height Difference Between Outdoor Units	m	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	54.28/46.19	58.36/49.35
	Power Supply Wiring Starting Current		Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	50 + 40	50 + 50
OUTDOOR RETAIL PRICE			£26,028	£26,906
				£31,209

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRMe Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRMe Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRMe Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRMe Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRMe Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRMe Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRMe Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRMe Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit

CODE		448	504	560	672	
Combination		MMY-	AP1626FT8P-UK	AP1826FT8P-UK	AP2026FT8P-UK	AP2426FT8P-UK
Model Name Heat Recovery		MMY-	MAP0806FT8P-UK MAP0806FT8P-UK	MAP0806FT8P-UK MAP1006FT8P-UK	MAP1006FT8P-UK MAP1006FT8P-UK	MAP0806FT8P-UK MAP0806FT8P-UK MAP0806FT8P-UK
Capacity Range		hp	16	18	20	24
Maximum Number of Indoor Units		QTY	36	40	41	54
Cooling Capacity		kW	44.8	50.4	56.0	67.2
Heating Capacity		kW	50.0	56.5	63.0	75.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	12.13	14.18	16.23	18.20
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.76/6.19/244.6	3.64/6.16/243.0	3.51/6.13/242.2	3.76/6.19/244.6
Heating	Power Consumption	kW	10.77	12.28	13.79	16.15
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.14/3.64/142.6	4.06/3.59/140.4	3.97/3.54/138.6	4.14/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	2694 + 2694	2694 + 2694	2694 + 2694	2694 + 2694 + 2694
	Standard Air Flow H	m³/h	9700 + 9700	9700 + 9700	9700 + 9700	9700 + 9700 + 9700
Sound	External Static Pressure	Pa	60	60	50	60
	Pressure Level C/H	dB(A)	62/64	62/64	62/64	62/64
	Power Level C/H	dB(A)	83/85	83/85	83/85	83/85
Unit(s)	Height x Width x Depth	mm	1830 x 2000 x 780	1830 x 2000 x 780	1830 x 2000 x 780	1830 x 3010 x 780
	Weight	kg	263 + 263	263 + 263	263 + 263	263 + 263 + 263
	Refrigerant Base Charge	kg	11.0 + 11.0	11.0 + 11.0	11.0 + 11.0	11.0 + 11.0 + 11.0
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8
	Discharge Pipe Brazing	inch	7/8	7/8	7/8	1-1/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200
	Real Length	m	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	15	15	15	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
	Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
Electrical Characteristic Run Current Cooling/ Heating		A	18.88/17.14	21.93/19.63	24.98/22.12	28.32/25.71
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	20 + 20	20 + 25	25 + 25	20 + 20 + 20
OUTDOOR RETAIL PRICE			£13,230	£13,811	£14,392	£19,845

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRMe - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit (continued)

CODE			728	784	840	1005	1180
Combination		MMY-	AP2626FT8P-UK	AP2826FT8P-UK	AP3026FT8P-UK	AP3626FT8P-UK	AP4226FT8P-UK
Model Name Heat Recovery		MMY-	MAP0806FT8P-UK MAP0806FT8P-UK MAP1006FT8P-UK	MAP0806FT8P-UK MAP1006FT8P-UK MAP1006FT8P-UK	MAP1006FT8P-UK MAP1006FT8P-UK MAP1006FT8P-UK	MAP1206FT8P-UK MAP1206FT8P-UK MAP1206FT8P-UK	MAP1606FT8P-UK MAP1606FT8P-UK MAP1006FT8P-UK
Capacity Range		hp	26	28	30	36	42
Maximum Number of Indoor Units		QTY	58	63	64	64	64
Cooling Capacity		kW	72.8	78.4	84.0	100.5	118.0
Heating Capacity		kW	81.5	88.0	94.5	112.5	131.5
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/-25.0 to 15.5	-10.0 to 46.0/-25.0 to 15.5	-10.0 to 46.0/-25.0 to 15.5
Cooling	Power Consumption	kW	20.25	22.30	23.9	29.3	35.8
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.68/6.17/243.4	3.68/6.15/242.8	3.51/6.13/242.2	3.43/6.02/237.8	3.32/5.90/232.4
Heating	Power Consumption	kW	17.66	19.17	21.2	26.1	31.5
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.08/3.61/141.0	4.08/3.57/139.6	3.97/3.54/138.6	3.85/3.71/145.4	3.78/3.52/137.6
Fan(s)	Standard Air Flow H	l/s	2694 + 2694 + 2694	2694 + 2694 + 2694	2694 + 2694 + 2694	3389 + 3389 + 3389	4806 + 4806 + 2694
	Standard Air Flow H	m³/h	9700 + 9700 + 9700	9700 + 9700 + 9700	9700 + 9700 + 9700	12200 + 12200 + 12200	17300 + 17300 + 9700
Sound	External Static Pressure	Pa	50	50	50	50	40
	Pressure Level C/H	dB(A)	62/64	62/64	62/64	63/65	63/64.5
	Power Level C/H	dB(A)	83/85	83/85	83/85	83/85	85/86
Unit(s)	Height x Width x Depth	mm	1830 x 3010 x 780	1830 x 3010 x 780	1830 x 3010 x 780	1830 x 3670 x 780	1830 x 4230 x 780
	Weight	kg	263 + 263 + 263	263 + 263 + 263	263 + 263 + 263	316 + 316 + 316	377 + 377 + 263
	Refrigerant Base Charge	kg	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0
Pipe Connections	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-5/8	1-5/8
	Discharge Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	1000	1000
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/ Heating	A	31.37/28.2	34.42/30.69	37.47/33.18	46.38/41.40	56.11/49.34
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	20 + 20 + 25	20 + 25 + 25	25 + 25 + 25	25 + 25 + 25	40 + 40 + 25
OUTDOOR RETAIL PRICE			£20,426	£21,007	£21,588	£29,724	£29,724

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRMe Capacities below 6.4 hp	£69
RBM-BY105FE	VRF 3-pipe Y Joint	SHRMe Capacities 6.4 - 14.2 hp	£95
RBM-BY205FE	VRF 3-pipe Y Joint	SHRMe Capacities 14.2 - 25.2 hp	£141
RBM-BY305FE	VRF 3-pipe Y Joint	SHRMe Capacities above 25.2 hp	£232
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRMe Capacities below 6.4 hp	£138
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRMe Capacities 6.4 - 14.2 hp	£138
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRMe Capacities 14.2 - 25.2 hp	£226
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRMe Capacities above 25.2 hp	£222
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities below 26 hp	£136
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRMe Capacities above 26 hp	£169

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRMe - VRF 3-Pipe Heat Recovery Flow Selector

Flow Selector Unit		Standard Box			Premium Box		
	RBM-	Y1123FE	Y1803FE	Y2803FE	Y1124FE	Y1804FE	Y2804FE
Height x Width x Depth	mm	190 x 490 x 160	190 x 490 x 160	200 x 640 x 200	180 x 425 x 300	180 x 425 x 300	180 x 495 x 350
Weight	kg	5	5	8	11	11	16
Standard 5 Core Control Cable Max. Length	m	6	6	6	-	-	-
Standard 3 Core Power Cable Max. Length	m	6	6	6	-	-	-
Optional Accessory Combined Control/Power Cable Max. Length	m	15	15	15	-	-	-
Power Supply From Local or Group Indoor Unit	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
FLOW SELECTOR UNIT PRICE		£545	£604	£947	£888	£986	£1,543

Single Unit Connection For Flow Selector

MM*-AP***		007 to 012	015 to 018	024 to 030	036 to 056	072 to 096	005 to 012	015 to 018	024 to 030	036 to 056	072 to 096
Indoor Unit Side Gas Pipe	inch	3/8	1/2	5/8	5/8	7/8	3/8	1/2	5/8	5/8	7/8
Indoor Unit Side Liquid Pipe	inch	1/4	1/4	3/8	3/8	1/2	1/4	1/4	3/8	3/8	1/2
Outdoor Unit Side Suction Gas Pipe	inch	5/8	5/8	5/8	5/8	7/8	5/8	5/8	5/8	5/8	7/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	1/2	1/2	1/2	3/4	1/2	1/2	1/2	1/2	3/4
Outdoor Unit Side Liquid Pipe	inch	3/8	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8	1/2
Max. Pipe Length To Indoor Unit	m	15	15	15	15	15	50	50	50	50	50

Multi Unit Connection For Flow Selector

Indoor unit capacity code		Less than 4 hp	4 hp or more Less than 6.4 hp	6.4 hp or more Less than 10 hp	Less than 4 hp	4 hp or more Less than 6.4 hp	6.4 hp or more Less than 10 hp
Indoor Unit Side Gas Pipe	inch	5/8	5/8	7/8	5/8	5/8	7/8
Indoor Unit Side Liquid Pipe	inch	3/8	3/8	1/2	3/8	3/8	1/2
Outdoor Unit Side Suction Gas Pipe	inch	5/8	5/8	7/8	5/8	5/8	7/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	1/2	3/4	1/2	1/2	3/4
Outdoor Unit Side Liquid Pipe	inch	3/8	3/8	1/2	3/8	3/8	1/2
Max. Connectable Indoor Units		5	8	8	6	10	16
Max. Total Pipe Length	m	30	30	30	50	50	50
Max. Height Difference Between Indoor Units	m	±0.5	±0.5	±0.5	±3.0	±3.0	±3.0

Multi Flow Selector Unit	RBM-	Y1801F4PE	Y1801F6PE
Height x Width x Depth	mm	215 x 1157 x 687	215 x 1477 x 687
Weight	kg	38	53
Number of Ports		4	6
Max. Connectable Indoor Units per Port		10	10
Max. Connectable Indoor Units		40	60
Max. Remote Controller per Port Individual Indoor Unit Control		10	10
Max. Remote Controller per Port Group Indoor Unit Control		2	2
Max. Pipe Length from Single Port	m	50	50
Max. Total Pipe Length from All Ports	m	120	180
Max. Height Difference Between Indoor Units	m	±3.0	±3.0
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50
Suggested Fused Supply	A	5	5

FLOW SELECTOR UNIT PRICE	£2,427	£3,639
--------------------------	--------	--------

Multi Unit Indoor Side Connection For Flow Selector

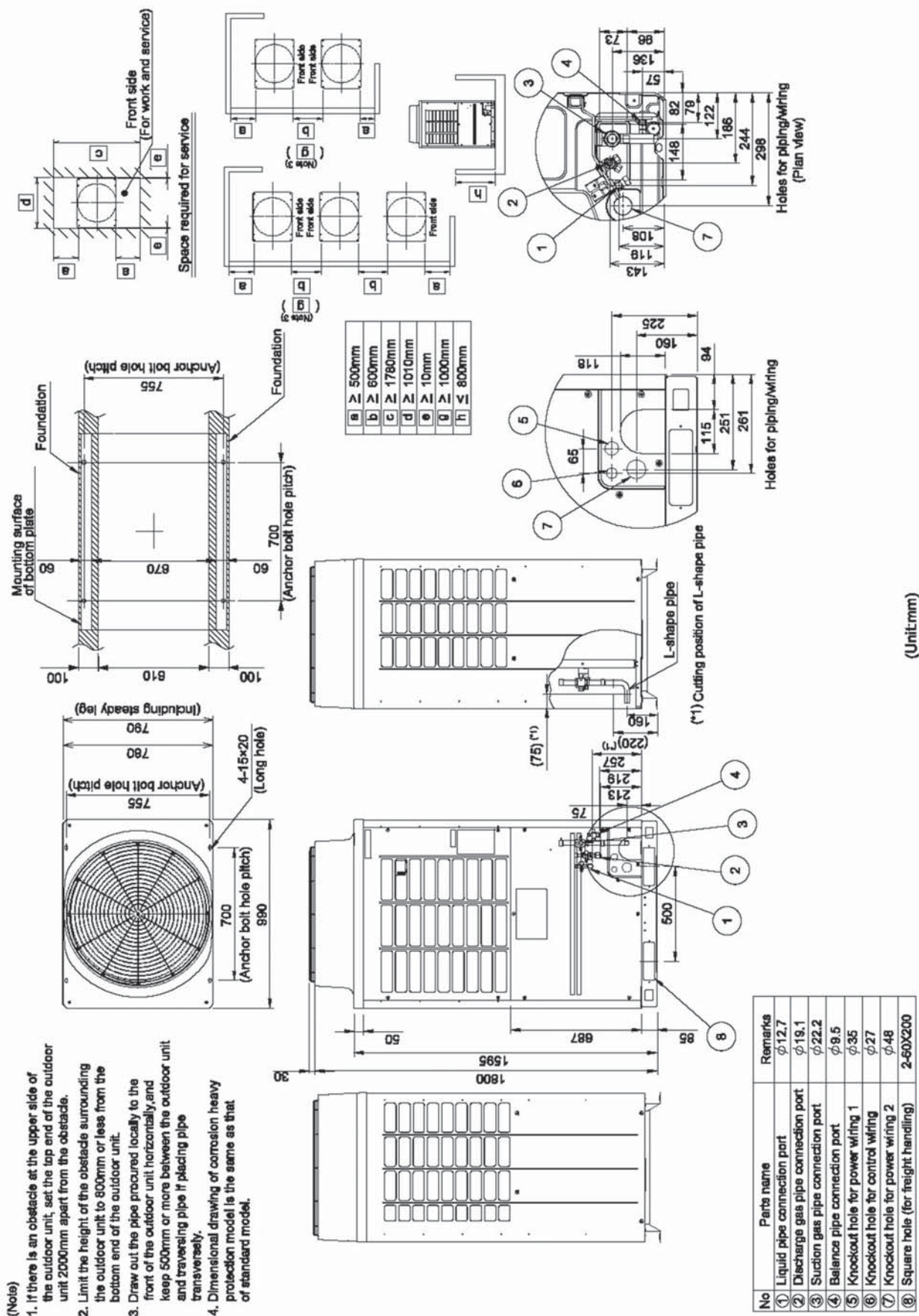
MM*-AP***		005 to 012	015 to 018	024 to 056
Indoor Unit Side Gas Pipe Real Length ≤ 15 m	inch	3/8	1/2	5/8
Indoor Unit Side Liquid Pipe Real Length ≤ 15 m	inch	1/4	1/4	3/8
Indoor Unit Side Gas Pipe Real Length > 15 m	inch	1/2	5/8	5/8
Indoor Unit Side Liquid Pipe Real Length > 15 m	inch	3/8	3/8	3/8
Max. Pipe Length to Indoor Unit	m	50	50	50

Multi Unit Outdoor Side Connection For Flow Selector

Indoor Unit Capacity Code		Less than 6.4 hp	6.4 hp or more Less than 12.2 hp	12.2 hp or more Less than 16.2 hp	16.2 hp or more Less than 20.2 hp	20.2 hp or more Less than 25.2 hp	25.2 hp or more Less than 35.2 hp	More than 35.2 hp
Outdoor Unit Side Suction Gas Pipe	inch	5/8	7/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	3/4	7/8	7/8	1-1/8	1-1/8	1-3/8
Outdoor Unit Side Liquid Pipe	inch	3/8	1/2	5/8	3/4	3/4	7/8	7/8
Max. Connectable Indoor Units		10	20	27	33	42	58	60



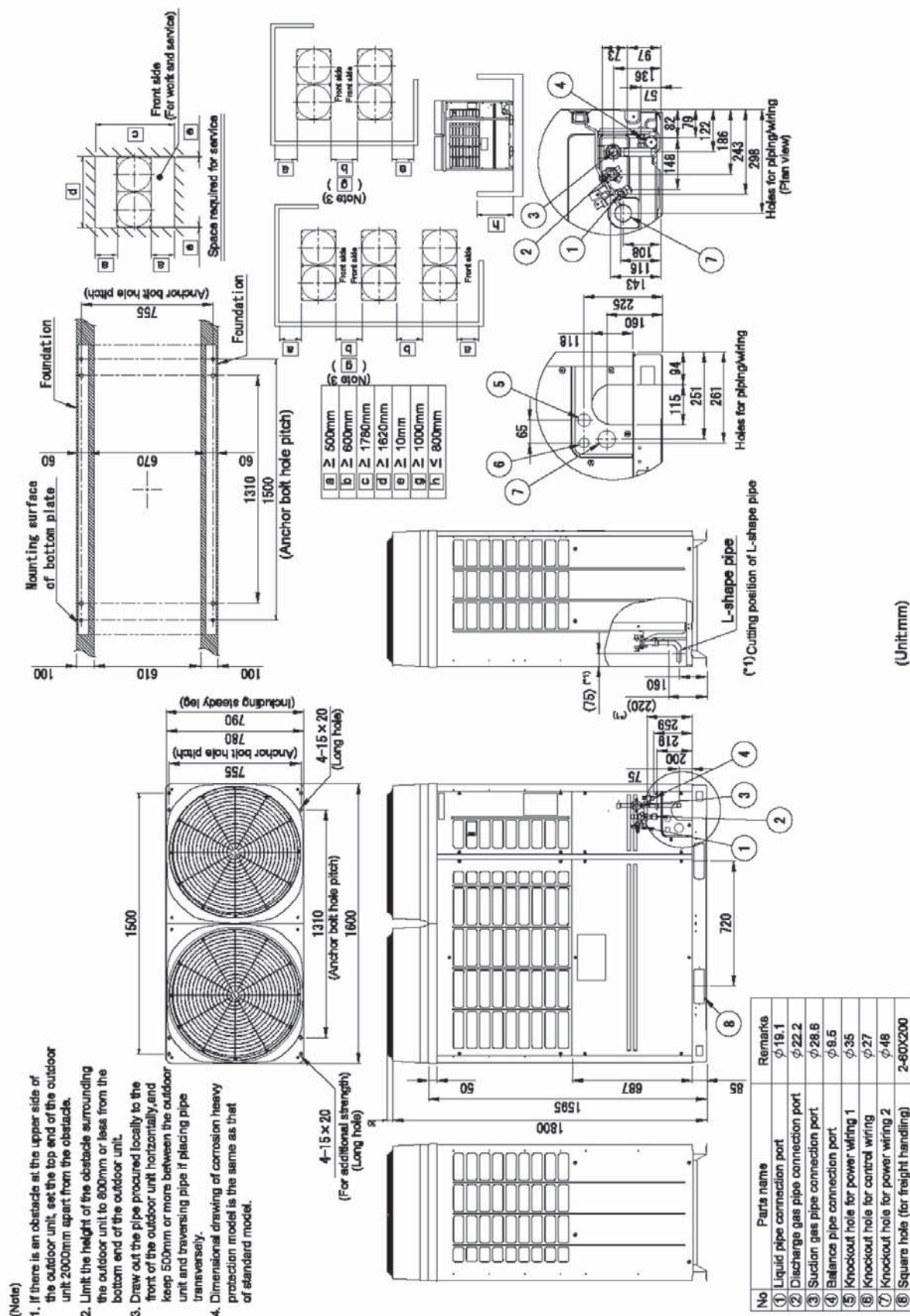
Dimensions - MMY-MAP0806FT8P-UK, MMY-MAP1006FT8P-UK







Dimensions - MMY-MAP1608FT8P-UK, MMY-MAP1806FT8P-UK, MMY-MAP2006FT8P-UK





R22 and R407C replacement technology for MiNi SMMSe, SMMSe and SHRMe

Continuing our commitment to more environmentally-friendly refrigerants our latest generation MiNi SMMSe, SMMSe and SHRMe VRF systems can be used to replace existing R22 and R407C air conditioning plant.

R22 (HCFC) was commonly used in air conditioning production up to 2004, but on 1st January 2015 R22 equipment became non-serviceable, resulting in systems having to be replaced with more environmentally-friendly refrigerants that have a lower or zero Ozone Depleting Potential (ODP).

- Available for heat pump and heat recovery systems
- Re-use existing refrigerant pipework
- Cost-effective upgrade

- Reduced installation time and expense
- ECA compliant dependent on design
- Minimal disruption
- Ideal for refurbishment projects where the main risers are no longer accessible
- Lower energy consumption with up to 60% increase in energy efficiency
- Chance to increase or decrease system capacity
- Smaller footprint compared to previous R22 models
- Can re-use existing power supply
- End-of-life recycling program for replaced plant

Pipe	Suction Gas			Liquid Side		Max. Piping Length to 1st Branch Joint (m)
	5/8	3/4	7/8	3/8	1/2	
MiNi SMMSe						
4 hp	✓	✓		✓	✓	65
5 hp	✓	✓		✓	✓	65
6 hp		✓	✓	✓	✓	65

Pipe	Suction Gas				Liquid Side				Discharge Gas				Max. Piping Length to 1st Branch Joint (m)	
	7/8	1-1/8	1-3/8	1-5/8	1/2	5/8	3/4	7/8	3/4	7/8	1-1/8	1-3/8	Height <3 m	Height >3 <70 m
SHRMe														
8 hp	✓				✓				✓				100	85
10 hp	✓				✓				✓				100	85
12 hp		✓			✓				✓				100	85
14 hp		✓				✓				✓			100	85
16 hp		✓					✓			✓			100	85
18 hp		✓					✓			✓			100	85
20 hp		✓					✓			✓			100	85
22 hp			✓				✓				✓		100	85
24 hp			✓				✓				✓		100	85
26 hp			✓					✓			✓		100	85
28 hp			✓					✓			✓		100	85
30 hp			✓					✓			✓		100	85
32 hp			✓					✓			✓		100	85
34 hp			✓					✓			✓		100	85
36 hp				✓				✓				✓	100	85
38 hp				✓				✓				✓	100	85
40 hp				✓				✓				✓	100	85
42 hp				✓				✓				✓	100	85

Pipe	Suction Gas						Liquid Side					Max. Piping Length to 1st Branch Joint (m)	
	3/4	7/8	1-1/8	1-3/8	1-5/8	1-7/8	1/2	5/8	3/4	7/8	1-1/8	Height <3 m	Height >3 <70 m
SMMSe													
8 hp	✓	✓					✓	✓				100	65
10 hp		✓	✓				✓	✓				100	65
12 hp			✓	✓			✓	✓				100	65
14 hp			✓	✓				✓	✓			100	65
16 hp			✓	✓				✓	✓			100	65
18 hp			✓	✓				✓	✓			100	65
20 hp			✓	✓				✓	✓			100	65
22 hp			✓	✓					✓	✓		100	65
24 hp				✓	✓				✓	✓		100	65
26 hp				✓	✓				✓	✓		100	65
28 hp				✓	✓				✓	✓		100	65
30 hp				✓	✓				✓	✓		100	65
32 hp				✓	✓				✓	✓		100	65
34 hp				✓	✓				✓	✓		100	65
36 hp					✓	✓				✓	✓	100	65
38 hp					✓	✓				✓	✓	100	65
40 hp					✓	✓				✓	✓	100	65
42 hp					✓	✓				✓	✓	100	65
44 hp					✓	✓				✓	✓	100	65
46 hp					✓	✓				✓	✓	100	65
48 hp					✓	✓				✓	✓	100	65
50 hp					✓	✓				✓	✓	100	65
52 hp					✓	✓				✓	✓	100	65
54 hp					✓	✓				✓	✓	70	50
56 hp					✓	✓				✓	✓	70	50
58 hp					✓	✓				✓	✓	70	50
60 hp					✓	✓				✓	✓	70	50

Maximum system diversity factor connectable indoor units to outdoor is 105%.

The data tables detail the main pipe sizes to the first joint. The pipes can be vertical or horizontal providing they match the data. After the first joint for main pipes all other pipework must follow the same principles/criteria as for new installations as detailed in the installation and data books.

VRF Indoor Units

Toshiba VRF systems have a wide range of indoor units which enable designers and tenants to make the right product choice in terms of aesthetics and performance. 14 different type of units ranging from 0.8 to 10 hp are connectable to the VRF outdoor units. With the SMMSe and SHRMe range it is possible to install up to 64 different units individually-controlled or managed centrally with a wide range of Toshiba control solutions.

High-wall and ceiling

A preferred solution for buildings where a false ceiling cannot be used. It is the perfect choice for those applications that need air conditioning in conjunction with the existing conventional radiator heating.



High-wall units in the VRF range adopt the similar high-end design of the units used in residential applications. These type of products are quiet, with personalised air flow control and indoor air quality filters.

Cassettes

The cassette unit is the preferred solution for offices and buildings with false ceiling installations. The Toshiba range of cassette units is suitable for standard ceiling panels. The choice can be made between products with different air flow configurations: 1, 2, 4 air outlets. The 4-way cassettes feature a selectable automatic air flow pattern in speed and direction. The designer can also select other cassette types: compact 600 x 600 4-way, 1-way and the new slimmer 2-way cassette.



Standard ducted

Large building applications make extensive use of ducts to deliver air to the different parts of the building. Toshiba designers have been able to create unit types with latest technology features in order to serve different purposes.



Slim ducted

For applications where the space is limited in height and length (hotels).



High-static ducted

For applications that require elevated external static pressure (open space).



Concealed-chassis

Where the console is hidden behind a panel in order to be unobtrusive and blend perfectly in the interior.



Chassis cabinet

Positioned usually in place of radiators around the perimeter of the building or at the base of the building columns in the room.



Floor-mounted console and bi-flow console

Typical installations where the indoor unit is placed on the floor against one wall or under a window sill.

Floor-mounted cabinet

These are slim tall units that can be placed in different positions. These units feature the additional horizontal swing pattern (from left to right) which make them the preferred solution for corner installations (restaurants).



Fresh air intake

To manage the distribution of fresh air throughout the ductwork of a building (SMMSe only maximum 30% capacity).

Heat exchangers (DX type)

To treat the incoming fresh air and use the benefit of free cooling process.

VRF



VRF Indoor Unit Overview

Nominal Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
Nominal Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
	hp	0.6	0.8	1	1.25	1.7	2

Cassette Indoor Units		4-Way Compact Cassette Full Spec Page 176	Price	£955	£956	£1,011	£1,045	£1,089	£1,146
			Model Ref	MMU-AP0057MH-E	MMU-AP0077MH-E	MMU-AP0097MH-E	MMU-AP0127MH-E	MMU-AP0157MH-E	MMU-AP0187MH-E
		4-Way Cassette Full Spec Page 177	Price			£1,074	£1,099	£1,147	£1,172
			Model Ref			MMU-AP0094HP1-E	MMU-AP0124HP1-E	MMU-AP0154HP1-E	MMU-AP0184HP1-E
		2-Way Cassette Full Spec Page 178	Price		£1,191	£1,223	£1,252	£1,293	£1,470
			Model Ref		MMU-AP0072WH1	MMU-AP0092WH1	MMU-AP0122WH1	MMU-AP0152WH1	MMU-AP0182WH1
		1-Way Cassette Full Spec Page 179	Price		£1,401	£1,438	£1,473	£1,422	£1,583
			Model Ref		MMU-AP0074YH1-E	MMU-AP0094YH1-E	MMU-AP0124YH1-E	MMU-AP0154SH1-E	MMU-AP0184SH1-E
Ducted Type		Slim Ducted Full Spec Page 180	Price	£732	£732	£742	£763	£795	£835
			Model Ref	MMD-AP0056SPH1-E	MMD-AP0074SPH1-E	MMD-AP0094SPH1-E	MMD-AP0124SPH1-E	MMD-AP0154SPH1-E	MMD-AP0184SPH1-E
		Standard Ducted Full Spec Page 181	Price		£828	£804	£849	£874	£933
			Model Ref		MMD-AP0076BHP1-E	MMD-AP0096BHP1-E	MMD-AP0126BHP1-E	MMD-AP0156BHP1-E	MMD-AP0186BHP1-E
		High-Static Ducted Full Spec Page 182	Price						£1,096
			Model Ref						MMD-AP0186HP1-E
Ceiling Type		Ceiling-Suspended Full Spec Page 184	Price					£1,174	£1,298
			Model Ref					MMC-AP0158HP-E	MMC-AP0188HP-E
Wall-Mounted		High-Wall 3 Series High-Wall 4 Series Full Spec Page 174	Price	£666	£814 £676	£827 £685	£839 £698	£876	£892
			Model Ref	MMK-AP0054MHP1-E	MMK-AP0073H1 MMK-AP0074MH1-E	MMK-AP0093H1 MMK-AP0094MH1-E	MMK-AP0123H1 MMK-AP0124MH1-E	MMK-AP0153H1	MMK-AP0183H1
		High-Wall 7 Series Full Spec Page 175	Price	£786	£797	£808	£824	£874	£891
			Model Ref	AP0057HP-E	AP0077HP-E	AP0097HP-E	AP0127HP-E	AP0157HP-E	AP0187HP-E
Floor-Standing Type		Concealed-Chassis Full Spec Page 185	Price		£828	£849	£875	£913	£972
			Model Ref		MML-AP0074BH1-E	MML-AP0094BH1-E	MML-AP0124BH1-E	MML-AP0154BH1-E	MML-AP0184BH1-E
		Floor-Mounted Console Full Spec Page 185	Price		£993	£1,016	£1,041	£1,134	£1,162
			Model Ref		MML-AP0074H1-E	MML-AP0094H1-E	MML-AP0124H1-E	MML-AP0154H1-E	MML-AP0184H1-E
		Bi-Flow Console Full Spec Page 186	Price		£1,058	£1,140	£1,222	£1,304	£1,352
			Model Ref		MML-AP0074NH1-E	MML-AP0094NH1-E	MML-AP0124NH1-E	MML-AP0154NH1-E	MML-AP0184NH1-E
		Floor-Mounted Cabinet Full Spec Page 187	Price					£1,401	£1,485
			Model Ref					MMF-AP0156H1-E	MMF-AP0186H1-E
Air Movement		Fresh Air Intake Unit Full Spec Page 188	Price						
			Model Ref						
		Air-to-Air with DX Coil Type Full Spec Page 215	Price				£3,535		£5,152
			Model Ref				MMD-VN502HEX1E		MMD-VN802HEX1E
		Air-to-Air with DX Coil and Humidifier Type Full Spec Page 216	Price				£3,696		£5,379
			Model Ref				MMD-VNK502HEX1E		MMD-VNK802HEX1E
Heating		Hot Water Module (SMMSe/SHRMe) Full Spec Page 189	Price						
			Model Ref						

VRF



VRF Indoor Unit Overview (continued)

7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
2.5	3	3.2	4	5	6	8	10
£1,214	£1,402	£1,512	£1,586	£1,648	£1,830		
MMU-AP0244HP1-E	MMU-AP0274HP1-E	MMU-AP0304HP1-E	MMU-AP0364HP1-E	MMU-AP0484HP1-E	MMU-AP0564HP1-E		
£1,542	£1,727	£1,741	£2,072	£2,238	£2,421		
MMU-AP0242WH1	MMU-AP0272WH1	MMU-AP0302WH1	MMU-AP0362WH1	MMU-AP0482WH1	MMU-AP0562WH1		
£1,665							
MMU-AP0244SH1-E							
£901	£973						
MMD-AP0244SPH1-E	MMD-AP0274SPH1-E						
£975	£1,081	£1,154	£1,323	£1,415	£1,502		
MMD-AP0246BHP1-E	MMD-AP0276BHP1-E	MMD-AP0306BHP1-E	MMD-AP0366BHP1-E	MMD-AP0486BHP1-E	MMD-AP0566BHP1-E		
£1,208	£1,260		£1,322	£1,462	£1,565	£2,640	£2,790
MMD-AP0246HP1-E	MMD-AP0276HP1-E		MMD-AP0366HP1-E	MMD-AP0486HP1-E	MMD-AP0566HP1-E	MMD-AP0726HP-E	MMD-AP0966HP-E
£1,375	£1,387		£1,409	£1,433	£1,534		
MMC-AP0248HP-E	MMC-AP0278HP-E		MMC-AP0368HP-E	MMC-AP0488HP-E	MMC-AP0568HP-E		
£906							
MMK-AP0243H1							
£982							
AP0247HP-E							
£1,011							
MML-AP0244BH1-E							
£1,212							
MML-AP0244H1-E							
£1,549	£1,595		£1,643	£1,726	£1,811		
MMF-AP0246H1-E	MMF-AP0276H1-E		MMF-AP0366H1-E	MMF-AP0486H1-E	MMF-AP0566H1-E		
				£2,053		£3,399	£3,590
				MMD-AP0481HFE		MMD-AP0721HFE	MMD-AP0961HFE
	£5,884						
	MMD-VN1002HEX1E						
	£6,149						
	MMD-VNK1002HEX1E						
£2,500				£2,563			
MMW-AP0271LQ-E				MMW-AP0561LQ-E			



VRF High-Wall Indoor Unit

CODE			22	28	36	45	56
Performance							
Indoor Unit		MMK-	AP0073H1	AP0093H1	AP0123H1	AP0153H1	AP0183H1
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	2.0/1.6	2.5/1.9	3.3/2.4	4.1/2.7	5.1/3.4
	Heating	kW	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input	kW	0.018	0.021	0.021	0.043	0.043
	Run Current	A	0.17	0.19	0.19	0.32	0.32
	Start Current	A	0.22	0.24	0.24	0.41	0.41
Indoor Data		MMK-	AP0073H1	AP0093H1	AP0123H1	AP0153H1	AP0183H1
Air Flow	High - Medium - Low	l/s	158 - 125 - 108	167 - 133 - 117	167 - 133 - 117	233 - 183 - 150	233 - 183 - 150
	High - Medium - Low	m³/h	570 - 450 - 390	600 - 480 - 390	600 - 480 - 390	840 - 660 - 540	840 - 660 - 540
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	37 - 32 - 28	37 - 32 - 28	41 - 36 - 33	41 - 36 - 33
	Power High - Medium - Low	dB(A)	50 - 46 - 43	52 - 47 - 43	52 - 47 - 43	56 - 51 - 48	56 - 51 - 48
Unit	Height x Width x Depth	mm	320 x 1050 x 228	320 x 1050 x 228	320 x 1050 x 228	320 x 1050 x 228	320 x 1050 x 228
	Weight	kg	15	15	15	15	15
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)
INDOOR RETAIL PRICE			£814	£827	£839	£876	£892

CODE			71	17	22	28	36
Performance							
Indoor Unit		MMK-	AP0243H1	AP0054MHP1-E	AP0074MH1-E	AP0094MH1-E	AP0124MH1-E
Capacity Code		hp	2.5	0.6	0.8	1.0	1.25
Nominal	Cooling Capacity	kW	7.1	1.7	2.2	2.8	3.6
	Heating Capacity	kW	8.0	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	6.4/4.4	1.5/1.2	2.0/1.6	2.5/1.9	3.3/2.4
	Heating	kW	5.4	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.050	0.017	0.017	0.018	0.019
	Run Current	A	0.37	0.17	0.17	0.18	0.19
	Start Current	A	0.47	0.22	0.22	0.23	0.24
Indoor Data							
Air Flow	High - Medium - Low	l/s	283 - 217 - 167	124 - 111 - 100	133 - 117 - 100	150 - 133 - 100	150 - 133 - 100
	High - Medium - Low	m³/h	1020 - 750 - 570	445 - 400 - 360	480 - 420 - 360	510 - 450 - 360	510 - 450 - 360
Sound	Pressure High - Medium - Low	dB(A)	46 - 39 - 34	33 - 31 - 29	35 - 32 - 29	36 - 33 - 29	37 - 33 - 29
	Power High - Medium - Low	dB(A)	61 - 54 - 49	48 - 46 - 44	50 - 47 - 44	51 - 48 - 44	52 - 48 - 44
Unit	Height x Width x Depth	mm	320 x 1050 x 228	275 x 790 x 208	275 x 790 x 208	275 x 790 x 208	275 x 790 x 208
	Weight	kg	15	11	11	11	11
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-L11SE (Infra-Red)	WH-H2UE (Infra-Red)	WH-H2UE (Infra-Red)	WH-H2UE (Infra-Red)	WH-H2UE (Infra-Red)
INDOOR RETAIL PRICE			£906	£666	£676	£685	£698

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Wall installation



Anti-dust pre-filter



Drain connection both sides



Automatic restart



Louvre control



Multi-split branching



VRF High-Wall Indoor Unit - 7 Series

CODE			17	22	28	36
Performance						
Indoor Unit		MMK-	AP0057HP-E	AP0077HP-E	AP0097HP-E	AP0127HP-E
Capacity Code		hp	0.6	0.8	1.0	1.3
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	1.5/1.4	2.0/1.6	2.5/1.9	3.3/2.4
	Heating	kW	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.013	0.015	0.016	0.017
	Run Current	A	0.14	0.15	0.16	0.17
	Start Current	A	0.19	0.20	0.21	0.22
Indoor Data						
Air Flow	High - Medium - Low	l/s	124 - 103 - 75	133 - 107 - 75	150 - 110 - 75	150 - 114 - 75
	High - Medium - Low	m³/h	445 - 370 - 270	480 - 385 - 270	510 - 395 - 270	510 - 410 - 270
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	35 - 30 - 25	36 - 31 - 25	37 - 32 - 25
	Power High - Medium - Low	dB(A)	48 - 44 - 40	50 - 45 - 40	51 - 46 - 40	52 - 47 - 40
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	11	11	11	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£786	£797	£808	£824

CODE			50	63	80
Performance					
Indoor Unit		MMK-	AP0157HP-E	AP0187HP-E	AP0247HP-E
Capacity Code		hp	4.5	5.6	7.1
Nominal	Cooling Capacity	kW	5.0	6.3	8.0
	Heating Capacity	kW	4.5	5.6	7.1
UK	Cooling Total/Sensible	kW	4.1/2.7	5.1/3.4	6.4/4.4
	Heating	kW	5.0	6.3	8.0
Electrical	Power Input	kW	0.028	0.032	0.050
	Run Current	A	0.25	0.28	0.40
	Start Current	A	0.35	0.38	0.50
Indoor Data					
Air Flow	High - Medium - Low	l/s	233 - 153	250 - 153	333 - 167
	High - Medium - Low	m³/h	840 - 550	900 - 550	1200 - 600
Sound	Pressure High - Medium - Low	dB(A)	40 - 32	41 - 32	45 - 33
	Power High - Medium - Low	dB(A)	55 - 47	56 - 47	60 - 48
Unit	Height x Width x Depth	mm	293 x1050 x 250	293 x1050 x 250	293 x1050 x 250
	Weight	kg	16	16	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£874	£891	£982

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10



VRF 4-Way Compact Cassette Indoor Unit

CODE			17	22	28	36	45	56
Performance								
Indoor Unit		MMU-	AP0057MH-E	AP0077MH-E	AP0097MH-E	AP0127MH-E	AP0157MH-E	AP0187MH-E
Capacity Code		hp	0.6	0.8	1.0	1.25	1.7	2.0
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.1	3.3/2.5	4.1/3.1	5.1/3.9
	Heating	kW	1.3	1.3	1.7	2.2	2.7	3.4
Electrical	Power Input	kW	0.016	0.023	0.025	0.027	0.030	0.052
	Run Current	A	0.16	0.23	0.24	0.25	0.28	0.46
	Start Current	A	0.28	0.41	0.43	0.44	0.50	0.80
Indoor Data								
Air Flow	High - Medium - Low	l/s	120 - 112 - 102	153 - 128 - 105	158 - 130 - 105	165 - 140 - 112	183 - 153 - 130	233 - 167 - 145
	High - Medium - Low	m³/h	430 - 400 - 365	552 - 462 - 378	570 - 468 - 378	594 - 504 - 402	660 - 552 - 468	840 - 642 - 522
Sound	Pressure High - Medium - Low	dB(A)	32 - 30 - 29	37 - 33 - 29	38 - 33 - 29	38 - 34 - 30	40 - 35 - 31	47 - 39 - 34
	Power High - Medium - Low	dB(A)	47 - 45 - 44	52 - 48 - 44	53 - 48 - 44	53 - 49 - 45	55 - 50 - 46	62 - 54 - 49
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3
INDOOR RETAIL PRICE			£955	£956	£1,011	£1,045	£1,089	£1,146

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



Standard 600 x 600 ceiling size



VRF 4-Way Cassette Indoor Unit

CODE			28	36	45	56	71
Performance							
Indoor Unit		MMU-	AP0094HP1-E	AP0124HP1-E	AP0154HP1-E	AP0184HP1-E	AP0244HP1-E
Capacity Code		hp	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.5/2.0	3.3/2.5	4.1/3.0	5.1/3.8	6.4/4.6
	Heating	kW	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.021	0.021	0.023	0.026	0.036
	Run Current	A	0.23	0.23	0.27	0.29	0.38
	Start Current	A	0.30	0.30	0.33	0.36	0.42
Indoor Data		MMU-	AP0094HP1-E	AP0124HP1-E	AP0154HP1-E	AP0184HP1-E	AP0244HP1-E
Air Flow	High - Medium - Low	l/s	222 - 203 - 188	222 - 203 - 188	258 - 230 - 220	292 - 255 - 222	358 - 255 - 222
	High - Medium - Low	m³/h	800 - 730 - 680	800 - 730 - 680	930 - 830 - 790	1050 - 920 - 800	1290 - 920 - 800
Sound	Pressure High - Medium - Low	dB(A)	30 - 29 - 27	30 - 29 - 27	31 - 29 - 27	32 - 29 - 27	35 - 31 - 28
	Power High - Medium - Low	dB(A)	45 - 44 - 42	45 - 44 - 42	46 - 44 - 42	47 - 44 - 42	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,074	£1,099	£1,147	£1,172	£1,214

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	AP0274HP1-E	AP0304HP1-E	AP0364HP1-E	AP0484HP1-E	AP0564HP1-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.2	8.2/5.9	10.2/7.3	12.7/9.3	14.5/10.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.036	0.043	0.088	0.112	0.112
	Run Current	A	0.38	0.43	0.73	0.88	0.88
	Start Current	A	0.42	0.59	0.87	1.23	1.26
Indoor Data		MMU-	AP0274HP1-E	AP0304HP1-E	AP0364HP1-E	AP0484HP1-E	AP0564HP1-E
Air Flow	High - Medium - Low	l/s	358 - 255 - 222	367 - 305 - 237	547 - 397 - 297	592 - 397 - 313	592 - 422 - 342
	High - Medium - Low	m³/h	1290 - 920 - 800	1320 - 1100 - 850	1970 - 1430 - 1070	2130 - 1430 - 1130	2130 - 1520 - 1230
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	38 - 33 - 30	43 - 38 - 32	46 - 38 - 33	46 - 40 - 33
	Power High - Medium - Low	dB(A)	50 - 46 - 43	53 - 48 - 45	58 - 53 - 47	61 - 53 - 48	61 - 55 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,402	£1,512	£1,586	£1,648	£1,830

Accessories			
RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-AX32U(W)-E	4-Way Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£160
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



Individual louvre control



VRF 2-Way Cassette Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMU-	AP0072WH1	AP0092WH1	AP0122WH1	AP0152WH1	AP0182WH1	AP0242WH1
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.5	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.7	6.4/4.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.029	0.029	0.029	0.030	0.044	0.054
	Run Current	A	0.23	0.23	0.23	0.24	0.32	0.39
	Start Current	A	0.35	0.35	0.35	0.36	0.48	0.59
Indoor Data								
Air Flow		MMU-	AP0072WH1	AP0092WH1	AP0122WH1	AP0152WH1	AP0182WH1	AP0242WH1
High - Medium - Low		l/s	155 - 138 - 125	155 - 138 - 125	155 - 138 - 125	167 - 148 - 125	250 - 208 - 172	292 - 233 - 205
		m³/h	558 - 498 - 450	558 - 498 - 450	558 - 498 - 450	600 - 534 - 450	900 - 750 - 618	1050 - 840 - 738
Sound	Pressure High - Medium - Low	dB(A)	34 - 32 - 30	34 - 32 - 30	34 - 32 - 30	35 - 33 - 30	35 - 33 - 30	38 - 35 - 33
	Power High - Medium - Low	dB(A)	49 - 47 - 45	49 - 47 - 45	49 - 47 - 45	50 - 48 - 45	50 - 48 - 45	53 - 50 - 48
Unit	Height x Width x Depth	mm	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	345 x 1180 x 570	345 x 1180 x 570
	Weight	kg	19	19	19	19	26	26
Panel	Height x Width x Depth	mm	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1415 x 680	20 x 1415 x 680
	Weight RBC-UW283PG(W)-E	kg	10	10	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,191	£1,223	£1,252	£1,293	£1,470	£1,542

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	AP0272WH1	AP0302WH1	AP0362WH1	AP0482WH1	AP0562WH1
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.0	8.2/5.4	10.2/7.3	12.7/8.5	14.5/9.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.054	0.064	0.073	0.088	0.117
	Run Current	A	0.39	0.46	0.48	0.57	0.75
	Start Current	A	0.59	0.69	0.72	0.86	1.13
Indoor Data		MMU-	AP0272WH1	AP0302WH1	AP0362WH1	AP0482WH1	AP0562WH1
Air Flow	High - Medium - Low	l/s	292 - 233 - 205	350 - 250 - 217	483 - 398 - 328	500 - 412 - 342	567 - 438 - 367
	High - Medium - Low	m³/h	1050 - 840 - 738	1260 - 900 - 780	1740 - 1434 - 1182	1800 - 1482 - 1230	2040 - 1578 - 1320
Sound	Pressure High - Medium - Low	dB(A)	38 - 35 - 33	40 - 37 - 34	42 - 39 - 36	43 - 40 - 37	46 - 42 - 39
	Power High - Medium - Low	dB(A)	53 - 50 - 48	55 - 52 - 49	57 - 54 - 51	58 - 55 - 52	61 - 57 - 54
Unit	Height x Width x Depth	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
	Weight	kg	26	26	36	36	36
Panel	Height x Width x Depth	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
	Weight RBC-UW283PG(W)-E	kg	14	14	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,727	£1,741	£2,072	£2,238	£2,421

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-AX32UW(W)-E	2-Way Cassette Receiver	Replacement receiver and remote controller	£189
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF 1-Way Cassette Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMU-	AP0074YH1-E	AP0094YH1-E	AP0124YH1-E	AP0154SH1-E	AP0184SH1-E	AP0244SH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.7	2.5/2.1	3.3/2.5	4.1/3.0	5.1/3.7	6.4/4.7
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.053	0.053	0.053	0.042	0.046	0.075
	Run Current	A	0.24	0.24	0.24	0.34	0.37	0.62
	Start Current	A	0.60	0.60	0.60	0.51	0.54	0.80
Indoor Data		MMU-	AP0074YH1-E	AP0094YH1-E	AP0124YH1-E	AP0154SH1-E	AP0184SH1-E	AP0244SH1-E
Air Flow	High - Medium - Low	l/s	150 - 133 - 117	150 - 133 - 117	150 - 133 - 117	208 - 192 - 175	217 - 200 - 183	317 - 267 - 225
	High - Medium - Low	m³/h	540 - 480 - 420	540 - 480 - 420	540 - 480 - 420	750 - 690 - 630	780 - 720 - 660	1140 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 34	42 - 39 - 34	42 - 39 - 34	37 - 35 - 32	38 - 36 - 34	45 - 41 - 37
	Power High - Medium - Low	dB(A)	57 - 54 - 49	57 - 54 - 49	57 - 54 - 49	52 - 50 - 47	53 - 51 - 49	60 - 56 - 52
Unit	Height x Width x Depth	mm	235 x 850 x 400	235 x 850 x 400	235 x 850 x 400	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710
	Weight	kg	22	22	22	21	21	22
Panel	Height x Width x Depth	mm	18 x 1050 x 470	18 x 1050 x 470	18 x 1050 x 470	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800
	Weight RBC-UW283PG(W)-E	kg	3.5	3.5	3.5	5.5	5.5	5.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,401	£1,438	£1,473	£1,422	£1,583	£1,665

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-AX33CE	Ceiling Receiver	Replacement receiver and remote controller	£176
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF Slim Ducted Indoor Unit

CODE			17	22	28	36
Performance						
Indoor Unit		MMD-	AP0056SPH1-E	AP0074SPH1-E	AP0094SPH1-E	AP0124SPH1-E
Capacity Code		hp	0.6	0.8	1.0	1.25
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.0	3.3/2.4
	Heating	kW	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.038	0.039	0.039	0.043
	Run Current	A	0.29	0.29	0.29	0.31
	Start Current	A	0.51	0.51	0.51	0.54
Indoor Data						
Air Flow	High - Medium - Low	l/s	121 - 111 - 103	150 - 130 - 112	150 - 130 - 112	167 - 145 - 125
	High - Medium - Low	m³/h	435 - 400 - 370	540 - 470 - 400	540 - 470 - 400	600 - 520 - 450
External Static Pressure	Standard	Pa	6	6	6	5
	Upper - Lower	Pa	50 - 10	50 - 10	50 - 10	50 - 10
Sound pressure	Back Inlet High - Medium - Low	dB(A)	26 - 25 - 24	28 - 26 - 24	28 - 26 - 24	29 - 27 - 25
	Under Inlet High - Medium - Low	dB(A)	33 - 32 - 30	36 - 33 - 30	36 - 33 - 30	38 - 35 - 32
Sound power	Back Inlet High - Medium - Low	dB(A)	41 - 40 - 39	43 - 41 - 39	43 - 41 - 39	44 - 42 - 40
	Under Inlet High - Medium - Low	dB(A)	48 - 47 - 45	51 - 48 - 45	51 - 48 - 45	53 - 50 - 47
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP20	VP25 - VP20	VP25 - VP20	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£732	£732	£742	£763

CODE			45	56	71	80
Performance						
Indoor Unit		MMD-	AP0154SPH1-E	AP0184SPH1-E	AP0244SPH1-E	AP0274SPH1-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.0	5.1/3.7	6.4/4.5	7.3/5.1
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.045	0.054	0.105	0.105
	Run Current	A	0.32	0.39	0.75	0.75
	Start Current	A	0.56	0.68	1.13	1.13
Indoor Data						
Air Flow	High - Medium - Low	l/s	192 - 167 - 145	217 - 188 - 162	300 - 278 - 250	300 - 278 - 250
	High - Medium - Low	m³/h	690 - 600 - 520	780 - 680 - 580	1080 - 1000 - 900	1080 - 1000 - 900
External Static Pressure	Standard	Pa	5	4	2	2
	Upper - Lower	Pa	50 - 10	50 - 10	50 - 10	50 - 10
Sound pressure	Back Inlet High - Medium - Low	dB(A)	32 - 30 - 28	33 - 31 - 29	38 - 36 - 33	38 - 36 - 33
	Under Inlet High - Medium - Low	dB(A)	39 - 36 - 33	40 - 38 - 36	49 - 47 - 44	49 - 47 - 44
Sound power	Back Inlet High - Medium - Low	dB(A)	47 - 45 - 43	48 - 46 - 44	53 - 51 - 48	53 - 51 - 48
	Under Inlet High - Medium - Low	dB(A)	54 - 51 - 48	55 - 53 - 51	64 - 62 - 59	64 - 62 - 59
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 1140 x 645	210 x 1140 x 645
	Weight	kg	23	23	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP20	VP25 - VP20	VP25 - VP20	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£795	£835	£901	£973

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Standard Ducted Indoor Unit

CODE			22	28	36	45	56	71	
Performance									
Indoor Unit			MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Capacity Code			hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible		kW	2.0/1.7	2.5/2.2	3.3/2.5	4.1/3.3	5.1/3.8	6.4/4.9
	Heating		kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input		kW	0.038	0.043	0.043	0.062	0.062	0.077
	Run Current		A	0.26	0.29	0.29	0.42	0.42	0.52
	Start Current		A	0.45	0.50	0.50	0.73	0.73	0.90
Indoor Data			MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Air Flow	High - Medium - Low		l/s	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	217 - 183 - 150	217 - 183 - 150	333 - 267 - 242
	High - Medium - Low		m³/h	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	798 - 660 - 540	798 - 660 - 540	1200 - 990 - 870
External Static Pressure	Standard		Pa	30	30	30	30	30	40
	Upper - Lower		Pa	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30
Sound	Pressure High - Medium - Low		dB(A)	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25	36 - 31 - 27
	Power High - Medium - Low		dB(A)	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40	51 - 46 - 42
Unit	Height x Width x Depth		mm	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750
	Weight		kg	23	23	23	23	23	30
Pipe Connection	Flare Connections (gas - liquid)		inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection Upper - Lower		mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base		mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size		V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE				£828	£804	£849	£874	£933	£975

CODE			80	90	112	140	160	
Performance								
Indoor Unit			MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Capacity Code			hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity		kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity		kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible		kW	7.3/5.5	8.2/6.1	10.2/7.8	12.7/9.3	14.5/10.3
	Heating		kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input		kW	0.077	0.094	0.172	0.198	0.198
	Run Current		A	0.52	0.61	1.07	1.23	1.23
	Start Current		A	0.90	1.06	1.85	2.13	2.13
Indoor Data			MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Air Flow	High - Medium - Low		l/s	333 - 267 - 242	350 - 300 - 258	533 - 450 - 383	583 - 483 - 417	583 - 483 - 417
	High - Medium - Low		m³/h	1200 - 990 - 870	1260 - 1110 - 930	1920 - 1620 - 1380	2100 - 1740 - 1500	2100 - 1740 - 1500
External Static Pressure	Standard		Pa	40	40	50	50	50
	Upper - Lower		Pa	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30
Sound	Pressure High - Medium - Low		dB(A)	36 - 31 - 27	36 - 31 - 27	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low		dB(A)	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth		mm	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight		kg	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)		inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower		mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base		mm	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size		V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE				£1,081	£1,154	£1,323	£1,415	£1,502

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#HP1-E	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	£147



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF High-Static Ducted Indoor Unit

CODE		56		71		80		112	
Performance									
Indoor Unit		MMD-	AP0186HP1-E	AP0246HP1-E		AP0276HP1-E		AP0366HP1-E	
Capacity Code		hp	2.0	2.5		3.0		4.0	
Nominal	Cooling Capacity	kW	5.6	7.1		8.0		11.2	
	Heating Capacity	kW	6.3	8.0		9.0		12.5	
UK	Cooling Total/Sensible	kW	5.1/3.7	6.4/4.9		7.3/5.5		10.2/7.8	
	Heating	kW	4.3	5.4		6.1		8.5	
Electrical	Power Input	kW	0.085	0.115		0.115		0.198	
	Run Current	A	0.52	0.70		0.70		1.17	
	Start Current	A	0.78	1.05		1.05		1.75	

Indoor Data		MMD-	AP0186HP1-E	AP0246HP1-E	AP0276HP1-E	AP0366HP1-E
Air Flow	Standard	l/s	222	333	333	533
	Upper - Lower	l/s	222 - 153	333 - 222	333 - 222	533 - 372
	Standard	m³/h	800	1200	1200	1920
	Upper - Lower	m³/h	800 - 550	1200 - 800	1200 - 800	1920 - 1340
External Static Pressure	Standard	Pa	100	100	100	100
	Upper - Lower	Pa	200 - 50	200 - 50	200 - 50	200 - 50
Sound	Pressure High - Medium - Low	dB(A)	37 - 32 - 30	38 - 34 - 31	38 - 34 - 31	41 - 37 - 34
	Power High - Medium - Low	dB(A)	60 - 54 - 50	60 - 55 - 51	60 - 55 - 51	62 - 57 - 53
Unit	Height x Width x Depth	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
	Weight	kg	34	34	34	43
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10

INDOOR RETAIL PRICE	£1,096	£1,208	£1,260	£1,322
----------------------------	---------------	---------------	---------------	---------------

CODE		140		160		224		280	
Performance									
Indoor Unit		MMD-	AP0486HP1-E	AP0566HP1-E	AP0726HP-E	AP0966HP-E			
Capacity Code		hp	5.0	6.0	8.0	10.0			
Nominal	Cooling Capacity	kW	14.0	16.0	22.4	28.0			
	Heating Capacity	kW	16.0	18.0	25.0	31.5			
UK	Cooling Total/Sensible	kW	12.7/9.3	14.5/10.6	20.3/14.1	25.4/17.3			
	Heating	kW	10.9	12.2	17.0	21.4			
Electrical	Power Input	kW	0.230	0.290	0.540	0.790			
	Run Current	A	1.34	1.68	2.80	3.75			
	Start Current	A	2.01	2.51	7.80	7.80			

Indoor Data		MMD-	AP0486HP1-E	AP0566HP1-E	AP0726HP-E	AP0966HP-E
Air Flow	Standard	l/s	583	666	1055	1333
	Upper - Lower	l/s	583 - 394	667 - 461	1056 - 694	1333 - 972
	Standard	m³/h	2100	2400	3800	4800
	Upper - Lower	m³/h	2100 - 1420	2400 - 1660	3800 - 2500	4800 - 3500
External Static Pressure	Standard	Pa	100	100	150	150
	Upper - Lower	Pa	200 - 50	200 - 50	250 - 50	250 - 50
Sound	Pressure High - Medium - Low	dB(A)	42 - 40 - 35	45 - 42 - 37	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	65 - 62 - 54	68 - 64 - 56	67 - 62 - 56	69 - 64 - 58
Unit	Height x Width x Depth	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	43	43	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£1,462	£1,565	£2,640	£2,790
----------------------------	---------------	---------------	---------------	---------------

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-LK801D-E	Filter Kit	Long Life Filter Kit MMD-AP018#-027#BHP1-E	£POA
TCB-LK1401D-E	Filter Kit	Long Life Filter Kit MMD-AP036#-056#BHP1-E	£POA



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Vertical Ducted Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.7	2.5/2.2	3.3/2.5	4.1/3.3	5.1/3.8	6.4/4.9
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.038	0.043	0.043	0.062	0.062	0.077
	Run Current	A	0.26	0.29	0.29	0.42	0.42	0.52
	Start Current	A	0.45	0.50	0.50	0.73	0.73	0.90

Indoor Data		MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Air Flow	High - Medium - Low	l/s	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	217 - 183 - 150	217 - 183 - 150	333 - 267 - 242
	High - Medium - Low	m³/h	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	798 - 660 - 540	798 - 660 - 540	1200 - 990 - 870
External Static Pressure	Standard	Pa	30	30	30	30	30	40
	Upper - Lower	Pa	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30
Sound	Pressure High - Medium - Low	dB(A)	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25	36 - 31 - 27
	Power High - Medium - Low	dB(A)	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40	51 - 46 - 42
Unit	Height x Width x Depth	mm	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 1000 x 275
	Weight	kg	23	23	23	23	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

RBC-VCK1 VERTICAL CONVERSION KIT	£467	£467	£467	£467	£467	£467
INDOOR UNIT	£828	£804	£849	£874	£933	£975
INDOOR RETAIL PRICE	£1,295	£1,271	£1,316	£1,341	£1,400	£1,442

CODE			80	90	112	140	160	
Performance								
Indoor Unit			MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Capacity Code			hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0	
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0	
UK	Cooling Total/Sensible	kW	7.3/5.5	8.2/6.1	10.2/7.8	12.7/9.3	14.5/10.3	
	Heating	kW	6.1	6.8	8.5	10.9	12.2	
Electrical	Power Input	kW	0.077	0.094	0.172	0.198	0.198	
	Run Current	A	0.52	0.61	1.07	1.23	1.23	
	Start Current	A	0.90	1.06	1.85	2.13	2.13	

Indoor Data		MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Air Flow	High - Medium - Low	l/s	333 - 267 - 242	350 - 300 - 258	533 - 450 - 383	583 - 483 - 417	583 - 483 - 417
	High - Medium - Low	m³/h	1200 - 990 - 870	1260 - 1110 - 930	1920 - 1620 - 1380	2100 - 1740 - 1500	2100 - 1740 - 1500
External Static Pressure	Standard	Pa	40	40	50	50	50
	Upper - Lower	Pa	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30
Sound	Pressure High - Medium - Low	dB(A)	36 - 31 - 27	36 - 31 - 27	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	750 x 1000 x 275	750 x 1000 x 275	750 x 1400 x 275	750 x 1400 x 275	750 x 1400 x 275
	Weight	kg	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

RBC-VCK1 VERTICAL CONVERSION KIT	£467	£467	£467	£467	£467
INDOOR UNIT	£1,081	£1,154	£1,323	£1,415	£1,502
INDOOR RETAIL PRICE	£1,548	£1,621	£1,790	£1,882	£1,969

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#BHP1-E	£99
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	£115
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	£147



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Ceiling-Suspended Indoor Unit - 8 Series

CODE			45	56	71	80
Performance						
Indoor Unit		MMC-	AP0158HP-E	AP0188HP-E	AP0248HP-E	AP0278HP-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.0	5.1/3.7	6.4/4.8	7.3/5.3
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.033	0.034	0.067	0.067
	Run Current	A	0.036	0.037	0.065	0.065
	Start Current	A	0.54	0.55	0.97	0.97
Indoor Data						
Air Flow	High - Medium - Low	l/s	233 - 200 - 150	267 - 200 - 150	400 - 283 - 217	400 - 283 - 217
	High - Medium - Low	m³/h	840 - 690 - 540	960 - 720 - 540	1440 - 1020 - 750	1440 - 1020 - 750
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 28	37 - 35 - 28	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	51 - 49 - 43	52 - 50 - 43	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	24	24	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,174	£1,298	£1,375	£1,387

CODE			112	140	160
Performance					
Indoor Unit		MMC-	AP0368HP-E	AP0488HP-E	AP0568HP-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14.0	16.0
	Heating Capacity	kW	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	10.2/7.2	12.7/9.3	14.5/9.4
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.083	0.083	0.111
	Run Current	A	0.770	0.770	0.990
	Start Current	A	1.16	1.16	1.49
Indoor Data					
Air Flow	High - Medium - Low	l/s	517 - 383 - 283	517 - 433 - 333	567 - 467 - 350
	High - Medium - Low	m³/h	1860 - 1350 - 1020	1860 - 1530 - 1200	2040 - 1650 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 32	44 - 41 - 35	46 - 42 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 47	59 - 56 - 50	61 - 57 - 51
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	39	39	39
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,409	£1,433	£1,534

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-AX33CE	Ceiling Receiver	Replacement receiver and remote controller	£176
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69
TCB-DP31CE	Drain Pump	Condensate lift pump for ceiling-suspended units	£233



Ceiling installation



Drain connection both sides



Automatic restart



Multi-split branching



VRF Concealed-Chassis Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MML-	AP0074BH1-E	AP0094BH1-E	AP0124BH1-E	AP0154BH1-E	AP0184BH1-E	AP0244BH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.3	2.5/1.5	3.3/2.1	4.1/2.7	5.1/3.3	6.4/4.2
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.056	0.056	0.056	0.090	0.090	0.095
	Run Current	A	0.25	0.25	0.25	0.45	0.45	0.46
	Start Current	A	0.60	0.60	0.60	0.80	0.80	1.00
Indoor Data								
Air Flow		MML-	AP0074BH1-E	AP0094BH1-E	AP0124BH1-E	AP0154BH1-E	AP0184BH1-E	AP0244BH1-E
Air Flow	High - Medium - Low	l/s	133 - 117 - 83	133 - 117 - 83	133 - 117 - 83	200 - 167 - 133	200 - 167 - 133	267 - 217 - 183
	High - Medium - Low	m³/h	460 - 400 - 300	460 - 400 - 300	460 - 400 - 300	740 - 600 - 490	740 - 600 - 490	950 - 790 - 640
External Static Pressure	Standard	Pa	5	5	5	5	5	5
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	21	21	21	29	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£828	£849	£875	£913	£972	£1,011

VRF Floor-Mounted Console Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MML-	AP0074H1-E	AP0094H1-E	AP0124H1-E	AP0154H1-E	AP0184H1-E	AP0244H1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.3	2.5/1.5	3.3/2.1	3.8/2.5	5.1/3.3	6.4/4.2
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.056	0.056	0.092	0.092	0.102	0.102
	Run Current	A	0.260	0.260	0.430	0.430	0.470	0.470
	Start Current	A	0.60	0.60	0.80	0.80	1.10	1.10
Indoor Data		MML-	AP0074H1-E	AP0094H1-E	AP0124H1-E	AP0154H1-E	AP0184H1-E	AP0244H1-E
Air Flow	High - Medium - Low	l/s	133 - 117 - 100	133 - 117 - 100	250 - 217 - 180	250 - 217 - 180	300 - 267 - 217	300 - 267 - 217
	High - Medium - Low	m³/h	480 - 420 - 360	480 - 420 - 360	900 - 780 - 650	900 - 780 - 650	1080 - 930 - 780	1080 - 930 - 780
Sound	Pressure High - Medium - Low	dB(A)	39 - 37 - 35	39 - 37 - 35	45 - 41 - 38	45 - 41 - 38	49 - 44 - 39	49 - 44 - 39
	Power High - Medium - Low	dB(A)	54 - 52 - 50	54 - 52 - 50	60 - 56 - 53	60 - 56 - 53	64 - 59 - 54	64 - 59 - 54
Unit	Height x Width x Depth	mm	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230
	Weight	kg	37	37	37	37	37	37
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£993	£1,016	£1,041	£1,134	£1,162	£1,212

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69

Concealed false wall installation
(concealed chassis unit)

Floor-mounted console



Automatic restart



Multi-split branching



VRF Bi-Flow Console Indoor Unit

CODE			22	28	36	45	56
Performance							
Indoor Unit		MML-	AP0074NH1-E	AP0094NH1-E	AP0124NH1-E	AP0154NH1-E	AP0184NH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	2.0/1.6	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input	kW	0.021	0.021	0.025	0.034	0.052
	Run Current	A	0.20	0.20	0.23	0.29	0.42
	Start Current	A	0.26	0.26	0.30	0.38	0.55
Indoor Data							
Air Flow	High - Medium - Low	l/s	150 - 100 - 83	150 - 100 - 83	150 - 117 - 83	167 - 133 - 100	200 - 150 - 117
	High - Medium - Low	m³/h	510 - 366 - 282	510 - 366 - 282	552 - 408 - 324	624 - 468 - 384	726 - 528 - 426
Sound	Pressure High - Medium - Low	dB(A)	38 - 32 - 26	38 - 32 - 26	40 - 34 - 29	43 - 37 - 31	47 - 40 - 34
	Power High - Medium - Low	dB(A)	53 - 47 - 41	53 - 47 - 41	55 - 49 - 44	58 - 52 - 46	62 - 55 - 49
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	17	17	17	17	17
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)
INDOOR RETAIL PRICE			£1,058	£1,140	£1,222	£1,304	£1,352

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Floor-mounted bi-flow



Automatic restart



Multi-split branching



VRF Floor-Mounted Cabinet Indoor Unit

CODE			45	56	71	80
Performance						
Indoor Unit		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E	AP0276H1-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.2	5.1/3.9	6.4/5.0	7.3/5.6
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.055	0.055	0.089	0.089
	Run Current	A	0.38	0.38	0.60	0.60
	Start Current	A	0.53	0.53	0.84	0.84
Indoor Data						
Air Flow	High - Medium - Low	l/s	250 - 217 - 183	250 - 217 - 183	333 - 275 - 233	333 - 275 - 233
	High - Medium - Low	m³/h	900 - 780 - 660	900 - 780 - 660	1200 - 990 - 840	1200 - 990 - 840
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	46 - 42 - 37	49 - 45 - 39	49 - 45 - 39
	Power High - Medium - Low	dB(A)	61 - 57 - 52	61 - 57 - 52	64 - 60 - 54	64 - 60 - 54
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	46	47	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.401	£1.485	£1.549	£1.595

CODE			112	140	160
Performance					
Indoor Unit		MMF-	AP0366H1-E	AP0486H1-E	AP0566H1-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14.0	16.0
	Heating Capacity	kW	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	10.2/7.6	12.7/9.3	14.5/10.8
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.135	0.160	0.160
	Run Current	A	0.90	1.10	1.10
	Start Current	A	1.26	1.54	1.54
Indoor Data					
Air Flow	High - Medium - Low	l/s	533 - 450 - 383	600 - 481 - 433	600 - 481 - 433
	High - Medium - Low	m³/h	1920 - 1620 - 1380	2160 - 1730 - 1560	2160 - 1730 - 1560
Sound	Pressure High - Medium - Low	dB(A)	51 - 46 - 41	54 - 49 - 44	54 - 49 - 44
	Power High - Medium - Low	dB(A)	66 - 61 - 56	69 - 64 - 59	69 - 64 - 59
Unit	Height x Width x Depth	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	62	62	62
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,643	£1,726	£1,811

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS5E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



Floor-mounted cabinet



Automatic restart



Multi-split branching



VRF Fresh Air Intake Indoor Unit

CODE		140		224		280	
Performance							
Indoor Unit		MMD-	AP0481HFE	AP0721HFE	AP0961HFE		
Capacity Code		hp	5.0	8.0	10.0		
Nominal	Cooling Capacity	kW	14.0	22.4	28.0		
	Heating Capacity	kW	8.9	13.9	17.4		
UK	Cooling Total/Sensible	kW	12.7/6.3	20.3/9.9	25.4/12.4		
	Heating	kW	6.0	9.4	11.8		
Operating Limits	Indoor Temperature Range	°C	16-27	16-27	16-27		
	Cooling Limit	°C	19	19	19		
	Ambient Cooling Fan Only	°C	≥ 5/≤ 19	≥ 5/≤ +19	≥ 5/≤ 19		
	Heating Limit	°C	≥ -3/≤ 15	≥ -3/≤ 15	≥ -3/≤ 15		
	Fan Stop Cooling - Heating	°C	≤ 3/≤ -5	≤ 3/≤ -5	≤ 3/≤ -5		
Electrical	Power Input	kW	0.280	0.450	0.520		
	Run Current	A	1.43	2.52	2.73		
	Start Current	A	3.50	7.00	7.00		
Indoor Data		MMD-	AP0481HFE	AP0721HFE	AP0961HFE		
Air Flow	Standard	l/s	300	467	583		
	Upper - Lower	l/s	333 - 217	517 - 333	650 - 417		
	Standard	m³/h	1080	1680	2100		
	Upper - Lower	m³/h	1188 - 756	1848 - 1176	2310 - 1470		
External Static Pressure	Standard	Pa	210	165	190		
	Upper - Lower	Pa	230 - 170	180 - 140	205 - 160		
Sound	Pressure High - Medium - Low	dB(A)	45 - 43 - 41	46 - 45 - 44	46 - 45 - 44		
	Power High - Medium - Low	dB(A)	65 - 63 - 61	66 - 65 - 64	66 - 65 - 64		
Unit	Height x Width x Depth	mm	492 x 892 x 1262	492 x 1392 x 1262	492 x 1392 x 1262		
	Weight	kg	93	144	144		
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2		
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25		
Height Difference	Fresh Air Intake To Fresh Air Intake	m	±0.5	±0.5	±0.5		
	Fresh Air Intake To Indoor	m	±30	±30	±30		
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-15	220-240/1/50-15		
INDOOR RETAIL PRICE		£2.053		£3.399	£3.590		

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£232
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10

Note: Connect to SMMSe only. Maximum connected capacity 30% of outdoor capacity.



Concealed false ceiling installation



Automatic restart



Multi-split branching



VRF Hot Water Module Indoor Unit

The VRF Hot Water Module enables the production of hot water from a standard VRF SMMSe and SHRMe system using waste heat that would normally be exhausted to the atmosphere. The Hot Water Module available in 2.5 hp and 5 hp configurations is capable of providing 8 kW and 16 kW of heating respectively to generate hot water up to 45°C. With the addition of an externally-fitted back-up heater the hot water temperature can be increased to 50°C. Hot Water Modules can be combined in multiples of two for systems above 8 hp.

CODE			80	160
Performance				
Indoor Unit		MMW-	AP0271LQ-E	AP0561LQ-E
Capacity Code		hp	2.5	5.0
Nominal	Heating Capacity	kW	8.0	16.0
Operating Modes			Heating	Heating
Heating	Operating Ambient Range	°C WB	-20 - 19	-20 - 19
	Operation Water Side (min. - max.)	°C	25 - 50	25 - 50
Electrical	Power Input	kW	0.014	0.014
	Run Current	A	0.080	0.080
Indoor Data				
Indoor Unit		MMW-	AP0271LQ-E	AP0561LQ-E
Sound pressure		dB(A)	25	27
Unit	Height x Width x Depth	mm	580 x 400 x 250	580 x 400 x 250
	Weight	kg	18	20
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Water	mm	R1-1/4 (PT1-1/4 Screw)	R1-1/4 (PT1-1/4 Screw)
Refrigerant	Type		R410A	R410A
	Charge Amount (liquid pipe length)	kg	Std VRF calculation	Std VRF calculation
Water	Circulating Pump (not included)		Field Supplied	0
	Design Pressure	mPa	3.73	3.73
	Design Pressure	mPa	1	1
	Nominal Flow Rate	l/min	22.9	45.8
	Minimum Flow Rate	l/min	19.5	38.9
	ΔT	°C	5	5
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£2,500	£2,563



Hot water production



Automatic restart



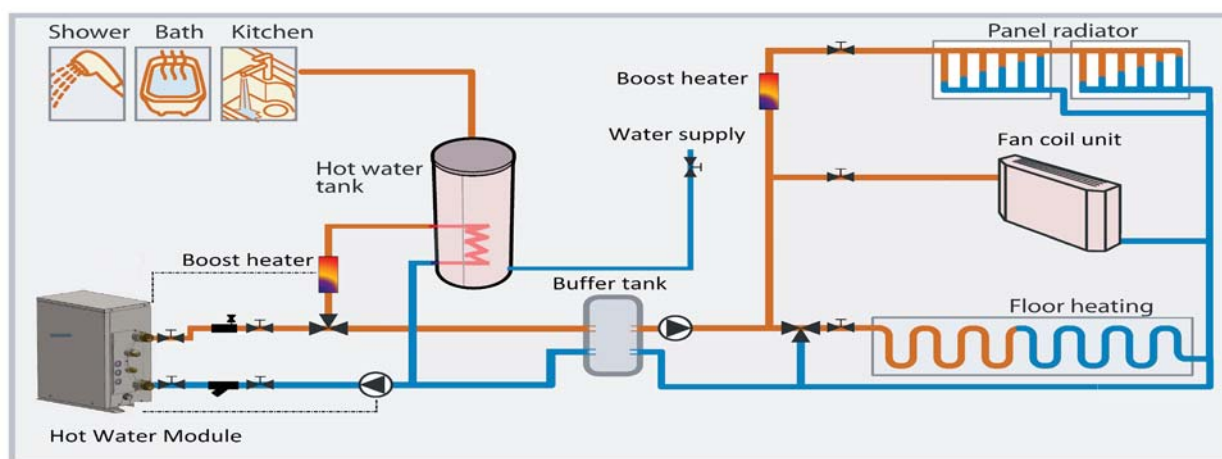
Multi-split branching

Minimum diversity is 70% when Hot Water Module MMW is connected to SMMSe

8 hp	10 hp	12 hp	14 hp	16 hp	18 hp	20 hp	22 hp	24 hp	26 hp	28 hp	30 hp	32 hp	34 hp	36 hp	38 hp	40 hp	42 hp	44 hp	46 hp	48 hp
96%	90%	86%	83%	81%	79%	78%	76%	75%	75%	74%	73%	73%	72%	72%	72%	71%	71%	71%	70%	70%

Minimum diversity 65%, combination FCU connection with HWM

Calculation Diversity (Indoor Air Conditioner hp (min.65%) + HWM/Outdoor hp
Example 48 hp: (31.2 hp + 3 hp)/48 hp = 70.2%





VRF High Temperature Hot Water Module Indoor Unit

The VRF High Temperature Hot Water Module enables the production of hot water from a standard VRF SHRMe system using waste heat that would normally be exhausted to the atmosphere. The High Temperature Hot Water Module available in 4.5 hp configuration is capable of providing 14 kW of heating to generate hot water up to 85°C. High Temperature Hot Water Modules can be combined in multiples of two for systems above 8 hp.

CODE			140
Performance			
Indoor Unit		MMW-	AP0481CHQ-E
Capacity Code		hp	4.5
Nominal	Nominal Capacity	kW	14.0
Operating Modes	Water Temperature (up to)	°C	85
Heating	Operating Ambient Range	°C	-25 - 46
	Operation Indoor (min. - max.)	°C	5 - 32
Electrical	Power Input	kW	4.15
	Run Current	A	17.5
Indoor Data			
Indoor Unit		MMW-	AP0481CHQ-E
Sound pressure		dB(A)	44
Unit	Height x Width x Depth	mm	700 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Water	mm	R1-1/4 (PT1-1/4 Screw)
Refrigerant	Type		R134A
	Charge Amount (liquid pipe length)	kg	2.1
Water	Circulating Pump (not included)		Local Procurement
	Hydronic Components		Local Procurement
	Design Pressure	mPa	1
	Nominal Flow Rate	l/min	40.0
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5
INDOOR RETAIL PRICE			£6,391



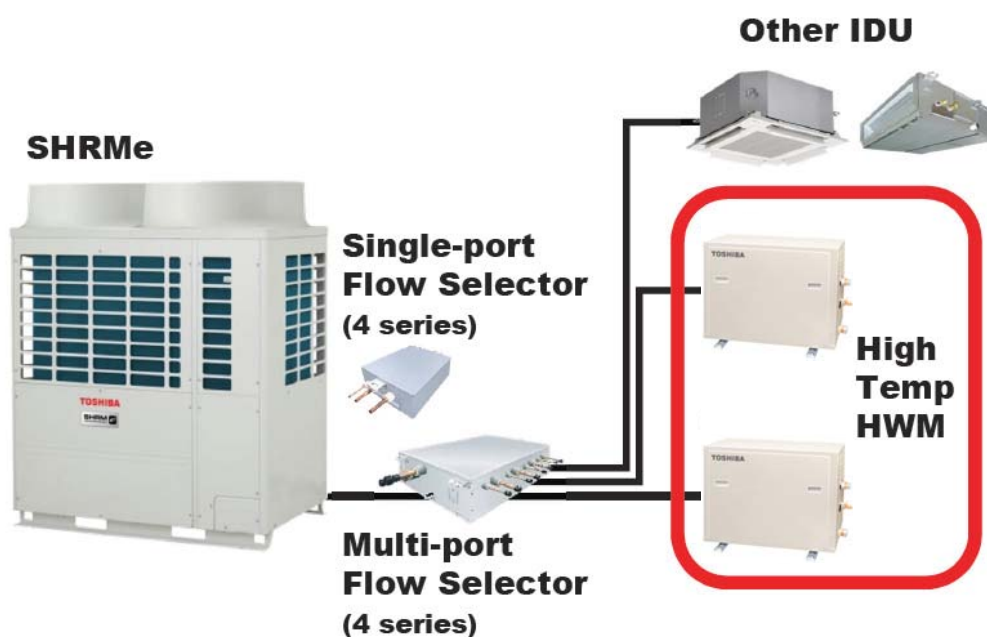
Hot water production



Automatic restart



Multi-split branching



Air Handling Units Interface Panels

Air handling unit interface panels enable the connection of third-party air handling units with a DX coil(s) to Toshiba light commercial Digital Inverter, Super Digital Inverter and VRF outdoor units.



Our versatile range of heat pump inverter-controlled outdoor units can be connected to DX coils installed in other manufacturers' air handlers in single or multiple circuits using any of the Toshiba range of Digital Inverter, Super Digital Inverter or VRF inverter outdoor units available in a capacity range from 2.5 kW to 171 kW (maximum single circuit capacity 25 kW).

Available in 1 phase or 3 phase electrical supply versions the Toshiba range of outdoor units will operate in ambient temperatures of -25°C to 46°C dependent on model size, and offers excellent part-load efficiency performance that delivers energy savings when operating in both heating and cooling seasons.

The Toshiba range of heat pump inverter-controlled outdoor units offers flexible design and easy installation when connected to our standard range of AHU interface control panels and pulse modulated valve (PMV) accessories.

Available for operation in:

- Single-circuit
- Multi-circuit
- VRF





RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32

CODE			25	35	50	71	
Outdoor Unit			RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
Cooling Range (Min. - Max.)			kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0
Heating Range (Min. - Max.)			kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
Ambient Operating Range Cooling/Heating			°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Fan(s)	Motor Power	W	43	43	43	43	
	Standard Air Flow	l/s	500	611	667	750	
	Standard Air Flow	m³/min	30	37	40	45	
	Standard Air Flow	m³/h	1800	2200	2400	2700	
Sound	Pressure Level C/H	dB(A)	46/47	49/50	46/48	48/52	
	Power Level C/H	dB(A)	61/62	64/65	63/65	65/69	
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	0.75	1.1	1.1	1.6	
	Height x Width x Depth		mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Total Weight		kg	29	34	40	44
	Refrigerant		Control	Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve
		Gas Type	R32	R32	R32	R32	
		Base Charge/Chargeless To	kg/m	0.63/15	0.9/15	0.9/20	1.3/20
		Additional Charge Main Liquid Side	g/m	20	20	20	35
		Replacement Technology	Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12
Pipe Connections	Min.-Max. Length		m	2-20	2-20	5-30	5-30
	Height Difference Outdoor To AHU		m	±10	±10	±30	±30
	Gas Side		inch	3/8	1/2	1/2	5/8
	Liquid Side		inch	1/4	1/4	1/4	3/8
	Drain Port Connector Hose Inner Diameter		mm	16	16	16	16
Electrical	Power Supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Maximum Run Current		A	4.17	5.60	7.31	10.40
	Suggested Fused Supply		A	10	10	16	16
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth		mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight		kg	10	10	10	10
Electrical	Power Supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output			12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output			12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP		V	0	0	0	0
	Wired controller ON/OFF Lock		V	0	0	0	0
	Suggested Fused Supply		A	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	2.5	3.6	5.6	8.0	
	Heating	kW	3.4	4.0	6.3	9.0	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 720	480 - 880	480 - 1100	700 - 1500	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	4	4	4 - 6	6 - 8	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	
Maximum System Operating Pressure		mPa	4.15	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£473	£473	£473	£473	
OUTDOOR RETAIL PRICE			£590	£707	£863	£1,154	
SYSTEM RETAIL PRICE			£1,063	£1,180	£1,336	£1,627	



RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32 (continued)

CODE			100	100	125	125	
Outdoor Unit			RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Cooling Range (Min. - Max.)			kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
Heating Range (Min. - Max.)			kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
Ambient Operating Range Cooling/Heating			°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Fan(s)	Motor Power	W	100	100	100	100	
	Standard Air Flow	l/s	1133	1133	1167	1167	
	Standard Air Flow	m³/min	68	68	70	70	
	Standard Air Flow	m³/h	4080	4080	4200	4200	
	Pressure Level C/H	dB(A)	54/57	54/57	55/57	55/57	
Sound	Power Level C/H	dB(A)	70/74	70/74	70/74	70/74	
	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
Unit	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	3.0	2.5	3.0	3.0	
	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	
	Total Weight	kg	68	69	68	69	
	Refrigerant		Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve	
	Control		R32	R32	R32	R32	
	Gas Type		R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	
	Base Charge/Chargeless To	kg/m	2.1/30	2.1/30	2.1/30	2.1/30	
	Additional Charge Main Liquid Side Replacement Technology	g/m	35	35	35	35	
Pipe Connections	Min.-Max. Length	m	5-50	5-50	5-50	5-50	
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	
	Gas Side	inch	5/8	5/8	5/8	5/8	
	Liquid Side	inch	3/8	3/8	3/8	3/8	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16	
	Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50-20	220-240/1/50	380-415/3/50-20
	Maximum Run Current	A	14.20	4.75	20.75	6.90	
	Suggested Fused Supply	A	20	10	32	10	
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	0	
	Wired controller ON/OFF Lock	V	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	11.2	11.2	13.2	13.2	
	Heating	kW	13.0	13.0	16.0	13.0	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2500	1260 - 2500	1260 - 2750	1260 - 2500	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	6 - 10	6 - 10	8 - 12	8 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£473	£473	£473	£473	
OUTDOOR RETAIL PRICE			£1,589	£1,753	£1,697	£1,863	
SYSTEM RETAIL PRICE			£2,062	£2,226	£2,170	£2,336	



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R32

CODE			50	71	100	125	
Outdoor Unit			RAV-	GP561ATP-E	GP801AT-E	GP1101AT-E	GP1401AT-E
Cooling Range (Min. - Max.)			kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	3.1 - 14.0
Heating Range (Min. - Max.)			kW	0.9 - 8.1	1.3 - 11.3	2.6 - 13.0	2.6 - 16.5
Ambient Operating Range Cooling/Heating			°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Fan(s)	Motor Power	W	43	100+100	100+100	100+100	
	Standard Air Flow	l/s	625	883	1933	1933	
	Standard Air Flow	m³/min	38	53	116	116	
	Standard Air Flow	m³/h	2250	3180	6960	6960	
Sound	Pressure Level C/H	dB(A)	46/48	46/48	49/50	50/51	
	Power Level C/H	dB(A)	63/65	63/65	66/67	67/68	
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	1.1	2.0	3.75	3.75	
	Height x Width x Depth		mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
	Total Weight	kg	45	74	104	104	
	Refrigerant		Control	Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve
		Gas Type	R32	R32	R32	R32	
		Base Charge/Chargeless To	kg/m	1.35/20	1.9/30	3.1/30	3.1/30
		Additional Charge Main Liquid Side	g/m	20	35	35	35
		Replacement Technology	Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	3-50	3-50	3-75	3-75	
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	
	Gas Side	inch	1/2	5/8	5/8	5/8	
	Liquid Side	inch	1/4	3/8	3/8	3/8	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Maximum Run Current	A	6.33	8.56	11.20	15.36	
	Suggested Fused Supply	A	16	16	20	25	
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	0	
	Wired controller ON/OFF Lock	V	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	4.0	5.6	8.0	12.0	
	Heating	kW	5.0	8.1	11.3	13.0	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5.00	5.00	
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 880	480 - 1100	700 - 1500	1260 - 2500	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	4	4 - 6	6-8	6-10	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	
Maximum System Operating Pressure		mPa	4.15	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£473	£473	£473	£473	
OUTDOOR RETAIL PRICE			£1,145	£1,869	£2,330	£2,564	
SYSTEM RETAIL PRICE			£1,618	£2,342	£2,803	£3,037	



RBC-AHU1 Air Handling Unit Applications Digital Inverter - R410A

CODE			140	200	250	
Outdoor Unit			RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Cooling Range (Min. - Max.)			kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
Heating Range (Min. - Max.)			kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
Ambient Operating Range Cooling/Heating			°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Fan(s)	Motor Power	W	100 + 100	200 + 200	200 + 200	
	Standard Air Flow	l/s	1717	2550	3033	
	Standard Air Flow	m³/min	103	153	182	
	Standard Air Flow	m³/h	6180	9180	10920	
Sound	Pressure Level C/H	dB(A)	51/53	58/60	61/63	
	Power Level C/H	dB(A)	68/70	76/76	78/80	
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)		Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube		Finned tube	
	Compressor Type		Hermetic Twin Rotary		Hermetic Twin Rotary	
	Compressor Power	kW	3.8	5.6	5.6	
	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370	
	Total Weight	kg	99	142	142	
	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	
Refrigerant	Gas Type		R410A	R410A	R410A	
	Base Charge/Chargeless To	kg/m	3.1/30	5.9/30	5.9/30	
	Additional Charge Main Liquid Side	g/m	40	80	80	
	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	
Pipe Connections	Min.-Max. Length	m	5-50	5-100	5-100	
	Height Difference Outdoor To AHU	m	±30	±30	±30	
	Gas Side	inch	5/8	1-1/8*	1-1/8*	
	Liquid Side	inch	3/8	1/2	1/2	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	
	Maximum Run Current	A	21.70	10.78	15.06	
	Suggested Fused Supply	A	32	16	20	
Control Panel			RBC-	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	
	Wired controller ON/OFF Lock	V	0	0	0	
	Suggested Fused Supply	A	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	16.0	22.4	27.0	
	Heating	kW	16.0	25.0	31.5	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 3000	2880 - 4320	3360 - 5040	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	8 - 12	10 - 12	10 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£473	£473	£473	
OUTDOOR RETAIL PRICE			£2,649	£4,552	£4,558	
SYSTEM RETAIL PRICE			£3,122	£5,025	£5,031	

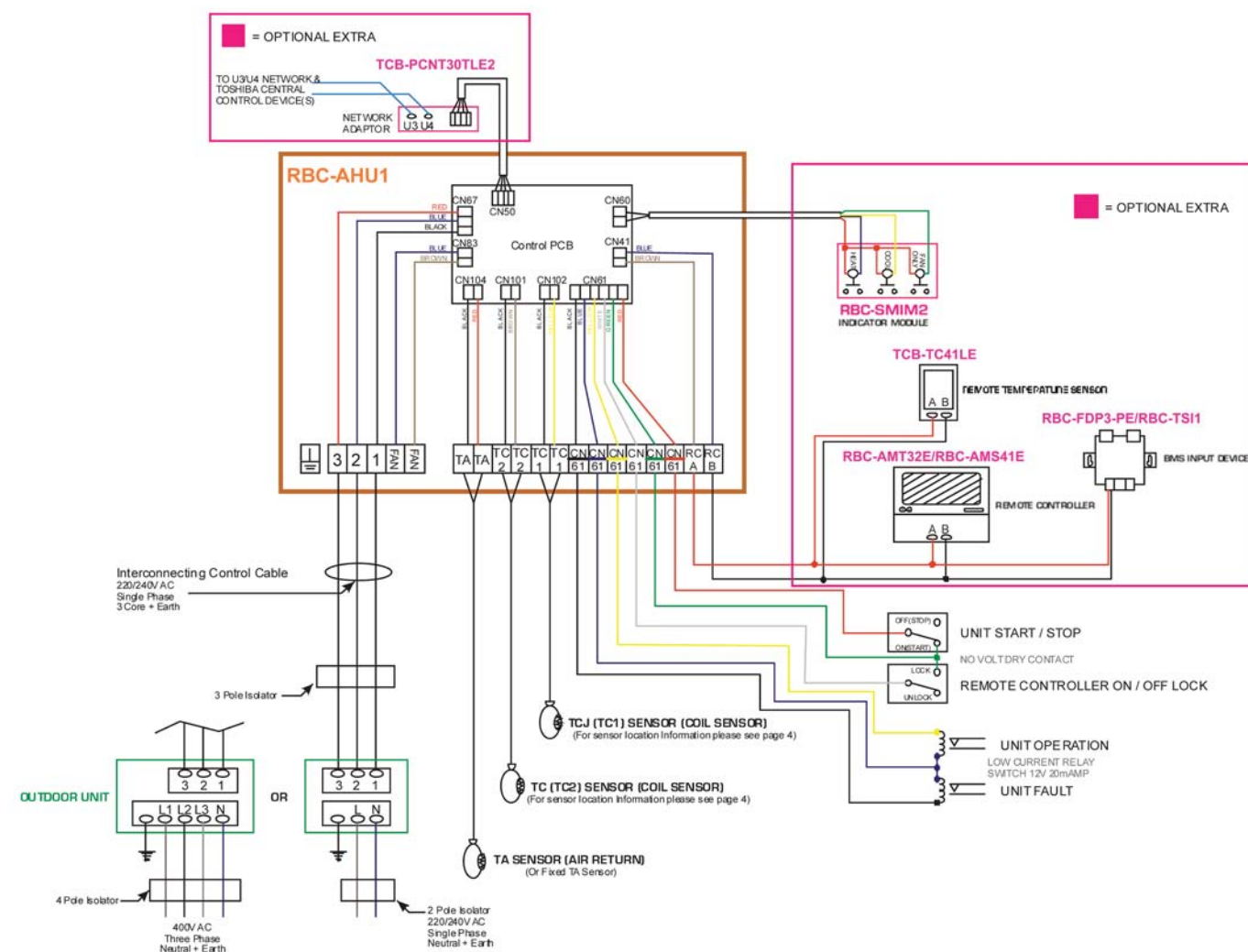
Note: * 28.6 mm to 19.1 mm (1-1/8" - 3/4") reducer is required to connect to condensing unit.



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R410A

CODE			100	125	140		
Outdoor Unit			RAV-	SP1104AT8-E1	SP1404AT8-E1	SP1604AT8-E1	
Cooling Range (Min. - Max.)			kW	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0	
Heating Range (Min. - Max.)			kW	2.4 - 15.6	2.4 - 18.0	2.4 - 19.0	
Ambient Operating Range Cooling/Heating			°C	46 to -15/15 to -20	46 to -15/15 to -20	46 to -15/15 to -20	
Fan(s)	Motor Power	W	100 + 100		100 + 100		
	Standard Air Flow	l/s	1683		1717		
	Standard Air Flow	m³/min	101		103		
	Standard Air Flow	m³/h	6060		6180		
Sound	Pressure Level C/H	dB(A)	49/50		51/52		
	Power Level C/H	dB(A)	66/67		68/69		
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)		Silky Shade (Muncel 1Y 8.5/0.5)		
	Heat Exchanger		Finned tube		Finned tube		
	Compressor Type		Hermetic Twin Rotary		Hermetic Twin Rotary		
	Compressor Power	kW	3.75		3.75		
	Height x Width x Depth		mm	1340 x 900 x 320		1340 x 900 x 320	
	Total Weight		kg	95		95	
	Refrigerant	Control		Pulse motor valve		Pulse motor valve	
Gas Type		R410A		R410A			
Base Charge/Chargeless To		kg/m	3.1/30		3.1/30		
Additional Charge Main Liquid Side		g/m	40		40		
Replacement Technology		Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12		
Pipe Connections	Min.-Max. Length		m	3-75		3-75	
	Height Difference Outdoor To AHU		m	±30		±30	
	Gas Side		inch	5/8		5/8	
	Liquid Side		inch	3/8		3/8	
	Drain Port Connector Hose Inner Diameter		mm	16		16	
Electrical	Power Supply	V/ph/Hz	380-415/3/50		380-415/3/50		
	Maximum Run Current	A	3.72		5.42		
	Suggested Fused Supply	A	10		16		
Control Panel			RBC-	AHU1	AHU1	AHU1	
Unit	Height x Width x Depth	mm	300 x 300 x 150		300 x 300 x 150		
	Weight	kg	10		10		
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50		
	Common Alarm Output		12 V DC 20 mA		12 V DC 20 mA		
	Run Indication Output		12 V DC 20 mA		12 V DC 20 mA		
	Remote START/STOP	V	0		0		
	Wired controller ON/OFF Lock		V	0		0	
	Suggested Fused Supply	A	6		6		
AHU DX Coil Design (Third Party Supply)			AHU DX Coil		AHU DX Coil		
Capacity	Cooling	kW	12.0		14.0		
	Heating	kW	13.0		16.5		
Design	Evaporating Temperature Range	°C	4 - 7		4 - 7		
	Suction Superheat (Target)	K	5.00		5.00		
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2500		1260 - 2750		
	Coil Pipe Diameter	mm - "	9.52 - 3/8		9.52 - 3/8		
	Paths	No.	6-10		8-12		
	DX Coil Burst Pressure (Greater Than)	mPa	12.45		12.45		
Maximum System Operating Pressure			mPa	4.15		4.15	
RBC-AHU1 CONTROL PANEL			£473		£473		
OUTDOOR RETAIL PRICE			£2,744		£2,853		
SYSTEM RETAIL PRICE			£3,217		£3,489		

Wiring Diagram for RBC-AHU1





VRF Air Handling Unit Applications Single-Circuit DX Coils

CODE			56	71	80	112
Model Name Heat Pump		MCY-	-	-	-	MHP0404HS-E
System Capacity		hp	2	2.5	3	4
Control Panel		MM-	DXC010	DXC010	DXC010	DXC010
Type			HEADER	HEADER	HEADER	HEADER
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0
	Fan Interlock Input	V	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0
	Suggested Fused Supply		A	6	6	6
DX Coil Valve Kit Header		MM-	DXV080	DXV080	DXV080	DXV140
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	5.6	7.1	8.0	11.2
	Heating Capacity	kW	6.3	8.0	9.0	12.5
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5
	Condensing Temperature	°C	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow
	Air Volume Min. - Max.	l/s	200 - 300	300 - 433	300 - 433	350 - 533
	Air Volume Min. - Max.	m³/min	12 - 18	18 - 26	18 - 26	21 - 32
	Air Volume Min. - Max.	m³/hr	720 - 1080	1060 - 1580	1060 - 1580	1280 - 1920
	Coil Volume	cm³	850 - 1150	1063 - 1438	1275 - 1725	1700 - 2300
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	4 - 6	6 - 8	6 - 8	6 - 10
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
Maximum System Operating Pressure		mPa	4.15	4.15	4.15	4.15
OUTDOOR UNIT(S)			-	-	-	£3,745
DXC010 CONTROL PANEL			£598	£598	£598	£598
DX COIL VALVE KITS			£347	£347	£347	£347
CONTROL PANEL & VALVES RETAIL PRICE			£945	£945	£945	£4,690

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-TSI1	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£313
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



VRF Air Handling Unit Applications Single-Circuit DX Coils (continued)

CODE			140	160	224	280
SMMSe 2-Pipe VRF Outdoor Model			MHP0504HS-E	MHP0604HS-E	MAP0806HT8P-E	MAP1006HT8P-E
System Capacity			5	6	8	10
Control Panel			DXC010	DXC010	DXC010	DXC010
Type			HEADER	HEADER	HEADER	HEADER
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0
	Fan Interlock Input	V	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6
DX Coil Valve Kit Header			MM- DXV140	DXV140	DXV280	DXV280
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	14.0	16.0	22.4	28.0
	Heating Capacity	kW	16.0	18.0	25.0	31.5
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5
	Condensing Temperature	°C	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow
	Air Volume Min. - Max.	l/s	467 - 700	517 - 1033	800 - 1200	933 - 1400
	Air Volume Min. - Max.	m³/min	28 - 42	31 - 62	48 - 72	56 - 84
	Air Volume Min. - Max.	m³/hr	1680 - 2520	1850 - 3740	2880 - 4320	3360 - 5040
	Coil Volume	cm³	2125 - 2875	2550 - 3450	3400 - 4600	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	8 - 12	10 - 12	10 - 12
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
Maximum System Operating Pressure			mPa	4.15	4.15	4.15
OUTDOOR UNIT(S)			£4,249	£4,576	£6,303	£6,903
DXC010 CONTROL PANEL			£598	£598	£598	£598
DX COIL VALVE KITS			£347	£347	£347	£347
CONTROL PANEL & VALVES RETAIL PRICE			£5,194	£5,521	£7,248	£7,848

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-TS11	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£313
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£69



VRF Air Handling Unit Applications Multi-Circuit DX Coils

CODE			320	384	448	504	560
Combination			MMY-				
SMMSe 2-Pipe VRF Outdoor Model			MMY-	MAP1206HT8P-E	MAP1406HT8P-E	MAP1606HT8P-E	MAP1806HT8P-E
System Capacity			hp	12	14	16	18
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8	8
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0	0
	Fan Interlock Input	V	0	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6	6
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012
	CIRCUIT 3	MM-	-	-	-	-	-
	CIRCUIT 4	MM-	-	-	-	-	-
	CIRCUIT 5	MM-	-	-	-	-	-
	CIRCUIT 6	MM-	-	-	-	-	-
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	7.6	7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6	6	6	6	6
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV140	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 2	MM-	DXV140	DXV140	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 3	MM-	-	-	-	-	-
	FOLLOWER CIRCUIT 4	MM-	-	-	-	-	-
	FOLLOWER CIRCUIT 5	MM-	-	-	-	-	-
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	32.0	38.4	44.8	50.4	56.0
	Heating Capacity	kW	36.0	43.0	50.0	56.5	63.0
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5	5
	Condensing Temperature	°C	52	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow
	Coil Circuits		2	2	2	2	2
	Air Volume Min. - Max.	l/s	1028 - 2078	1314 - 2239	1600 - 2400	1733 - 2600	1867 - 2800
	Air Volume Min. - Max.	m³/min	62 - 125	79 - 134	96 - 144	104 - 156	112 - 168
	Air Volume Min. - Max.	m³/hr	3700 - 7480	4730 - 8060	5760 - 8640	6240 - 9360	6720 - 10080
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15
Circuit 1	Coil Volume	cm³	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 2	Coil Volume	cm³	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 3	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 4	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 5	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 6	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			£7,667	£9,589	£9,984	£10,983	£11,752
DXC010 HEADER CONTROL PANEL			£598	£598	£598	£598	£598
DXC012 FOLLOWER PANEL			£451	£451	£451	£451	£451
DX COIL VALVE KITS			£694	£694	£694	£694	£694
VRF AHU PACKAGE (EXCLUDING DX COIL)			£9,410	£11,332	£11,727	£12,726	£13,495

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			608	672	728	784	840
Combination			MMY-	AP2416HT8P-E	AP2616HT8P-E	AP2816HT8P-E	AP3016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model			MMY-	MAP2206HT8P-E	MAP1206HT8P-E MAP1206HT8P-E	MAP1406HT8P-E MAP1206HT8P-E	MAP1606HT8P-E MAP1206HT8P-E
System Capacity			hp	12	24	26	28
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0	0
	Fan Interlock Input	V	0	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6	6
FOLLOWER PANEL(s)			MM-	DXC012	DXC012	DXC012	DXC012
CIRCUIT 2			MM-	DXC012	DXC012	DXC012	DXC012
CIRCUIT 3			MM-	-	-	-	-
CIRCUIT 4			MM-	-	-	-	-
CIRCUIT 5			MM-	-	-	-	-
CIRCUIT 6			MM-	-	-	-	-
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	7.6	7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6 (x 2)	6 (x 2)	6 (x 2)	6 (x 2)	6 (x 2)
DX COIL VALVE KIT			MM-	DXV280	DXV280	DXV280	DXV280
HEADER CIRCUIT 1			MM-	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 2			MM-	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 3			MM-	DXV140	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 4			MM-	-	-	-	-
FOLLOWER CIRCUIT 5			MM-	-	-	-	-
FOLLOWER CIRCUIT 6			MM-	-	-	-	-
AHU DX Coil Design (Third Party Supply)				AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	60.8	67.2	72.8	78.4	84.0
	Heating Capacity	kW	68.0	75.0	81.5	88.0	94.5
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5	5
	Condensing Temperature	°C	52	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow
	Coil Circuits		3	3	3	3	3
	Air Volume Min. - Max.	l/s	2114 - 3439	2400 - 3600	2533 - 3800	2667 - 4000	2800 - 4200
	Air Volume Min. - Max.	m³/min	127 - 206	144 - 216	152 - 228	160 - 240	168 - 252
	Air Volume Min. - Max.	m³/hr	7610 - 12380	8640 - 12960	9120 - 13680	9600 - 14400	10080 - 15120
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45
Maximum System Operating Pressure			4.15	4.15	4.15	4.15	4.15
Circuit 1	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 2	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 3	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 4	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 5	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 6	Coil Volume	cm³	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			£12,574	£15,334	£17,256	£17,651	£19,573
DXC010 HEADER CONTROL PANEL			£598	£598	£598	£598	£598
DXC012 FOLLOWER PANEL			£902	£902	£902	£902	£902
DX COIL VALVE KITS			£1,041	£1,041	£1,041	£1,041	£1,041
VRF AHU PACKAGE (EXCLUDING DX COIL)			£15,115	£17,875	£19,797	£20,192	£22,114

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			896	952	1008	1064	1120	
Combination			MMY-	AP3216HT8P-E	AP3416HT8P-E	AP3616HT8P-E	AP3816HT8P-E	AP4016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model			MMY-	MAP1606HT8P-E MAP1606HT8P-E	MAP1806HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-E
System Capacity			hp	32	34	36	38	40
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150		400 x 300 x 150	
	Weight	kg	8		8		8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50		220-240/1/50	
	Wired Controller		RBC-AMT32E		RBC-AMT32E		RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A		250 V AC 8 A		250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A		250 V AC 8 A		250 V AC 8 A	
	Safety Interlock Input	V	0		0		0	
	Fan Interlock Input	V	0		0		0	
	Remote ON/OFF Lock Input	V	0		0		0	
	Suggested Fused Supply	A	6		6		6	
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 3	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 4	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 5	MM-	-	-	-	-	-	
	CIRCUIT 6	MM-	-	-	-	-	-	
	Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150		400 x 300 x 150
Electrical	Weight	kg	7.6		7.6		7.6	
	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50		220-240/1/50	
	Suggested Fused Supply	A	6 (x 3)		6 (x 3)		6 (x 3)	
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 3	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 4	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 5	MM-	-	-	-	-	-	
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	89.6	95.2	100.8	106.4	112.0	
	Heating Capacity	kW	100.0	106.5	113.0	119.5	126.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		4	4	4	4	4	
	Air Volume Min. - Max.	l/s	3200 - 4800	3333 - 5000	3467 - 5200	3600 - 5400	3733 - 5600	
	Air Volume Min. - Max.	m³/min	192 - 288	200 - 300	208 - 312	216 - 324	224 - 336	
	Air Volume Min. - Max.	m³/hr	11520 - 17280	12000 - 18000	12480 - 18720	12960 - 19440	13440 - 20160	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
Circuit 1	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 2	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 3	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 4	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 5	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
Circuit 6	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
OUTDOOR UNIT(s)			£19,968	£20,967	£21,736	£22,558	£23,504	
DXC010 HEADER CONTROL PANEL			£598	£598	£598	£598	£598	
DXC012 FOLLOWER PANEL			£1,353	£1,353	£1,353	£1,353	£1,353	
DX COIL VALVE KITS			£1,388	£1,388	£1,388	£1,388	£1,388	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£23,307	£24,306	£25,075	£25,897	£26,843	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			1176	1232	1288	1344	1404	
Combination			MMY-	AP4216HT8P-E	AP4416HT8P-E	AP4616HT8P-E	AP4816HT8P-E	AP5016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model			MMY-	MAP2206HT8P-E MAP2006HT8P-E	MAP2206HT8P-E MAP2206HT8P-E	MAP1606HT8P-E MAP1606HT8P-E MAP1406HT8P-E	MAP1606HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP1806HT8P-E MAP1606HT8P-E MAP1606HT8P-E
System Capacity			hp	42	44	46	48	50
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	8	8	8	8	8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Safety Interlock Input	V	0	0	0	0	0	
	Fan Interlock Input	V	0	0	0	0	0	
	Remote ON/OFF Lock Input	V	0	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	6	
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 3	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 4	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 5	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 6	MM-	-	-	-	-	-	
	Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
Electrical	Weight	kg	7.6	7.6	7.6	7.6	7.6	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
Suggested Fused Supply			A	6 (x 4)	6 (x 4)	6 (x 4)	6 (x 4)	
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 3	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 4	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 5	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	117.6	123.2	128.8	134.4	140.4	
	Heating Capacity	kW	131.5	138.0	144.5	151.0	156.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		5	5	5	5	5	
	Air Volume Min. - Max.	l/s	4133 - 6200	4267 - 6400	4400 - 6600	4533 - 6800	4667 - 7000	
	Air Volume Min. - Max.	m³/min	248 - 372	256 - 384	264 - 396	272 - 408	280 - 420	
	Air Volume Min. - Max.	m³/hr	14880 - 22320	15360 - 23040	15840 - 23760	16320 - 24480	16800 - 25200	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
Circuit 1	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 2	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 3	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 4	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 5	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 6	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
OUTDOOR UNIT(s)			£24,326	£25,148	£29,557	£29,952	£30,951	
DXC010 HEADER CONTROL PANEL			£598	£598	£598	£598	£598	
DXC012 FOLLOWER PANEL			£1,804	£1,804	£1,804	£1,804	£1,804	
DX COIL VALVE KITS			£1,735	£1,735	£1,735	£1,735	£1,735	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£28,463	£29,285	£33,694	£34,089	£35,088	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			1460	1515	1570	1625	1680	
Combination			MMY-	AP5216HT8P-E	AP5416HT8P-E	AP5616HT8P-E	AP5816HT8P-E	AP6016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model			MMY-	MAP2006HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP2006HT8P-E MAP1606HT8P-E	
System Capacity			hp	52	54	56	58	60
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8		8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0		0	0	0	0
	Fan Interlock Input	V	0		0	0	0	0
	Remote ON/OFF Lock Input	V	0		0	0	0	0
	Suggested Fused Supply	A	6		6	6	6	6
FOLLOWER PANEL(s)			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 3			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 4			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 5			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 6			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	7.6		7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6 (x 5)		6 (x 5)	6 (x 5)	6 (x 5)	6 (x 5)
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 3	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 4	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 5	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 6	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	146.0	151.5	157.0	162.5	168.0	
	Heating Capacity	kW	163.0	164.0	176.0	177.0	178.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		6	6	6	6	6	
	Air Volume Min. - Max.	l/s	5067 - 7600	5200 - 7800	4800 - 8033	5467 - 8200	5600 - 8400	
	Air Volume Min. - Max.	m³/min	304 - 456	312 - 468	288 - 482	328 - 492	336 - 504	
	Air Volume Min. - Max.	m³/hr	18240 - 27360	18720 - 28080	17280 - 28920	19680 - 29520	20160 - 30240	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Circuit 1	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750
Coil Diameter		mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Paths		No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 2	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 3	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 4	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 5	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 6	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
OUTDOOR UNIT(s)			£31,720	£32,542	£33,488	£34,310	£35,132	
DXC010 HEADER CONTROL PANEL			£598	£598	£598	£598	£598	
DXC012 FOLLOWER PANEL			£2,255	£2,255	£2,255	£2,255	£2,255	
DX COIL VALVE KITS			£2,082	£2,082	£2,082	£2,082	£2,082	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£36,655	£37,477	£38,423	£39,245	£40,067	

Note: For accessories please refer to Single-Circuit DX Coils.



Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter

Outdoor Unit		hp	1.0	1.5	2.0	3.0	4.0
	Digital Inverter R32	RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E	GM1101ATP-E*
	Super Digital Inverter R32	RAV-	-	-	GP561ATP-E	GP801AT-E	GP1101AT-E
	Digital Inverter R410A	RAV-	-	-	-	-	-
	Super Digital Inverter R410A	RAV-	-	-	-	-	SP1104AT8-E1
Cooling Min.-Max.	Digital Inverter R32	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 7.4	3.0 - 11.2
	Super Digital Inverter R32	kW			1.2 - 5.6	1.9 - 8.0	3.1 - 12.0
	Digital Inverter R410A	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2
	Super Digital Inverter R410A	kW		1.5 - 4.0	1.2 - 5.6	1.9 - 8.0	2.6 - 12.0
Heating Min.-Max.	Digital Inverter R32	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0
	Super Digital Inverter R32	kW			0.9 - 8.1	1.3 - 11.3	2.6 - 13.0
	Digital Inverter R410A	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0
	Super Digital Inverter R410A	kW		1.5 - 5.0	0.9 - 7.4	1.3 - 10.6	2.4 - 13.0
Pipe Connections	Gas Pipe	mm - "	9.5 - 3/8	12.7 - 1/2	12.7 - 1/2	9.5 - 3/8	15.9 - 5/8
	Liquid Pipe	mm - "	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8
Control Panel		RBC-	DXC031	DXC031	DXC031	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V	AI 0-10 V	AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A	250 VAC 6 A	250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	2.5	3.6	5.6	8.0	11.2
	Heating	kW	3.4	4.0	6.3	9.0	13.0
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19	27/19	27/19	27/19
	Evaporating Temperature Range	°C	4-7	4-7	4-7	4-7	4-7
	Suction Superheat (Target)	K	5	5	5	5	5
Heating	Air on Coil Temperature	°C DB	20	20	20	20	20
	Condensing Temperature	°C	44	44	44	44	44
	Sub Cooling	K	5	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 720	480 - 880	480 - 1100	700 - 1500	1260 - 2500
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	4	4	4 - 6	6 - 8	6 - 10
	Recommended Liquid Capillary Distributor Orifice size	ID mm	2.3 - 2.5	2.8 - 3.0	3.2 - 3.5	3.5 - 4.0	4.5 - 5.0
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15
RBC-DXC031 CONTROL PANEL			£495	£495	£495	£495	£495
DIGITAL INVERTER R32			£590	£707	£863	£1,154	£1,589
SYSTEM RETAIL PRICE			£1,085	£1,202	£1,358	£1,649	£2,084
RBC-DXC031 CONTROL PANEL			-	-	£495	£495	£495
SUPER DIGITAL INVERTER R32			-	-	£1,145	£1,869	£2,330
SYSTEM RETAIL PRICE			-	-	£1,640	£2,364	£2,825
RBC-DXC031 CONTROL PANEL			-	-	-	-	-
DIGITAL INVERTER R410A			-	-	-	-	-
SYSTEM RETAIL PRICE			-	-	-	-	-
RBC-DXC031 CONTROL PANEL			-	-	-	-	£495
SUPER DIGITAL INVERTER R410A			-	-	-	-	£2,744
SYSTEM RETAIL PRICE			-	-	-	-	£3,239

* 380-415 V/3 ph/50 Hz version available



Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter (continued)

Outdoor Unit		hp	5.0	6.0	8.0	10.0
	Digital Inverter R32	RAV-	GM1401ATP-E*	-	-	-
	Super Digital Inverter R32	RAV-	GP1401AT-E	-	-	-
	Digital Inverter R410A	RAV-	-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
	Super Digital Inverter R410A	RAV-	SP1404AT8-E1	SP1604AT8-E1	-	-
Cooling Min.-Max.	Digital Inverter R32	kW	3.0 - 13.2			
	Super Digital Inverter R32	kW	3.1 - 14.0			
	Digital Inverter R410A	kW	3.0 - 13.2	2.6 - 16.0	9.8 - 22.4	9.8 - 27.0
	Super Digital Inverter R410A	kW	2.6 - 14.0	2.6 - 16.0		
Heating Min.-Max.	Digital Inverter R32	kW	3.0 - 16.0			
	Super Digital Inverter R32	kW	2.6 - 16.5			
	Digital Inverter R410A	kW	3.0 - 16.0	3.0 - 18.0	9.8 - 25.0	9.8 - 31.5
	Super Digital Inverter R410A	kW	2.4 - 16.5	2.4 - 19.0		
Pipe Connections	Gas Pipe	mm - "	15.9 - 5/8	15.9 - 5/8	28.6 - 1-1/8	28.6 - 1-1/8
	Liquid Pipe	mm - "	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2	12.7 - 1/2
Control Panel		RBC-	DXC031	DXC031	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V	AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A	250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	13.2	16.0	22.4	27.0
	Heating	kW	16.0	16.0	25.0	31.5
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19	27/19	27/19
	Evaporating Temperature Range	°C	4-7	4-7	4-7	4-7
	Suction Superheat (Target)	K	5	5	5	5
Heating	Air on Coil Temperature	°C DB	20	20	20	20
	Condensing Temperature	°C	44	44	44	44
	Sub Cooling	K	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2750	1260 - 3000	2880 - 4320	3360 - 5040
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	8 - 12	10 - 12	10 - 12
	Recommended Liquid Capillary Distributor Orifice size	ID mm	5.0 - 5.5	5.5 - 6.0	6.5 - 7.0	7.0 - 8.0
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15
RBC-DXC031 CONTROL PANEL			£495	-	-	-
DIGITAL INVERTER R32			£1,697	-	-	-
SYSTEM RETAIL PRICE			£2,192	-	-	-
RBC-DXC031 CONTROL PANEL			£495	-	-	-
SUPER DIGITAL INVERTER R32			£2,564	-	-	-
SYSTEM RETAIL PRICE			£3,059	-	-	-
RBC-DXC031 CONTROL PANEL			-	£495	£495	£495
DIGITAL INVERTER R410A			-	£2,649	£4,552	£4,558
SYSTEM RETAIL PRICE			-	£3,144	£5,047	£5,053
RBC-DXC031 CONTROL PANEL			£495	£495	-	-
SUPER DIGITAL INVERTER R410A			£2,853	£3,016	-	-
SYSTEM RETAIL PRICE			£3,348	£3,511	-	-

* 380-415 V/3 ph/50 Hz version available



Air Handling Unit 0-10 V BMS Control - SMMSe

Outdoor Unit		hp	8.0	10.0
	SMMSe	MMY-	MAP0806HT8P-E	MAP1006HT8P-E
Cooling	Min.-Max.	kW	11.2-22.4	14.0-28.0
Heating	Min.-Max.	kW	10.0-25.0	12.6-31.5
Pipe Connections	Gas Pipe	mm - "	19.1 - 3/4	22.2 - 7/8
	Liquid Pipe	mm - "	12.7 - 1/2	12.7 - 1/2
Control Panel		RBC-	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6
AHU DX Coil Design (Third Party Supply)		AHU DX Coil		AHU DX Coil
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.5
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19
	Evaporating Temperature Range	°C	6.5	6.5
	Suction Superheat (Target)	K	5	5
Heating	Air on Coil Temperature	°C DB	20	20
	Condensing Temperature	°C	47	47
	Sub Cooling	K	10	10
Heat Exchanger	Air Volume Min. - Max.	m³/h	2880 - 4320	3360 - 5040
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8
	Paths	No.	10 - 12	10 - 12
	Electronic Expansion Valve	MM-	DXV281	DXV281
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15
RBC-DXC031 CONTROL PANEL			£6,303	£6,903
MM-DXV281 CONTROL PANEL			£495	£495
SMMSe OUTDOOR UNIT			£182	£182
SYSTEM RETAIL PRICE			£6,980	£7,580

Air Curtains

The air curtain is used to separate one environment from another where either doors are left open, or when automatic doors frequently open due to high traffic levels. It creates a “curtain” of moving air that is blown over the opening of a doorway. The invisible “wall” will not allow air to flow through it.

FEATURES

These units present a solution which will enable quick installation with easy access for maintenance.

Integrated electrical box design

This solution gives the following advantages:

- Easy access for unit installation and maintenance
- No need to install separate DX interface
- ‘Plug and Play’ solution with the PCB fully configured at the factory
- The electrical supply for the air curtain is taken from the outdoor unit meaning there is no need for additional power supplies

Flare nut connections

The Toshiba air curtains are fitted with flare nut connections for ease of installation.

Selectable discharge grille position

The discharge grille can be adjusted to 5 positions (+15°, +10°, 0°, -10°, -15°) to regulate the air stream.

Defrost tray

A defrost tray is fitted to all Toshiba air curtains. During defrost cycles the fan motors continue to operate. Any moisture collected in the defrost tray evaporates when heating resumes.

Energy savings

Prevents draughts and reduces infiltration of unconditioned outdoor air into heated or air conditioned areas and at the same time stops the conditioned air inside the building from escaping.

Comfort

Improve comfort for customers and employees by reducing the admittance of insects, dust, smoke and odours which would otherwise enter through an open door.

Renewable heat pump energy

Compared to conventionally-heated air curtains the Toshiba Digital and Super Digital Inverters offer significant environmental benefits. Renewable heat pumps offer an alternative solution where future legislation may restrict the use of directly-heated air curtains.



Fre-sh-air and Enviroscreen VRF Air Curtain

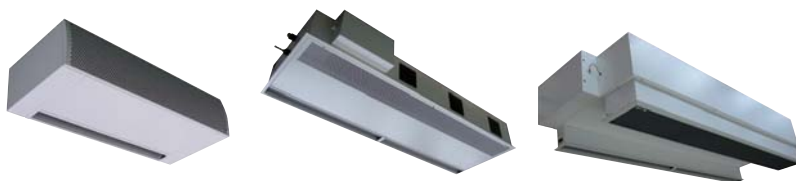
CODE		93	103
Air Curtain Model		Fre-sh-air Universal DX VRF - SM2000DH-FS	Enviroscreen - D-ES15-HP (Type D 1500 HP VRF)
Capacity Code	hp	5	4
VRF System Interface (factory-fitted)	HP	MMD-ODH1	MMD-ODH1
Heating	Capacity	9.30	10.30
	COP	3.00	3.11
Air Flow	Standard	611	630
	Standard	m ³ /h	2200
	Air Velocity Uniformity	%	91.4
Electrical	Fan Motor Power	kW	0.165 x 4
	Fan Motor Current (max.)	A	4.8
	Power Input Indoor	kW	0.66
Air Curtain Universal		RAV-SM2000DH-FS	ES - Type D 1500 HP
Door	Width	mm	2000
	Maximum Height	m	3.2
Sound	Pressure Level M	dB(A)	54
	Power Level M	dB(A)	69.3
Unit	Height x Width x Depth	mm	320 x 2340 x 550
	Weight	kg	90
Pipe Connection	Connections (gas - liquid)	inch	5/8 - 3/8
Electrical	Power Supply	V/ph/Hz	220-240/1/50
	Suggested Fused Supply	A	10
INDOOR RETAIL PRICE		£9,731	£6,283

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-SMIM2	Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£85
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£78
RBC-SMIM4	Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£87
RBC-FMC2	Flush Mount Collar Kit (for Fre-sh-air model)	Enables air curtain to be mounted in void space	£131

ECA eligible ✓

Note: Air Curtain model Fre-sh-air Universal DX VRF - SM2000DH-FS unit can be mounted in ceiling void using accessory RBC-FMC2

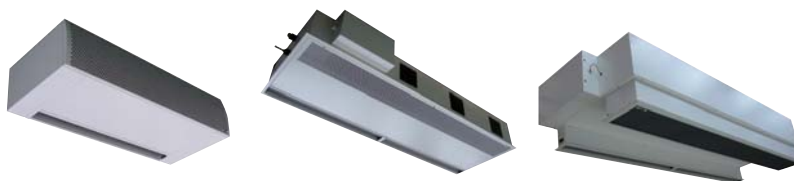


VRF Air Curtains

CODE			80	80	112	112	140	140	160	160	
Air Curtain Model			RAV-	CT101***M	CT101***L	CT151***M	CT151***L	CT201***M	CT201***L	CT251***M	CT251***L
Capacity Code		hp	3	3	4	4	5	5	6	6	
VRF System Interface (factory-fitted)			HP	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	
Heating	Capacity	kW	8.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0	
	COP		2.63	2.77	2.56	2.93	2.75	3.20	3.27	3.81	
Air Flow	Standard	l/s	444	614	667	819	889	1228	1111	1433	
	Standard	m³/h	1600	2210	2400	2950	3200	4420	4000	5160	
Door	Power Input Indoor	kW	0.35	0.53	0.53	0.70	0.70	1.05	0.88	1.23	
	Width	mm	1000	1000	1500	1500	2000	2000	2500	2500	
Sound	Maximum Height	m	3.0	3.2	3.0	3.2	3.0	3.2	3.0	3.2	
	Pressure Level M	dB(A)	54	55	55	56	56	57	57	58	
	Power Level M	dB(A)	69	70	70	71	71	72	72	73	
Free-Hanging Type			RAV-	CT101CH-M	CT101CH-L	CT151CH-M	CT151CH-L	CT201CH-M	CT201CH-L	CT251CH-M	CT251CH-L
Unit	Height x Width x Depth	mm	260 x 1210 x 490	260 x 1210 x 490	260 x 1710 x 490	260 x 1710 x 490	260 x 2210 x 490	260 x 2210 x 490	260 x 2710 x 490	260 x 2710 x 490	
	Weight	kg	48	51	77	80	101	107	132	138	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16	
Cassette Type			RAV-	CT101UH-M	CT101UH-L	CT151UH-M	CT151UH-L	CT201UH-M	CT201UH-L	CT251UH-M	CT251UH-L
Unit	Height x Width x Depth	mm	260 x 1050 x 780	260 x 1050 x 780	260 x 1550 x 780	260 x 1550 x 780	260 x 2050 x 780	260 x 2050 x 780	260 x 2550 x 780	260 x 2550 x 780	
	Weight	kg	40	43	95	98	99	105	120	126	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16	
Built-In Type			RAV-	CT101BH-M	CT101BH-L	CT151BH-M	CT151BH-L	CT201BH-M	CT201BH-L	CT251BH-M	CT251BH-L
Unit	Height x Width x Depth	mm	405-485 x 1105 x 720	405-485 x 1105 x 720	405-485 x 1605 x 720	405-485 x 1605 x 720	405-485 x 2105 x 720	405-485 x 2105 x 720	405-485 x 2605 x 720	405-485 x 2605 x 720	
	Weight	kg	71	74	105	108	129	135	170	176	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16	
INDOOR RETAIL PRICE			CT***CH-*	£5,548	£6,144	£6,780	£7,084	£7,641	£8,556	£8,564	£8,921
INDOOR RETAIL PRICE			CT***UH-*	£5,767	£6,489	£6,828	£7,267	£7,739	£8,615	£8,620	£9,446
INDOOR RETAIL PRICE			CT***BH-*	£6,323	£6,365	£7,429	£7,730	£8,020	£8,706	£8,963	£9,712

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-SMIM2	Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£85
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£78
RBC-SMIM4	Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£87

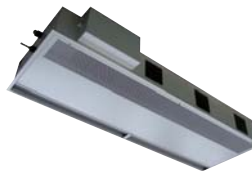


Air Curtains Digital Inverter

CODE			112	112	140	140	160	160	
Air Curtain Model			RAV-	CT151***M	CT15CT1***L	CT201***M	CT201***L	CT251***M	CT251***L
Outdoor Unit			RAV-	SM1104AT8P-E	SM1104AT8P-E	SM1404AT8P-E	SM1404AT8P-E	SM1603AT-E	SM1603AT-E
Capacity Code			hp	4	4	5	5	6	6
Heating	Capacity	kW	11.2	11.2	14.0	14.0	16.0	16.0	
	COP		3.15	3.21	3.03	3.09	2.86	2.91	
Air Flow	Standard	l/s	667	819	889	1228	1111	1433	
	Standard	m³/h	2400	2950	3200	4420	4000	5160	
Door	Power Input Indoor	kW	0.53	0.70	0.70	1.05	0.88	1.23	
	Width	mm	1500	1500	2000	2000	2500	2500	
Sound	Maximum Height	m	3.0	3.2	3.0	3.2	3.0	3.2	
	Pressure Level M	dB(A)	55	57	56	58	57	59	
	Power Level M	dB(A)	70	72	71	73	72	74	
Free-Hanging Type			RAV-	CT151CH-M	CT151CH-L	CT201CH-M	CT201CH-L	CT251CH-M	CT251CH-L
Unit	Height x Width x Depth	mm	260 x 1710 x 490	260 x 1710 x 490	260 x 2210 x 490	260 x 2210 x 490	260 x 2710 x 490	260 x 2710 x 490	
	Weight	kg	77	80	101	107	132	138	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
INDOOR RETAIL PRICE				£5,902	£6,206	£6,763	£7,678	£7,686	£8,043
Cassette Type			RAV-	CT151UH-M	CT151UH-L	CT201UH-M	CT201UH-L	CT251UH-M	CT251UH-L
Unit	Height x Width x Depth	mm	260 x 1550 x 780	260 x 1550 x 780	260 x 2050 x 780	260 x 2050 x 780	260 x 2550 x 780	260 x 2550 x 780	
	Weight	kg	95	98	99	105	120	126	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
INDOOR RETAIL PRICE				£5,950	£6,389	£6,861	£7,737	£7,742	£8,568
Built-In Type			RAV-	CT151BH-M	CT151BH-L	CT201BH-M	CT201BH-L	CT251BH-M	CT251BH-L
Unit	Height x Width x Depth	mm	405-485 x 1605 x 720	405-485 x 1605 x 720	405-485 x 2105 x 720	405-485 x 2105 x 720	405-485 x 2605 x 720	405-485 x 2605 x 720	
	Weight	kg	105	108	129	135	170	176	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
INDOOR RETAIL PRICE				£6,551	£6,852	£7,142	£7,828	£8,085	£8,834
Outdoor Unit			RAV-	SM1603AT-E1					
Heating Capacity Range (Min. - Max.)		kW	3.0 - 18.0						
Ambient Operating Range Cooling/Heating		°C	43 to -15/15 to -15						
Air Flow	Standard Air Flow	l/s	1717						
	Standard Air Flow	m³/h	6180						
Sound	Pressure Level C/H	dB(A)	51/53						
	Power Level C/H	dB(A)	68/70						
Unit	Height x Width x Depth	mm	1340 x 900 x 320						
	Weight	kg	99						
	Base Charge/Chargeless To	kg/m	3.1/30						
	Additional Charge Main Liquid Side	g/m	40						
Pipe Connections	Min.-Max. Length	m	5-50						
	Height Difference Outdoor To AHU	m	±30						
	Flare Connections (gas - liquid)	inch	5/8 - 3/8						
	Drain Port Connector Hose Inner Diameter	mm	16						
Electrical	Power Supply	V/ph/Hz	220-240/1/50						
	Maximum Run Current	A	21.70						
	Suggested Fused Supply	A	32						
OUTDOOR RETAIL PRICE				£2,649					
SYSTEM RETAIL PRICE			CT***CH-*	£8,077	£8,381	£8,938	£9,853	£10,335	£10,692
SYSTEM RETAIL PRICE			CT***UH-*	£8,125	£8,564	£9,036	£9,912	£10,391	£11,217
SYSTEM RETAIL PRICE			CT***BH-*	£8,726	£9,027	£9,317	£10,003	£10,734	£11,483

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-SMIM2	Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£85
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£78
RBC-SMIM4	Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£87



Air Curtains Super Digital Inverter

CODE			112	112	140	140	160	160	
Air Curtain Model			RAV-	CT151***M	CT151***L	CT201***M	CT201***L	CT251***M	CT251***L
Outdoor Unit			RAV-	SP1104AT8-E	SP1104AT8-E	SP1404AT8-E	SP1404AT8-E	SP1604AT8-E	
Capacity Code			hp	4	4	5	5	6	6
Heating	Capacity	kW	11.2	11.2	14.0	14.0	16.0	16.0	
	COP		3.39	3.45	3.20	3.26	2.92	2.97	
Air Flow	Standard	l/s	667	819	889	1228	1111	1433	
	Standard	m³/h	2400	2950	3200	4420	4000	5160	
Door	Power Input Indoor	kW	0.53	0.70	0.70	1.05	0.88	1.23	
	Width	mm	1500	1500	2000	2000	2500	2500	
Sound	Maximum Height	m	3.0	3.2	3.0	3.2	3.0	3.2	
	Pressure Level M	dB(A)	55	57	56	58	57	59	
Power Level M			dB(A)	70	72	71	73	72	74
Free-Hanging Type			RAV-	CT151CH-M	CT151CH-L	CT201CH-M	CT201CH-L	CT251CH-M	CT251CH-L
Unit	Height x Width x Depth	mm	260 x 1710 x 490	260 x 1710 x 490	260 x 2210 x 490	260 x 2210 x 490	260 x 2710 x 490	260 x 2710 x 490	
	Weight	kg	77	80	101	107	132	138	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
INDOOR RETAIL PRICE				£5,902	£6,206	£6,763	£7,678	£7,686	£8,043
Cassette Type			RAV-	CT151UH-M	CT151UH-L	CT201UH-M	CT201UH-L	CT251UH-M	CT251UH-L
Unit	Height x Width x Depth	mm	260 x 1550 x 780	260 x 1550 x 780	260 x 2050 x 780	260 x 2050 x 780	260 x 2550 x 780	260 x 2550 x 780	
	Weight	kg	95	98	99	105	120	126	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
INDOOR RETAIL PRICE				£5,950	£6,389	£6,861	£7,737	£7,742	£8,568
Built-In Type			RAV-	CT151BH-M	CT151BH-L	CT201BH-M	CT201BH-L	CT251BH-M	CT251BH-L
Unit	Height x Width x Depth	mm	405-485 x 1605 x 720	405-485 x 1605 x 720	405-485 x 2105 x 720	405-485 x 2105 x 720	405-485 x 2605 x 720	405-485 x 2605 x 720	
	Weight	kg	105	108	129	135	170	176	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
INDOOR RETAIL PRICE				£6,551	£6,852	£7,142	£7,828	£8,085	£8,834
Outdoor Unit			RAV-	SP1104AT8-E1	SP1104AT8-E1	SP1404AT8-E1	SP1404AT8-E1	SP1604AT8-E1	SP1604AT8-E1
Heating Capacity Range (Min. - Max.)			kW	2.4 - 15.6	2.4 - 15.6	2.4 - 18.0	2.4 - 18.0	2.4 - 19.0	2.4 - 19.0
Ambient Operating Range Cooling/Heating			°C	46 to -15/15 to -15	46 to -15/15 to -15	46 to -15/15 to -15	46 to -15/15 to -15	46 to -15/15 to -15	46 to -15/15 to -15
Air Flow	Standard Air Flow	l/s	1683	1683	1717	1717	1717	1717	
	Standard Air Flow	m³/h	6060	6060	6180	6180	6180	6180	
Sound	Pressure Level C/H	dB(A)	49/50	49/50	51/52	51/52	51/53	51/53	
	Power Level C/H	dB(A)	66/67	66/67	68/69	68/69	68/70	68/70	
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
	Weight	kg	95	95	95	95	95	95	
	Base Charge/Chargeless To	kg/m	3.1/30	3.1/30	3.1/30	3.1/30	3.1/30	3.1/30	
Additional Charge Main Liquid Side			g/m	40	40	40	40	40	
Pipe Connections	Min.-Max. Length	m	3-75	3-75	3-75	3-75	3-75	3-75	
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	±30	±30	
	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
Drain Port Connector Hose Inner Diameter			mm	16	16	16	16	16	
Electrical	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50		
	Maximum Run Current	A	3.72	3.72	5.42	5.42	6.66	6.66	
	Suggested Fused Supply	A	10	10	16	16	16	16	
OUTDOOR RETAIL PRICE				£2,744	£2,744	£2,853	£2,853	£3,016	£3,016
SYSTEM RETAIL PRICE			CT***CH-*	£8,646	£8,950	£9,616	£10,531	£10,702	£11,059
SYSTEM RETAIL PRICE			CT***UH-*	£8,694	£9,133	£9,714	£10,590	£10,758	£11,584
SYSTEM RETAIL PRICE			CT***BH-*	£9,295	£9,596	£9,995	£10,681	£11,101	£11,850

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£74
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
RBC-SMIM2	Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£85
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£78
RBC-SMIM4	Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£87

Air-to-Air Heat Exchangers

The heat exchanger operating principle is to use heat recovered from exhaust air to temper (pre-warm) the fresh air coming into the building, which helps to reduce the overall load and potentially the size of the air conditioning equipment required to maintain set point within the building. The air-to-air heat exchanger offers a highly-efficient way of providing fresh air to and extract air from a building and can help comply with building regulations.

A constant flow of fresh air is mandatory in an indoor environment where a large number of people are present in the same rooms for extended periods of times. Utilising an air-to-air heat exchanger can also reduce the load within a building, reducing overall power consumption.

The ventilation in air-tight insulated buildings may cause the unwanted loss of heat whenever the exhaust air is rejected outdoors. In these conditions, the stale air should be exhausted and effectively replaced by new fresh air to maintain the correct oxygen levels and remove most pollutants.

In buildings where different premises have different ventilation needs (kitchens, hospitals, laboratories, etc.) it is important to create the right balance of air flow in order to prevent diffusion of unwanted odours and humidity.

The use of an air-to-air heat exchanger, to complete both functions of stale air exhaust and fresh air intake, limits this heat dispersion and consequently reduces the load on the air conditioning equipment.

Fresh Air Process Patterns

Heating mode

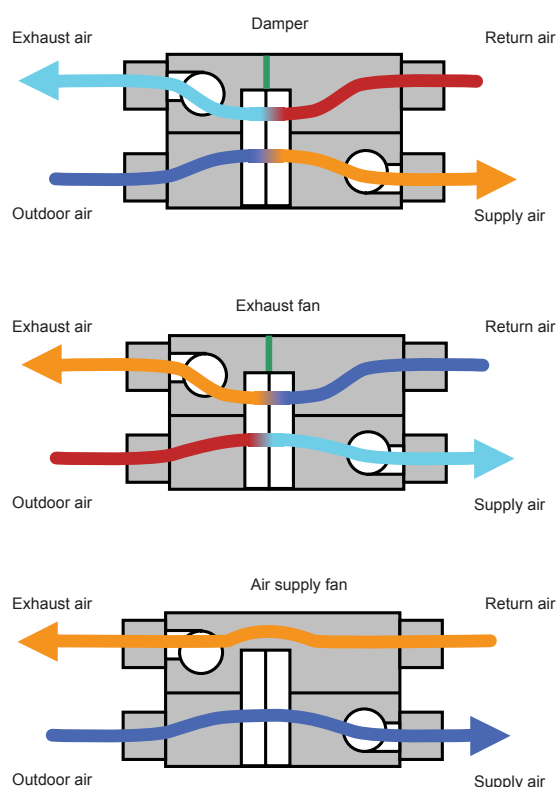
Outdoor cold air and saturated hot air pass through the exchanger element. The unit blows fresh clean air inside the ducts.

Cooling mode

Outdoor hot air and saturated cold air pass through the exchanger element. The unit blows warm clean air inside the ducts.

Free cooling mode

Outdoor fresh air passes through the filter element and enters without treatment.





Air-to-Air Heat Exchangers Standard Version

Air-to-Air Heat Exchanger		VN-	M150HE	M250HE	M350HE	M500HE
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	42 - 42 - 30	70 - 70 - 43	97 - 97 - 58	138 - 138 - 108
	Standard Extra High - High - Low	m³/h	150 - 150 - 110	250 - 250 - 155	350 - 350 - 210	500 - 500 - 390
Fan	External Static Pressure Extra High - High - Low	Pa	102 - 78 - 64	98 - 65 - 40	125 - 83 - 94	150 - 99 - 92
	Specific Power Extra High - High - Low	W/l/s	0.93 - 0.8 - 0.78	0.99 - 0.79 - 0.69	0.94 - 0.75 - 0.76	0.86 - 0.7 - 0.66
Efficiency	Temperature Exchange Extra High - High - Low	%	81.5 - 81.5 - 83.0	78.0 - 78.0 - 81.5	74.5 - 74.5 - 79.5	76.5 - 76.5 - 78.0
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	69.5 - 69.5 - 71.0	65.0 - 65.0 - 69.0	60.5 - 60.5 - 67.0	64.5 - 64.5 - 66.5
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	74.5 - 74.5 - 76.0	70.0 - 70.0 - 74.0	65.0 - 65.0 - 71.5	72.0 - 72.0 - 73.5
Sound	Pressure Extra High - High - Low	dB(A)	28.0 - 25.5 - 20.0	30.0 - 27.0 - 21.0	35.0 - 32.0 - 27.0	34.0 - 31.0 - 26.0
	Power Level Extra High - High - Low	dB(A)	43.0 - 40.5 - 35.0	45.0 - 42.0 - 36.0	50.0 - 47.0 - 42.0	49.0 - 46.0 - 41.0
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	82
	Height x Width x Depth	mm	900 x 900 x 290	900 x 900 x 290	900 x 900 x 290	1140 x 1140 x 350
	Weight	kg	36	36	38	53
	Duct Nominal Diameter Supply/Return	mm	100 x 2/100 x 2	150 x 2/150 x 2	150 x 2/150 x 2	200 x 2/200 x 2
	Power Input (Heat exchange mode) Extra High - High - Low	W	78 - 67 - 47	138 - 111 - 59	182 - 145 - 88	238 - 192 - 142
	Run Current Extra High - High - Low	A	0.33 - 0.28 - 0.20	0.61 - 0.49 - 0.26	0.76 - 0.62 - 0.38	1.00 - 0.81 - 0.60
Electrical	Maximum Run Current	A	0.33	0.61	0.76	1.00
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	3 (10)	3 (10)	6 (10)	6 (16)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity
			£1,112	£1,144	£1,315	£1,591

Air-To-Air Heat Exchanger		VN-	M650HE	M800HE	M1000HE1	M1500HE1	M2000HE1
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	180 - 180 - 145	222 - 222 - 195	278 - 278 - 194	417 - 417 - 333	555 - 555 - 388
	Standard Extra High - High - Low	m³/h	650 - 650 - 520	800 - 800 - 700	1000 - 1000 - 700	1500 - 1500 - 1200	2000 - 2000 - 1400
Fan	External Static Pressure Extra High - High - Low	Pa	107 - 82 - 96	158 - 132 - 112	105 - 80 - 70	140 - 110 - 80	105 - 80 - 70
	Specific Power Extra High - High - Low	W/l/s	0.81 - 0.72 - 0.66	0.86 - 0.8 - 0.77	1.4 - 1.2 - 1.0	1.5 - 1.4 - 1.0	1.4 - 1.2 - 1.0
Efficiency	Temperature Exchange Extra High - High - Low	%	75.0 - 75.0 - 76.5	76.5 - 76.5 - 77.5	73.5 - 73.5 - 77.0	76.5 - 76.5 - 79.0	73.5 - 73.5 - 77.5
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	61.5 - 61.5 - 64.0	64.0 - 64.0 - 65.5	60.5 - 60.5 - 64.5	64.0 - 64.0 - 67.0	60.5 - 60.5 - 65.5
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	69.5 - 69.5 - 71.5	71.0 - 71.0 - 71.5	68.5 - 68.5 - 71.5	71.0 - 71.0 - 73.5	68.5 - 68.5 - 72.0
Sound	Pressure Extra High - High - Low	dB(A)	36.0 - 34.0 - 31.0	38.5 - 37.0 - 33.5	38.0 - 37.0 - 33.0	41.0 - 40.0 - 36.0	41.5 - 40.5 - 36.5
	Power Level Extra High - High - Low	dB(A)	51.0 - 49.0 - 46.0	53.5 - 52.0 - 48.5	53.0 - 52.0 - 48.0	56.0 - 55.0 - 51.0	56.5 - 55.5 - 51.5
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	82	82
	Height x Width x Depth	mm	1140 x 1140 x 350	1189 x 1189 x 400	1189 x 1189 x 400	1189 x 1189 x 810	1189 x 1189 x 810
	Weight	kg	53	70	62	126	126
	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2	250 x 4/283 x 730 x 2	250 x 4/283 x 730 x 2
	Power Input (Heat exchange mode) Extra High - High - Low	W	290 - 258 - 191	383 - 353 - 300	390 - 340 - 190	640 - 570 - 320	780 - 680 - 380
	Run Current Extra High - High - Low	A	1.30 - 1.14 - 1.30	1.67 - 1.57 - 1.31	2.56	4.32	4.8
Electrical	Maximum Run Current	A	1.30	1.67	2.70	5.08	5.08
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	6 (16)	6 (16)	10 (16)	10 (16)	10 (20)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity
			£1,769	£2,071	£2,299	£4,364	£4,794

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£82
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£52
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M150/1000HE Heater Kit	£418
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000/2000HE1 Heater Kit	£269
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	£369
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger	£369
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger	£428
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE1 Heat Exchanger	£428
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136



VRF Air-to-Air Heat Exchangers + DX Coil

CODE			41	65	82	
Air-to-Air Heat Exchanger			MMD-	VN502HEX1E	VN802HEX1E	VN1002HEX1E
Combinations			SMMSe - SHRMe - MiNi SMMSe			
Nominal	Cooling Capacity	kW	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)	
	Heating Capacity	kW	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)	
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	
Air Flow	Standard Extra High - High - Low	l/s	139 - 139 - 122	222 - 222 - 178	264 - 264 - 228	
	Standard Extra High - High - Low	m³/h	500 - 500 - 440	800 - 800 - 640	950 - 950 - 820	
Fan	External Static Pressure Extra High - High - Low	l/s	167 - 92	267 - 133	317 - 178	
	Specific Power Extra High - High - Low	m³/h	600 - 330	960 - 480	1140 - 640	
	Temperature Exchange Extra High - High - Low	Pa	120 - 105 - 115	120 - 100 - 100	135 - 120 - 105	
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	W/l/s	1.08 - 1.01 - 0.96	1.14 - 1.05 - 0.94	1.04 - 1.03 - 1.06	
Efficiency	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5	
	Pressure Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.0	
	Power Level Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5	
Sound	Pressure Extra High/High/Low	dB(A)	37.5 - 36.5 - 34.5	41.0 - 40.0 - 38.0	43.0 - 42.0 - 40.0	
	Power Level Extra High/High/Low	dB(A)	52.5 - 51.5 - 49.5	56.0 - 55.0 - 53.0	58.0 - 57.0 - 55.0	
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	
	Height x Width x Depth	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739	
	Weight	kg	84	100	101	
	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2	
	Pipe Connection	Flare Connection (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
Drain Pipe Connection OD/ID		mm	VP30/25	VP30/25	VP30/25	
Electrical	Power Input (Heat exchange mode) Extra High - High - Low	W	300 - 280 - 235	505 - 465 - 335	550 - 545 - 485	
	Run Current Extra High - High - Low	A	1.30 - 1.21 - 1.01	2.25 - 2.07 - 1.46	2.46 - 2.43 - 2.16	
	Maximum Run Current	A	1.3	2.25	2.46	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply (with Heater Kit)	A	3 (10)	3 (10)	6 (10)	
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	
INDOOR RETAIL PRICE			£3.535	£5.152	£5.884	

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£82
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£52
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M150/1000HE Heater Kit	£418
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000/2000HE1 Heater Kit	£269
RBC-VNMC-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	£369
RBC-VNMC-PE	150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger	£369
RBC-VNMC-PE	200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger	£428
RBC-VNMC-PE	250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE1 Heat Exchanger	£428
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136



VRF Air-to-Air Heat Exchangers + DX Coil + Humidifier

CODE			41	65	82	
Air-to-Air Heat Exchanger		MMD-	VNK502HEX1E	VNK802HEX1E	VNK1002HEX1E	
Combinations			SMMSe - SHRMe - MiNi SMMSe			
Nominal	Cooling Capacity	kW	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)	
	Heating Capacity	kW	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)	
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	
Air Flow	Standard Extra High - High - Low	l/s	139 - 139 - 122	222 - 222 - 178	264 - 264 - 228	
	Standard Extra High - High - Low	m³/h	500 - 500 - 440	800 - 800 - 640	950 - 950 - 820	
Fan	Limit Upper - Lower	l/s	167 - 92	267 - 133	317 - 178	
	Limit Upper - Lower	m³/h	600 - 330	960 - 480	1140 - 640	
	External Static Pressure Extra High - High - Low	Pa	95 - 85 - 95	105 - 85 - 90	110 - 90 - 115	
	Specific Power Extra High - High - Low	W/l/s	1.10 - 1.03 - 0.98	1.19 - 1.09 - 0.98	1.09 - 1.07 - 1.14	
Efficiency	Temperature Exchange Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5	
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.5	
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5	
Sound	Pressure Extra High - High - Low	dB(A)	36.5 - 35.5 - 33.5	40.0 - 39.0 - 38.0	42.0 - 41.0 - 39.0	
	Power Level Extra High - High - Low	dB(A)	51.5 - 50.5 - 48.5	55.0 - 54.0 - 53.0	57.0 - 56.0 - 54.0	
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	
	Filtration Efficiency Grade (Collection Effect Weighing Method)		%	82	82	
	Height x Width x Depth		mm	430 x 1140 x 1690	430 x 1189 x 1739	
	Weight		kg	91	111	
	Humidifier		Permeable film humidifier	Permeable film humidifier	Permeable film humidifier	
	Humidifier Capacity		kg/h	3.0	5.0	
	Humidifier Feed Water Pressure		mPa	0.02 - 0.49	0.02 - 0.49	
	Duct Nominal Diameter Supply/Return		mm	200 x 2/200 x 2	250 x 2/250 x 2	
	Pipe Connection	Flare Connection (gas - liquid)		inch	3/8 - 1/4	1/2 - 1/4
		Water Supply Connection External Threaded			R1/2	R1/2
Drain Pipe Connection OD/ID		mm	VP30/25	VP30/25		
Electrical	Power Input (Heat Exchange Mode) Extra High - High - Low		W	305 - 285 - 240	530 - 485 - 350	
	Run Current Extra High - High - Low		A	1.33 - 1.24 - 1.03	2.37 - 2.14 - 1.54	
	Maximum Run Current		A	1.33	2.37	
	Power Supply		V/ph/Hz	220-240/1/50	220-240/1/50	
	Suggested Fused Supply (with Heater Kit)		A	6 (10)	6 (10)	
	Remote Controller Option			Wired 2-core non-polarity	Wired 2-core non-polarity	
INDOOR RETAIL PRICE			£3,696	£5,379	£6,149	

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£82
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	£59
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£70
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£113
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£52
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M150/1000HE Heater Kit	£418
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000/2000HE1 Heater Kit	£269
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	£369
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger	£369
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger	£428
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE1 Heat Exchanger	£428
TCB-PCUC2E	Indoor Control Interface	Application Control Kit	£136

Estia Air-to-Water Heat Pumps

Estia - Toshiba's advanced air-to-water heat pump solution - uses patented innovative technologies that take advantage of renewable energy of its surroundings to heat water for usage as residential space heating and as a hot water supply. Estia is suited for both new homes as well as renovations. Estia replaces or complements traditional boilers used for heated floors, space heating radiators as well as hot water supply for domestic use. An advanced heating and cooling system of the future, Estia reduces running costs while contributing to reduction of CO₂ emissions by using renewable energy.

FEATURES

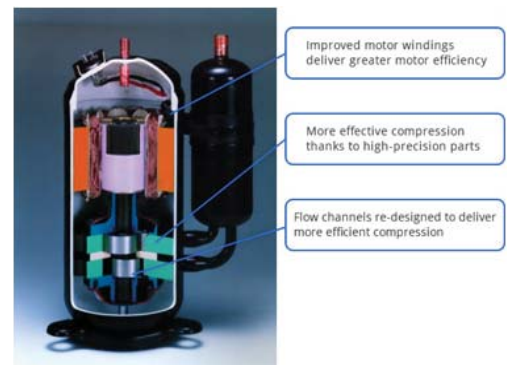
World-leading energy efficiency - COP of 4.88 (for 11 kW model)

With its best-in-class COP performance, the Estia air-to-water heat pump system delivers more heating power with less energy consumption. Estia uses high-quality components and material which contribute to the overall saving in energy consumption.

With the Toshiba advanced inverter, Estia air-to-water heat pump system only delivers the heating capacity required, thus consuming only the necessary electricity.

Toshiba advanced technology

Toshiba inverter uses the new, vector-controlled, Intelligent Power Drive Unit, which enables a wider range of frequencies and voltages. The Toshiba DC twin-rotary compressor has a large capacity range operation, with an effective system of power limitation, which reduces the power consumption. Performance is further improved by the high-speed converter circuit which calculates and optimises the power supply to the compressor.

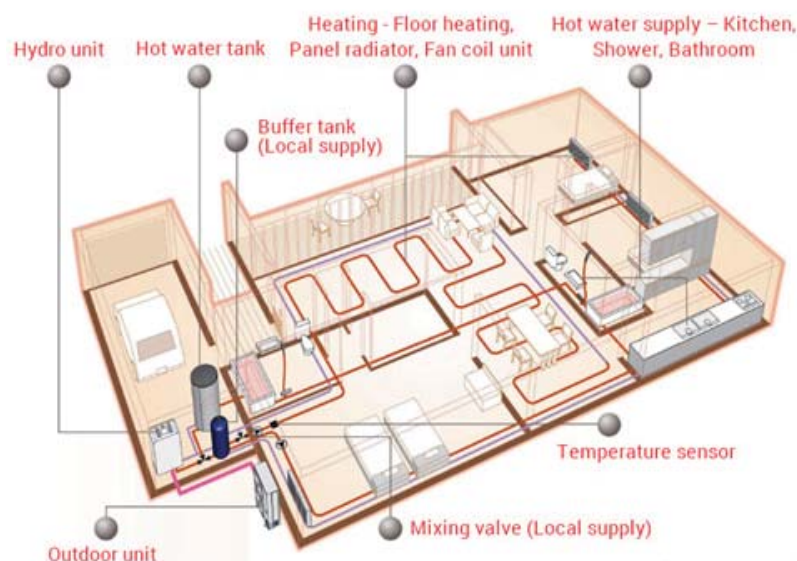


Environmentally conscious

The use of Toshiba's Estia heat pump contributes to the reduction of global CO₂ emissions in the atmosphere and limits the use of fossil fuels or other non-renewable energy primary sources. Whenever required for maintenance purposes, the entire R410A refrigerant (non-ozone depleting) can be completely sucked back to the outdoor unit through the powerful embedded Toshiba "pump down" operation.

One system, multiple solutions

Estia heat pump system can be used in combination with different types of emitters: existing heating low temperature radiators, floor heating or fan coil units.





Standard Type

Outdoor unit

Toshiba has long-term experience of successes in air-to-air heat pump production. The same reliable and award-winning technology is at the core of the new air-to-water heat pumps, above all the advanced inverter technology and the DC twin-rotary compressor. Estia heat pumps operate with the reliable and safe R410A refrigerant.



Hydro unit

The high-efficiency plate heat exchanger receives the optimum quantity of refrigerant to produce hot water at low or medium temperature (20-55°C) or cold water (10-20°C). A back-up heater (3, 6 or 9 kW options) further supports the operation for extreme conditions. The hydro unit integrates the advanced control of water temperature to allow an optimised distribution to emitters and to the domestic hot water tank.



Hot water tank

The Estia tank is a compact stainless steel insulated tank producing domestic hot water for sanitary use. The performance of the overall system is also maximised thanks to the integrated coaxial heat exchanger which uses hot water produced by the heat pump (whenever energy-efficient and possible). With the optimised control logic, whenever additional hot water is needed, an internal electric heater is activated. This solution reduces running cost and guarantees a constant level hot water temperature.



Three storage capacities (150, 210 or 300 litres) meet any household requirements.

Controller with weekly timer

This controls the distribution of hot water for up to 2 zones and to the hot water tank. The built-in software logic collects the signals from the sensors, regulates the water temperature and optimises the system's energy consumption. In addition, the anti-bacteria control routinely increases the temperature in the hot water tank. The easy-to-use remote control is conveniently attached to the hydro unit. With its large and detailed display it is possible to visualise and set all the major operating parameters and also program the weekly timer.



Powerful Type (8 kW-11 kW)

For cold climate areas and higher water temperature needs

- Leaving water temperature 60°C is achievable down to -5°C*
- Expanded operation outdoor temperature down to -25°C**
- Maintain the rated capacity down to -15°C

* The water temperature might not reach to 60°C depending on the contribution such as the low water flow.

** As it is possible that the system does not start at -25°C ambient, the main power supply should be turned on prior to start of operation.



Estia Air-to-Water Heat Pump Split System Overview

Nominal Cooling Capacity		kW	4.5	7.0	10.0	12.5	14.0	18.0		
Nominal Heating Capacity		kW	4.5	8.0	11.2	14.0	16.0	21.0		
		hp	2	3	4	5	6	8		
Estia Standard Air-to-Water Heat Pump	Outdoor Unit Full Spec Page 220		1 phase	£1,161 HWS-455H-E	£2,600 HWS-805H-E	£2,942 HWS-1105H-E	£3,413 HWS-1405H-E			
			3 phase			£3,401 HWS-1105H8-E	£3,652 HWS-1405H8-E	£4,114 HWS-1605H8-E		
	Indoor Hydro Unit		1 phase	£3,374 HWS-455XWHM3-E	£3,486 HWS-805XWHM3-E	£4,443 HWS-1405XWHM3-E	£4,443 HWS-1405XWHM3-E	£4,443 HWS-1405XWHM3-E		
			3 phase		£3,621 HWS-805XWHT6-E	£4,580 HWS-1405XWHT6-E	£4,580 HWS-1405XWHT6-E	£4,580 HWS-1405XWHT6-E		
			3 phase			£4,604 HWS-1405XWHT9-E	£4,604 HWS-1405XWHT9-E	£4,604 HWS-1405XWHT9-E		
	Domestic Hot Water Tank		1 phase	£1,083 HWS-1501CSHM3-UK	£1,083 HWS-1501CSHM3-UK	£1,083 HWS-1501CSHM3-UK	£1,083 HWS-1501CSHM3-UK	£1,083 HWS-1501CSHM3-UK		
				£1,263 HWS-2101CSHM3-UK	£1,263 HWS-2101CSHM3-UK	£1,263 HWS-2101CSHM3-UK	£1,263 HWS-2101CSHM3-UK	£1,263 HWS-2101CSHM3-UK		
				£1,484 HWS-3001CSHM3-UK	£1,484 HWS-3001CSHM3-UK	£1,484 HWS-3001CSHM3-UK	£1,484 HWS-3001CSHM3-UK	£1,484 HWS-3001CSHM3-UK		
	Estia Powerful Air-to-Water Heat Pump	Outdoor Unit Full Spec Page 222		1 phase		£3,416 HWS-P805HR-E	£3,466 HWS-P1105HR-E			
				Indoor Hydro Unit		1 phase		£3,486 HWS-P805XWHM3-E	£4,443 HWS-P1105XWHM3-E	
3 phase			£3,621 HWS-P805XWHT6-E			£4,580 HWS-P1105XWHT6-E				
3 phase			£3,745 HWS-P805XWHT9-E			£4,604 HWS-P1105XWHT9-E				
Domestic Hot Water Tank			1 phase	£1,083 HWS-1501CSHM3-UK	£1,083 HWS-1501CSHM3-UK					
				£1,263 HWS-2101CSHM3-UK	£1,263 HWS-2101CSHM3-UK					
				£1,484 HWS-3001CSHM3-UK	£1,484 HWS-3001CSHM3-UK					
Estia Monobloc Air-to-Water Heat Pump		Outdoor Unit Full Spec Page 224		3 phase				£9,555 RUA-CP1701H8-E	£10,823 RUA-CP2101H8-E	
				3 phase				£9,768 RUA-CP1701H8Z-E	£11,034 RUA-CP2101H8Z-E	



Estia Air-to-Water Heat Pump

CODE			45	80	110	140	110	140	160	
Outdoor Unit			HWS-	455H-E	805H-E	1105H-E	1405H-E	1105H8-E	1405H8-E	1605H8-E
Nominal ¹	Heating Capacity	kW	4.5	8.0	11.2	14.0	11.2	14.0	16.0	
	Seasonal Space Heating Energy Efficiency (ηs)	WT° 35°C	167%	161%	163%	161%	159%	157%	159%	
	Seasonal Space Heating Energy Efficiency (SCOP)	WT° 35°C	4.3	4.1	4.2	4.1	4.1	4.0	4.1	
Operating Range ⁵	Temperature Hydro/Outdoor	°C	5 to 32/-20 to 43	5 to 32/-20 to 43	5 to 32/-20 to 43	5 to 32/-20 to 43	5 to 32/-20 to 43	5 to 32/-20 to 43	5 to 32/-20 to 43	
	Humidity Hydro/Outdoor	%	15 to 85/15 to 100	15 to 85/15 to 100	15 to 85/15 to 100	15 to 85/15 to 100	15 to 85/15 to 100	15 to 85/15 to 100	15 to 85/15 to 100	
Heating Condition ¹	LWT=35°C DT=5°C Input Power/COP	kW	0.92/4.90	1.79/4.46	2.30/4.88	3.11/4.50	2.34/4.80	3.16/4.44	3.72/4.30	
	LWT=35°C DT=5°C Rated Water Flow	l/m	12.9	22.9	32.1	40.1	32.1	40.1	45.8	
Sound ²	Sound Pressure Hydro/Outdoor	dB(A)	27/50	27/49	27/51	29/53	27/51	29/53	29/54	
	Sound Power Hydro/Outdoor	dB(A)	41/65	41/64	43/66	43/68	43/66	43/68	43/69	
Unit	Height x Width x Depth	mm	630 x 800 x 300	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
	Weight	kg	42	63	92	92	92	92	92	
	Refrigerant Charge Amount/Chargeless to	kg/m	1.15/15	1.8/30	2.7/30	2.7/30	2.7/30	2.7/30	2.7/30	
Air Flow	Standard	l/s	667	833	1,717	1,717	1,717	1,717	1,717	
	Standard	m³/h	2400	3000	6180	6180	6180	6180	6180	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/4 - 1/2	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Drain Port Connection	mm	16	16	16	16	16	16	16	
	Min.-Max. Length	m	May-15	5-30	5-30	5-30	5-30	5-30	5-30	
	Maximum Height Difference	m	±10	±30	±30	±30	±30	±30	±30	
Electrical ¹	Hydro Unit Run Current Heating	A	0.44	0.44	0.66	0.66	0.66	0.66	0.66	
	Hydro Unit Power Input Heating	kW	0.06	0.06	0.09	0.09	0.09	0.09	0.09	
	Outdoor Unit Run Current Heating	A	4.56	7.97	10.08	13.74	3.73	5.01	5.94	
	Outdoor Unit Power Input Heating	kW	0.86	1.73	2.21	3.02	2.25	3.07	3.63	
	Total Run Current Heating	A	5.00	8.41	10.74	14.40	4.39	5.67	6.60	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	
	Wiring Connection Power To Outdoor Unit		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	
	Power Cable From Outdoor To Hydro Unit		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
	Suggested Fused Supply	A	10	20	20	25	10	16	16	
OUTDOOR RETAIL PRICE			£1,161	£2,600	£2,942	£3,413	£3,401	£3,652	£4,114	

DOMESTIC HOT WATER TANK		HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume	litres	150	210	300
	Maximum Temperature	°C	75	75	75
Operating Range	Standing Heat Loss	kWh/day	1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature of T&P Relief Valve	°C	90	90	90
	Opening Pressure of T&P Relief Valve	mPa - bar	1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material		Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	210 - 251	300 - 360
	Insulation		Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter	mm	1090 - 550	1474 - 550	2040 - 550
Electrical	Weight Net	kg	31	41	60
	Heater	kW	2.75	2.75	2.75
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	16	16	16
DOMESTIC HOT WATER TANK RETAIL PRICE			£1,083	£1,263	£1,484



Estia Air-to-Water Heat Pump (continued)

HYDRO UNIT		HWS-	455XWHM3-E	805XWHM3-E	805XWHT6-E	805XWHT9-E	1405XWHM3-E	1405XWHT6-E	1405XWHT9-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20~55	20~55	20~55	20~55	20~55	20~55	20~55
	Piping Maximum Length/Minimum Flow Rate	m/l/m	None/13+	None/13+	None/13+	None/13+	None/17.5+	None/17.5+	None/17.5+
	Piping Maximum Height Difference	m	±7	±7	±7	±7	±7	±7	±7
	Piping Maximum Working Pressure ⁴	kPa	300	300	300	300	300	300	300
	Heat Exchanger Volume	litres	0.67	0.67	0.67	0.67	1.18	1.18	1.18
	Heat Exchanger Minimum Flow Rate	l/m	13.0	13.0	13.0	13.0	17.5	17.5	17.5
Circulating Pump	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	125	125	125	125	190	190	190
	Flow Rate	l/m	12.9	22.9	22.9	22.9	32.1/40.1/45.8	32.1/40.1/45.8	32.1/40.1/45.8
	Power Input	W	48	48	48	48	87	87	87
	Delivery Head	m	6.3	6.3	6.3	6.3	8.8	8.8	8.8
	Expansion Vessel Volume	litres	12	12	12	12	12	12	12
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
Sound ²	Pressure Level	dB(A)	27	27	27	27	29	29	29
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4
	Refrigerant Piping (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Port Hose Inner Diameter	mm	16	16	16	16	16	16	16
Unit	Height x Width x Depth	mm	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
	Weight	kg	49	49	49	49	54	54	54
	Back Up Heater Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Back Up Heater Power/Maximum Current	A	3/13	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)
	Hot Water Cylinder Heater Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Hot Water Cylinder Heater Maximum Current	A	12.0	12.0	12.0	12.0	12.0	12.0	12.0
	Remote Controller Standard Model ³		HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E

HYDRO UNIT PRICE	£3,374	£3,486	£3,621	£3,745	£4,443	£4,580	£4,604
------------------	--------	--------	--------	--------	--------	--------	--------

SYSTEM RETAIL PRICE	HWS-455H-E	£4,535	-	-	-	-	-	-
SYSTEM RETAIL PRICE	HWS-805H-E	-	£6,086	£6,221	£6,345	-	-	-
SYSTEM RETAIL PRICE	HWS-1105H-E	-	-	-	-	£7,385	£7,522	£7,546
SYSTEM RETAIL PRICE	HWS-1405H-E	-	-	-	-	£7,856	£7,993	£8,017
SYSTEM RETAIL PRICE	HWS-1105H8-E	-	-	-	-	£7,844	£7,981	£8,005
SYSTEM RETAIL PRICE	HWS-1405H8-E	-	-	-	-	£8,095	£8,232	£8,256
SYSTEM RETAIL PRICE	HWS-1605H8-E	-	-	-	-	£8,557	£8,694	£8,718

Note: System retail price excludes domestic hot water tank.

Accessories

HWS-AMS54E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£115
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	£64
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	£90

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

¹ Heating performance measurement conditions: outside air temperature 7°C, water supply temperature 30°C, outlet temperature 35°C, refrigerant piping length 7.5 m (no height difference).

² The outdoor unit operating noise is measured at the point of 1 m away from the unit back surface centre and 1 m high from the ground. The hydro unit operating noise is measured at the point of 1 m away from the unit front surface centre. The value of the operating noise varies depending on room structure where the unit is installed.

³ The remote controller is shipped with the hydro unit. Use two 1.5 m wires to connect the hydro unit with the remote controller.

⁴ Check the water piping for leakage under the maximum operating pressure.

⁵ Do not leave the hydro unit at 5°C or below.



Estia Air-to-Water Heat Pump Powerful

CODE		80	110		
Outdoor Unit		HWS-	P805HR-E	P1105HR-E	
Nominal ¹	Heating Capacity	kW	8.0	11.2	
	Seasonal space heating energy efficiency (ηs)	WT° 35°C	157%	175%	
	Seasonal space heating energy efficiency (SCOP)	WT° 35°C	4.0	4.5	
Operating Range ⁵	Temperature Hydro/Outdoor	°C	5 to 32/-25 to 43	5 to 32/-25 to 43	
	Humidity Hydro/Outdoor	%	15 to 85/15 to 100	15 to 85/15 to 100	
Heating Condition ¹	LWT=35°C DT=5°C Input Power/COP	kW	1.68/4.76	2.30/4.88	
	LWT=35°C DT=5°C Rated Water Flow	l/m	22.9	32.1	
Sound ²	Sound Pressure Hydro/Outdoor	dB(A)	27/51	29/51	
	Sound Power Hydro/Outdoor	dB(A)	41/66	43/66	
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	
	Weight	kg	92	92	
	Refrigerant Charge Amount/Chargeless to	kg/m	2.7/30	2.7/30	
Air Flow	Standard	l/s	1,717	1,717	
	Standard	m³/h	6180	6180	
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	
	Drain Port Connection	mm	16	16	
	Min.-Max. Length	m	5-30	5-30	
	Maximum Height Difference	m	±30	±30	
Electrical ¹	Hydro Unit Run Current Heating	A	0.44	0.66	
	Hydro Unit Power Input Heating	kW	0.06	0.09	
	Outdoor Unit Run Current Heating	A	7.57	10.33	
	Outdoor Unit Power Input Heating	kW	1.62	2.21	
	Total Run Current Heating	A	8.01	10.99	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	
	Wiring Connection Power To Outdoor Unit		2 core + earth	2 core + earth	
	Power Cable From Outdoor To Hydro Unit		3 core + earth	3 core + earth	
	Suggested Fused Supply	A	20	20	
	OUTDOOR RETAIL PRICE		£3,416	£3,466	
DOMESTIC HOT WATER TANK		HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume	litres	150	210	300
	Maximum Temperature	°C	75	75	75
Operating Range	Standing Heat Loss	kWh/day	1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature Of T&P Relief Valve	°C	90	90	90
	Opening Pressure Of T&P Relief Valve	mPa - bar	1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material		Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	210 - 251	300 - 360
	Insulation		Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter	mm	1090 - 550	1474 - 550	2040 - 550
Electrical	Weight Net	kg	31	41	60
	Heater	kW	2.75	2.75	2.75
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	16	16	16
DOMESTIC HOT WATER TANK RETAIL PRICE		£1,083	£1,263	£1,484	



Estia Air-to-Water Heat Pump Powerful (continued)

HYDRO UNIT		HWS-	P805XWHM3-E	P805XWHT6-E	P805XWHT9-E	P1105XWHM3-E	P1105XWHT6-E	P1105XWHT9-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60
	Piping Maximum Length/Minimum Flow Rate	m/l/m	None/13+	None/13+	None/13+	None/13+	None/13+	None/13+
	Piping Maximum Height Difference	m	±7	±7	±7	±7	±7	±7
	Piping Maximum Working Pressure ⁴	kPa	300	300	300	300	300	300
	Heat Exchanger Volume	litres	0.67	0.67	0.67	1.18	1.18	1.18
	Heat Exchanger Minimum Flow Rate	l/m	13	13	13	17.5	17.5	17.5
Circulating Pump	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	125	125	125	190	190	190
	Flow Rate	l/m	22.9	22.9	22.9	32.1	32.1	32.1
	Power Input	W	48	48	48	87	87	87
	Delivery Head	m	6.3	6.3	6.3	8.8	8.8	8.8
	Expansion Vessel Volume	litres	12	12	12	12	12	12
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
Sound ²	Pressure Level	dB(A)	27	27	27	29	29	29
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4
	Refrigerant Piping (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Port Hose Inner Diameter	mm	16	16	16	16	16	16
Unit	Height x Width x Depth	mm	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
	Weight	kg	49	49	49	52	52	52
	Back Up Heater Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Back Up Heater Power/Maximum Current	A	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)
	Hot Water Cylinder Heater Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Hot Water Cylinder Heater Maximum Current	A	12.0	12.0	12.0	12.0	12.0	12.0
	Remote Controller Standard Model ³		HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E
HYDRO UNIT PRICE			£3,486	£3,621	£3,745	£4,443	£4,580	£4,604
SYSTEM RETAIL PRICE			HWS-P805HR-E	£6,902	£7,037	£7,161	-	-
SYSTEM RETAIL PRICE			HWS-P1105HR-E	-	-	-	£7,909	£8,046
				-	-	-	£8,070	

Note: System retail price excludes domestic hot water tank.

Accessories

HWS-AMS54E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£115
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	£64
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	£90

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

¹ Heating performance measurement conditions: outside air temperature 7°C, water supply temperature 30°C, outlet temperature 35°C, refrigerant piping length 7.5 m (no height difference).

² The outdoor unit operating noise is measured at the point of 1 m away from the unit back surface centre and 1 m high from the ground. The hydro unit operating noise is measured at the point of 1 m away from the unit front surface centre. The value of the operating noise varies depending on room structure where the unit is installed.

³ The remote controller is shipped with the hydro unit. Use two 1.5 m wires to connect the hydro unit with the remote controller.

⁴ Check the water piping for leakage under the maximum operating pressure.

⁵ Do not leave the hydro unit at 5°C or below.



Estia Air-to-Water Heat Pump Monobloc

CODE			170	210
Outdoor Unit		RUA-	CP1701H8-E	CP2101H8-E
Nominal	Cooling Capacity	kW	14.9	18.6
	Heating Capacity	kW	17.1	21.1
	Seasonal space heating energy efficiency (ηs)	WT° 35°C	144%	140%
	Seasonal space heating energy efficiency (SCOP)	WT° 35°C	3.68	3.56
Operating Range	Temperature Outdoor Cooling/Heating	°C	0~46/-20~30	0~46/-20~30
	Temperature Storage	°C	-20~48	-20~48
Cooling Condition	LWT=7°C DT=5°C Input Power/EER	kW	5.0/3.0	6.0/3.1
	LWT=7°C DT=5°C Rated Water Flow	l/m	0.83	1.01
Heating Condition	LWT=35°C DT=5°C Input Power/COP	kW	4.2/4.1	5.2/4.1
	LWT=35°C DT=5°C Rated Water Flow	l/m	0.71	0.89
Sound	Sound Pressure Hydro/Outdoor	dB(A)	40	43
	Sound Power Hydro/Outdoor	dB(A)	71	74
Unit	Height x Width x Depth	mm	1579 x 1141 x 584	1579 x 1141 x 584
	Weight	kg	191	199
	Refrigerant Charge Amount	kg/m	8.0	8.0
Air Flow	Standard	l/s	2000	2400
	Standard	m³/h	7200	8640
Heat Exchanger Water	Type		Brazed plate	Brazed plate
	Operation Temp. Range Cooling Min. - Max.	°C	5 - 18	5 - 18
	Limits at Start-up Cooling Min. - Max.	°C	6 - 30	6 - 30
	Operation Temp. Range Heating Min. - Max.	°C	20 - 60	20 - 57
	Limits at Start-up Heating Min. - Max.	°C	10 - 45	10 - 45
	Heat Exchanger Volume	litres	1.52	1.90
	Expansion Vessel Volume	litres	8	8
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3
	Circulating Pump	Type		Centrifugal
Maximum Motor Input		W	310	310
Min./Max. Flow Rate		l/s	0.45/1.2	0.57/1.2
Min.Max. Pump Suction Pressure		kPa	40/300	40/300
Sound	Sound Pressure Level at 10 m	dB(A)	40	43
	Sound Power Level	dB(A)	71	74
Pipe Connection	Water Pipe Outlet/Inlet	inch	1/1-1/4	1/1-1/4
Electrical	Total Running Current	A	16.7	19.1
	Power Supply	V/ph/Hz	360-440/3/50	360-440/3/50
	Wiring Connection Power To Outdoor Unit		3 core + earth	3 core + earth
	Suggested Fused Supply	A	25	25
Remote Controller	Height x Width x Depth		88 x 90 x 16	88 x 90 x 16
	(option accessory)		RBP-AMT11E	RBP-AMT11E
MONOBLOC RETAIL PRICE (without coil protection)			£9,555	£10,823
MONOBLOC RETAIL PRICE (with coil protection)			£9,768	£11,034

Accessories

RBP-AMT11E	Wired remote controller	Additional wired remote controller	£301
RBP-RTMS1MNR-E	Header/Follower (up to 2 units) sensor	Enables header/follower operation for two units connected in parallel	£163
RBP-RTDH1MNR-E	Domestic hot water sensor	Required for DHW production	£232
RBP-RTAM1MNR-E	Additional outdoor ambient temperature sensor	Increases measurement accuracy of the outdoor air temperature	£179
BacNet	Communications Interface	Network communications	£237
Lontalk	Communications Interface	Network communications	£440

DOMESTIC HOT WATER TANK		HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume	litres	150	210	300
	Maximum Temperature	°C	75	75	75
Operating Range	Standing Heat Loss	kWh/day	1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature Of T&P Relief Valve	°C	90	90	90
	Opening Pressure Of T&P Relief Valve	mPa - bar	1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material		Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	210 - 251	300 - 360
	Insulation		Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter	mm	1090 - 550	1474 - 550	2040 - 550
Electrical	Weight Net	kg	31	41	60
	Heater	kW	2.75	2.75	2.75
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	16	16	16
DOMESTIC HOT WATER TANK RETAIL PRICE			£1,083	£1,263	£1,484

Controls

Toshiba offers different control solutions to meet end users' and designers' expectations. From local individual control and settings to computer-based TCC-Link network, all indoor units can be programmed and set to suit the operational needs. Remote control systems offer a wide range of features including schedule timers, diagnostic functions, power meter, input/output signals, to name a few.

Toshiba offers a number of local control products that can be used to control a single indoor unit, or group of up to 8 indoor units, from a position adjacent to that indoor unit or group.

It is possible to install these local controllers up to 500 m from the connected indoor unit which allows greater flexibility when designing the installation. This also provides the opportunity to install the local controller in an area removed from the connected indoor unit, for example, common use areas where the indoor unit operation should not be changed by local users but may need to be monitored by a site engineer from a Control Room.

There are two different types of Local Remote Controller currently available from Toshiba, these are:

- The Wired Remote Controller which is the standard local control device suitable for most applications, and
- The Wireless Remote Controller which consists of a universal handset that can be purchased with a choice of 4 different wireless receiver units that are specifically designed to suit different indoor unit model types.



CONTROLS

Local Network and Black Pear

The Local Network

There are three different methods that can be used to connect the Local Control Device to the indoor unit, or group of indoor units.

1-to-1 connection

This method is for the connection of a single Wired Remote Controller, or Wireless Receiver Unit, to a single indoor unit.

Group connection

This method enables the connection of up to 8 indoor units to a single Wired Remote Controller, or Wireless Receiver Unit. In this configuration, up to 8 indoor units can be controlled simultaneously (all indoor units follow the same setting parameters) from a single Local Control Device.

Multiple controller connection

This method enables the connection of up to 2 Local Control Devices (Wireless Receiver Unit or Wired Controller) to a single indoor unit, or a group of up to 8 indoor units. In this configuration, Main/Sub settings must be configured for each of the connected Local Control Devices.



Infra-red



Wired Simplified



Wired Standard



Wired Controller

Black Pear

The Black Pear Toshiba HVAC controller is the most versatile on the market, connecting directly to the 2-wire TCC-Link network and will control RAV 64 groups of up to 8 indoor units per group and VRF up to 64 indoor units.

The integrated LCD display provides an engineer's interface for local control, removing the need for a central controller and separate interface. The result saves time and space, and commissioning is made simple with free USB-based configuration software. The units will operate on systems with or without a central controller and supports Modbus, BACnet or Trend protocols. The device is easily configured to communicate with units in the same way that a standard central controller communicates with connected units. When the controller is powered it scans the entire network for all connected indoor units. The keypad controller can be used to operate all indoor units. This feature is very useful in the event of a BMS failure in providing and enabling continuous communication. The controller can be configured by a PC interface to group units and name zones.

There are 3 models providing different protocol solutions:

- | | |
|----------|---|
| RBC-BPB1 | BACnet/IP |
| RBC-BPM1 | Modbus RTU via RS232/RS485 and Modbus TCP |
| RBC-BPT1 | Trend via Ethernet (requires an IQ3/4 outstation with spare memory) |



CONTROLS

Touch Screen Controller and BACnet

Touch Screen Controller

RBC-TBPTS

Our latest generation Toshiba Touch Screen Controller provides a modern compact approach to management control technology utilising easy-to-use icons and simple intuitive navigation to deliver sophisticated strategies that provide precise control and data analysis.

The Toshiba Touch Screen Controller is simple to install and configure and offers three levels of operation: general user, building manager and engineering - all password-protectable. The Toshiba Touch Screen Controller features a built-in web browser interface, air conditioning status, unit enable and disable, time and alarm management control and fault indication.

TCS Net Relay Interface BMS-IFLSV4E

The Relay Interface connects to the Touch Screen Controller via the RS485 Network using connections A & B. The air conditioning network connects to terminals U1 & U2 (U3 & U4 at the outdoor unit) and a maximum of 64 indoor units may be served. The relay interface requires a 240 V 3 A mains power supply.

BACnet

The BACnet solution allows Toshiba indoor units to be connected to a BACnet over IP-based BMS. The gateway uses all standard BACnet objects for the control and monitoring of each indoor unit. The BACnet solution is intended for use on systems where control of the air conditioning is being carried out by another system that is part of the wider BMS for a large building. BACnet is a standard protocol adopted by many BMS companies as a standard network protocol they support.



Energy-Monitoring Relay Interface BMS-IFWH5E

The Energy-Monitoring Relay Interface connects to the RS485 Network and provides a means of interface to the pulse power meters. Up to eight power meters can be connected to each Relay Interface.

Digital Input/Output Relay Interface BMS-IFDD03E

The D/I module connects to the RS485 Network and provides 8 inputs and 4 outputs, which could be used to interface a fire alarm system or a room occupancy sensor. The D/I module output could be used as a means of remote fault indication to another system.

Intelligent Server BMS-LSV9E

The intelligent server connects to the BACnet system by a network connection, usually to a local hub. The relay interfaces connect to the server by the RS485 Network. Two relay interfaces may be connected, with a maximum of 128 indoor units. The Intelligent Server requires a 240 V 3 A mains supply.

BACnet Software BMS-STBN10E

The BACnet software is contained on a standard Compact Flash Card, which plugs directly into the Intelligent Server.

TCS Net Relay Interface BMS-IFLSV4E

The Relay Interface connects to the Touch Screen Controller via the RS485 Network (A & B connections). The air conditioner network connects to the U1 & U2 connections, with a maximum of 64 indoor units served. The Relay Interface requires a 240 V 3 A mains supply.

CONTROLS

Windows Package and Smart Manager Controller

Windows Package

RBC-WP1-PE

The RBC-WP1-PE is a front-end software package that controls all aspects of the air conditioning systems installed on a site. The software is installed on a PC, which then connects to a TCB-IFLN642TLE LonWorks gateway for connection to the indoor units. The software allows all of the unit's operating parameters to be adjusted from the one PC. It allows faults to be reported and re-transmitted via email, fax or text message. The software can be accessed remotely either by telephone or via the Internet. The software can log data and provide graphical representation of data. It has a schedule built-in for time control and it can also be used to reset set points or modes of operation.

Energy-monitoring software

RBC-EM1-PE

The energy-monitoring software can be included to calculate the running costs of individual indoor units. This data can then be provided in structured bills for the building tenants. This data is calculated from the demand given from the indoor units and the power consumed by the system. The RBC-EM1-PE power meter is required for this function (one for each system).

Smart Manager Controller

Smart Manager Data Analyser

BMS-SM1280ETLE

The Smart Manager is a product that is capable of controlling 128 indoor units from a single location. The device has the facility to set all of the operating parameters for individual or zoned indoor units, whether they are VRF or individual split systems. It is also capable of displaying individual fault codes for any units on the network.

The Smart Manager can be remotely connected via a PC and all functions can be controlled via Internet Explorer. This controller can also be linked to energy-monitoring relay interfaces for the collection of data for energy billing. The controller can also be linked to the digital input/output module for the interface to other systems.

The Smart Manager has some advanced functions for different users which can be configured to give restricted access. The controller has an advanced time clock function to give the building owner flexibility. The controller has a return back function, which returns the unit settings to a predetermined setting after a period of time. All of these functions are accessed via the web interface.

Control of other devices

RBC-DI1-PE

The Digital Input/Output module that is used to control other plant systems. For example, we can enable boilers or other air handling units. The module can accept inputs also; examples would be an input from a fire alarm where the air conditioners are shut down or an input to switch on the air conditioners from an external source.



Energy-Monitoring Relay Interface

BMS-IFWH5E

The energy-monitoring Relay Interface connects to the RS485 Network and provides a means of interface to the pulse power meters. Up to eight power meters can be connected to each Relay Interface.

Digital Input/Output Relay Interface

BMS-IFDD03E

The D/I module connects to the RS485 Network and provides 8 inputs and 4 outputs, which can be used to interface a fire alarm system or a room occupancy sensor. The D/I module output can be used as a means of remote fault indication to another system.



CONTROLS

LonWorks Gateway and BMS Interface

LonWorks Gateway

LonWorks Gateway TCB-IFLN642TLE

The LonWorks Gateway is a device that allows the Toshiba indoor units to be connected to a LonWorks-based BMS. The gateway uses all standard network variables contained in individual function blocks for each indoor unit. The gateway can communicate with up to 64 indoor units on a U1/U2 Network. The device is used to connect to a LonWorks Network, with which many BMS companies are able to communicate (open network protocol).

All of the data for each indoor unit is available on the LonWorks Network; there are twenty-nine standard network variables for each indoor unit, all of which are available on the gateway.

The gateway connects to the air conditioner network via the U1 & U2 connections, with a maximum of 64 indoor units served. The gateway requires a 240 V 3 A mains supply.



BMS Interface

BMS Interface RBC-TS11

The RBC-TS11 is a versatile interface for Toshiba air conditioning units, offering a wide range of external control facilities.

The unit attaches to the TCC-NET A/B network. It is network powered and may be used with or without a remote controller being present.

Up to eight indoor units may be monitored and controlled as a group by a single RBC-TS11.

Hardware Interface:

Six analogue control inputs selectable as resistance or 0-10 V DC. Two relay outputs for 'Run' and 'Error' rated 24 V 0.1 A.

Serial Interface:

RS485 serial Modbus connection with slave addresses from 1 to 254 and configurable baud rates and parity. Modbus may be used for monitoring and control or to allow the operation of up to sixteen units in a 'Master/Slave' configuration.



Operating Modes:

Several modes of operation are available including special modes for energy saving and hotel applications. Modes are selected by a link and bit switches.

Available modes:

1. Standard operation with the facility to interconnect up to 16 units as a 'Master/Slave' group
2. As (1) for VN units
3. Preset mode operation
4. Local/Restore mode
5. Duty/Standby operation
6. Eco-1 (Timed Fan)
7. Eco-2 (Fan Band)
8. Hotel mode
9. AHU mode

CONTROLS

Remote controllers for use with RAV and VRF indoor units

Wired Remote Controller

Accessory	RBC-AMT32E	RBC-AMS41E	RBC-AMS55E-ES	NRC-01HE	RBC-AS41E	RBC-ASC11E	RBC-MTSC1
							
ON/OFF	✓	✓	✓	✓	✓	✓	✓
Mode	✓	✓	✓	✓	-	✓	✓* [Note 12]
Setting Temperature	✓	✓	✓	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓	✓	✓	✓
Timer Function	✓	✓	✓	✓	-	✓	-
Schedule Function	-	✓	✓	-	-	-	-
Multi language	-	-	✓	-	-	✓	-
Energy Save Function	✓	✓	✓	✓	-	-	-
Filter dirty indicator	✓	✓	✓	✓	✓	✓	-
Error Display	✓	✓	✓	✓	✓	✓	✓
Dual automatic mode	-	-	✓	-	-	-	-
Soft cooling	-	-	✓	-	-	-	-

Wireless Remote Controller

Accessory	RBC-AX32U(W/WS)-E	RBC-AX33CE	TCB-AX32E2	RBC-AX32UW(W)-E
				
ON/OFF	✓	✓	✓	✓
Mode	✓	✓	✓	✓
Setting Temperature	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓
Timer Function	✓	✓	✓	✓
Schedule Function	-	-	-	-
Multi language	-	-	-	-
Energy Save Function	-	-	-	-
Filter dirty indicator	-	-	-	-
Error Display	✓ (*)	✓ (*)	✓ (*)	✓ (*)
Dual automatic mode	-	-	-	-
Soft cooling	-	-	-	-

(*):The error indication is displayed with LED of the receiver unit

Notes for comparison table opposite:

[Note 1] Not provided on the high-static ducted unit.

[Note 2] On the high-static ducted unit, high only displayed and no selection.

[Note 3] No function for standard ducted unit, high-static ducted unit, floor-standing cabinet unit, floor-standing concealed unit and slim ducted unit.

[Note 4] SHRM-e only except DI/SDI.

- [Note 5]
- DN code 32 setting is necessary for remote controller sensor.
 - Be careful that the surrounding air flow of the remote temperature sensor is not poor.
 - When using 2 remote controllers, the Header controller is recognized as remote sensor although the temperature can be set from either Header or Follower remote controller.
 - Do not use remote sensor in case of group control except DI/SDI.

[Note 6] Select the remote sensor switch on the controller.

[Note 7] Wireless type max. 6 address setting. The address switch position on both receiver and controller shall be selected.

[Note 8] The actual functions depend on the air conditioner.

[Note 9] Another 200 m for indoor to indoor wiring.

[Note 10] SDI units operating with R32 only.

[Note 11] For settings, refer to the installation manual of RBC-AMS55E-ES.

[Note 12] Configurable for multiple screen background setting. Use CN61 connection to set back for energy saving for unoccupied space (✓* preliminary data).

CONTROLS



Controller Comparison Table

Wired Remote Controller

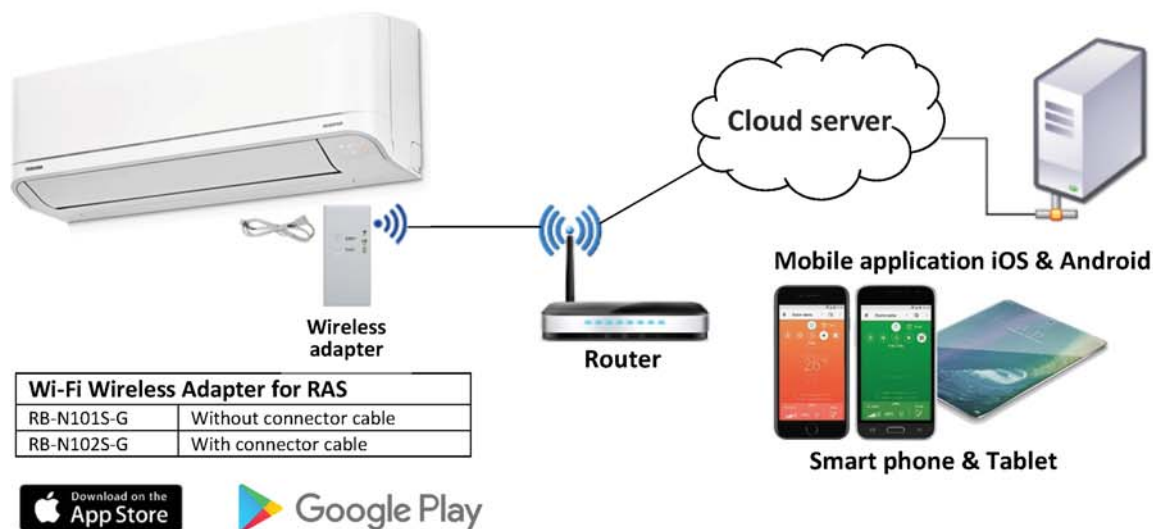
Accessory		RBC-AMT32E	RBC-AMS41E	RBC-AMS55E-ES	NRC-01HE	RBC-AS41E	RBC-ASC11E	RBC-MTSC1
Type		Standard	With schedule timer	With LCD display and backlight	Air-to-air heat exchanger with DX coil unit	Simple wired remote controller	Compact simple wired remote controller	Compact simple wired touch screen controller
Dimensions		120 x 120 x 16 mm	120 x 120 x 16 mm	120 x 120 x 20 mm	120 x 120 x 16 mm	120 x 70 x 16 mm	86 x 86 x 16 mm	141 x 74 x 15 mm
Installation Place		Wall	Wall	Wall	Wall	Wall	Wall	Wall
Max. Wired Length [Note 9]		500 m	500 m	500 m	500 m	500 m	500 m	500 m
ON/OFF		✓	✓	✓	✓	✓	✓	✓
Mode	Auto [Note 4]	✓	✓	✓	✓	✓	✓	✓
	Cool	✓	✓	✓	✓	✓	✓	✓
	Heat	✓	✓	✓	✓	✓	✓	✓
	Dry [Note 1]	✓	✓	✓	✓	✓	✓	✓
	Fan	✓	✓	✓	✓	✓	✓	✓
Temperature Setting Range	Auto [Note 4]	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Cool	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Heat	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Dry [Note 1]	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
Fan Auto/Low/Med/High [Note 2]		✓	✓	✓	✓	✓	✓	✓
Louvre Position [Note 3]		✓	✓	✓	✓	✓	✓	✓
Ventilation Control		✓	✓	✓	✓	✓	✓	✓
Filter Sign/Reset		✓	✓	✓	✓	✓	-	-
Return Back		-	-	✓	✓	-	-	-
Power Save [Note 8]								
Individual louvre [Note 8]		✓	✓	✓	✓	-	-	-
Frost protection (heating at 8°C) [Note 8]								
Self-cleaning mode [Note 8]								
Energy Monitoring		-	-	✓ [Note 10]	-	-	-	-
Clock		-	✓	✓	-	-	-	-
ECO/Hi-POWER/MEMO/AUTO		-	-	-	-	-	-	-
Grille Up/Down [Note 8]		-	✓	✓	✓	-	-	-
Function Setting (DN Code)		✓	✓	✓	✓	-	-	✓
Temperature Sensor [Note. 5]		✓	✓	✓	✓	✓ [Note 6]	✓ [Note 6]	✓* [Note.12]
Header/Follower	Header	✓	✓	✓	✓	✓	✓	✓* [Note.12]
	Follower	✓	✓	✓	✓	✓	✓	✓* [Note.12]
Multiple Control [Note 7]		Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 1 indoor
Timer		Off/repeat off/on	Off/repeat off/on	Off/repeat off/on	Off/repeat off/on	-	Only Off	-
Weekly Schedule		-	✓ 7-day timer, 8 functions for each day of the week	✓ 8 programs/day, holiday setting, 3 patterns	-	-	-	-
Connectivity to Schedule Timer (TCB-EXS21TLE)		✓	-	-	✓	-	-	-
Error Output		✓	✓	✓	✓	✓	✓	✓
Error History		✓ 4 history	✓ 4 history	✓ 10 history	✓ 4 history	-	-	-
Air-to-Air Heat Exchanger With DX Coil Unit	ON/OFF	✓	✓	✓ [Note 11]	-	-	-	-
	Mode	-	-	✓ [Note 11]	-	-	-	-
	Fan Speed	-	-	✓ [Note 11]	-	-	-	-

Wireless Remote Controller

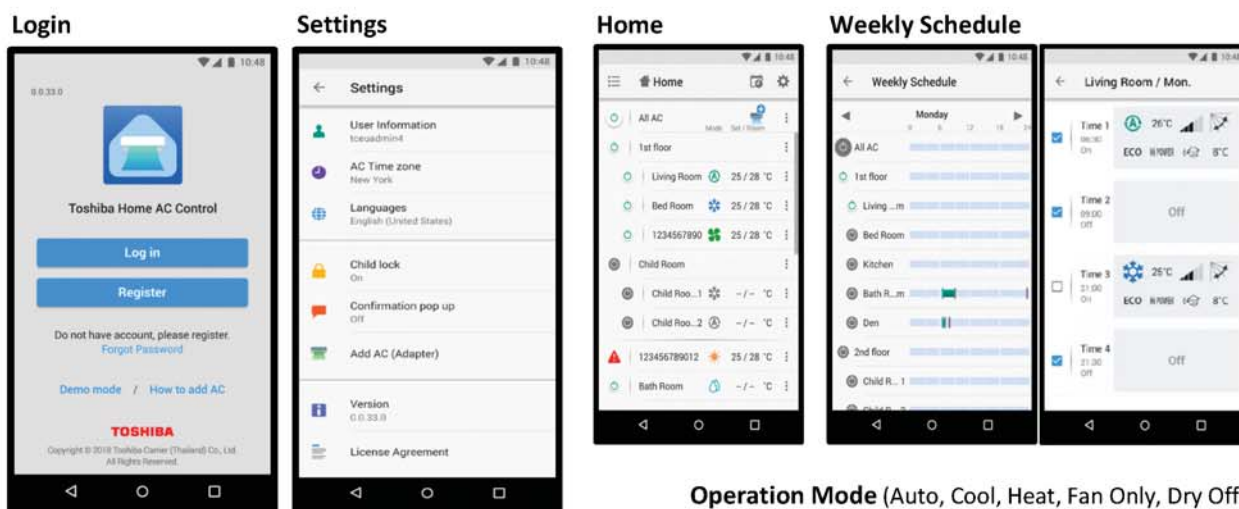
Accessory		RBC-AX32U(W)-E (WH-L11SE)	RBC-AX33CE (WH-L11SE)	TCB-AX32E2 (WH-L11SE)	RBC-AX32U(W)-E (WH-L11SE)	WH-L11SE	WH-H2UE
Indoor Type		For 4-way air discharge cassette	For under-ceiling and 1-way air discharge cassette (SH)	For compact 4-way cassette, 1-way air discharge cassette (YH), concealed duct standard, slim duct floor-standing cabinet, floor standing	For 2-way air discharge cassette	For high-wall 3 series (VRF), high-wall 6 series (LC), console	For high-wall 4 series (VRF)
Dimension	Handset	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	56 x 150 x 19 mm
	Receiver	163 x 163 x 24 mm	130 x 65 mm	120 x 70 x 18.2 mm	162 x 65 mm	Receiver included	Receiver included
Installation Place		Inside indoor (receiver)	Inside indoor (receiver)	Wall (receiver)	Inside indoor (receiver)	-	-
Max. Wired Length [Note 9]		400 m	400 m	400 m	400 m	-	-
ON/OFF		✓	✓	✓	✓	✓	✓
Mode	Auto [Note 4]	✓	✓	✓	✓	✓	✓
	Cool	✓	✓	✓	✓	✓	✓
	Heat	✓	✓	✓	✓	✓	✓
	Dry [Note 1]	✓	✓	✓	✓	✓	✓
	Fan	✓	✓	✓	✓	✓	✓
Temperature Setting Range	Auto [Note 4]	17-30°C	17-30°C	17-30°C	17-30°C	17-30°C	17-30°C
	Cool	17-30°C	17-30°C	17-30°C	18-30°C	17-30°C	17-30°C
	Heat	17-30°C	17-30°C	17-30°C	16-30°C	17-30°C	17-30°C
	Dry [Note.1]	17-30°C	17-30°C	17-30°C	18-30°C	17-30°C	17-30°C
Fan Auto/Low/Med/High [Note 2]		✓	✓	✓	✓	✓	✓
Louvre Position [Note 3]		✓	✓	✓	✓	✓	✓
Filter Sign/Reset		-/-	-/-	-/-	-/-	-/-	-/-
Clock		✓	✓	✓	✓	✓	✓
ECO/Hi-POWER/MEMO/AUTO		✓	✓	✓	✓	✓	✓
Header/Follower	Header	✓	✓	✓	✓	✓	✓
	Follower	✓	✓	✓	✓	✓	✓
Multiple Control [Note 7]		Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	One wireless only
Timer		Off/on/on-off/daily	Off/on/on-off/daily	Off/on/on-off/daily	Off/on/on-off/daily	Off/on/on-off/daily	Off/on/on-off/daily
Error Output		✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	-

CONTROLS

New Toshiba Home AC Control



Users can download the mobile application from App Store or Google Play with the name "Toshiba Home AC Control". Apps will be available from end of November 2018.



Operation Mode (Auto, Cool, Heat, Fan Only, Dry Off)

Wireless Adapter Specification		
Dimensions L x W x H	(mm)	110 x 50 x 15.5
Cable connector length	(mm)	650 (used with RB-N102S-G only)
Weight	(kg)	0.05
Operating temperature	(°C)	0 to +40
Power input	(DC v)	5
Power consumption	(watts)	0.05
Casing		High Impact Polystyrene UL94-HB
Wi-Fi Bands	(GHz)	2.4
Radio Protocol	(IEEE)	802.11b/g/n/d/e/i
Control and Connection		
Number of AC units per wireless adapter		1
Number of users per wireless adapter		5
Maximum number of AC units per user		10
Maximum number of groups/zones		3



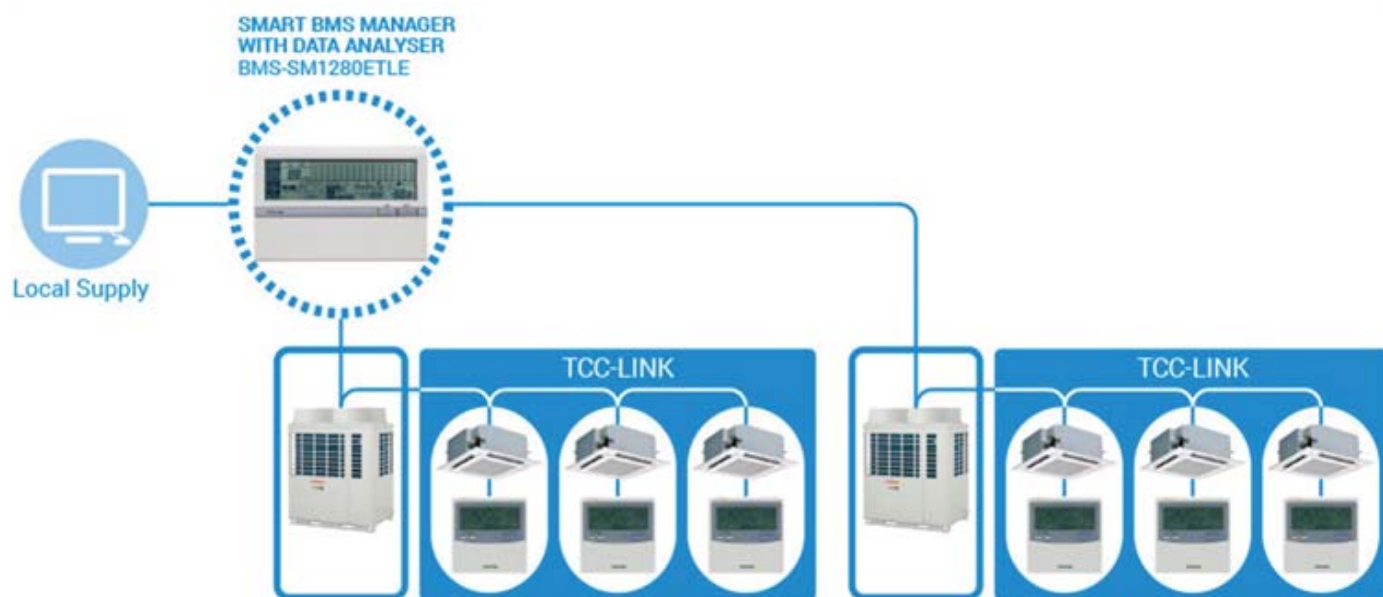
CONTROLS

Network Controls

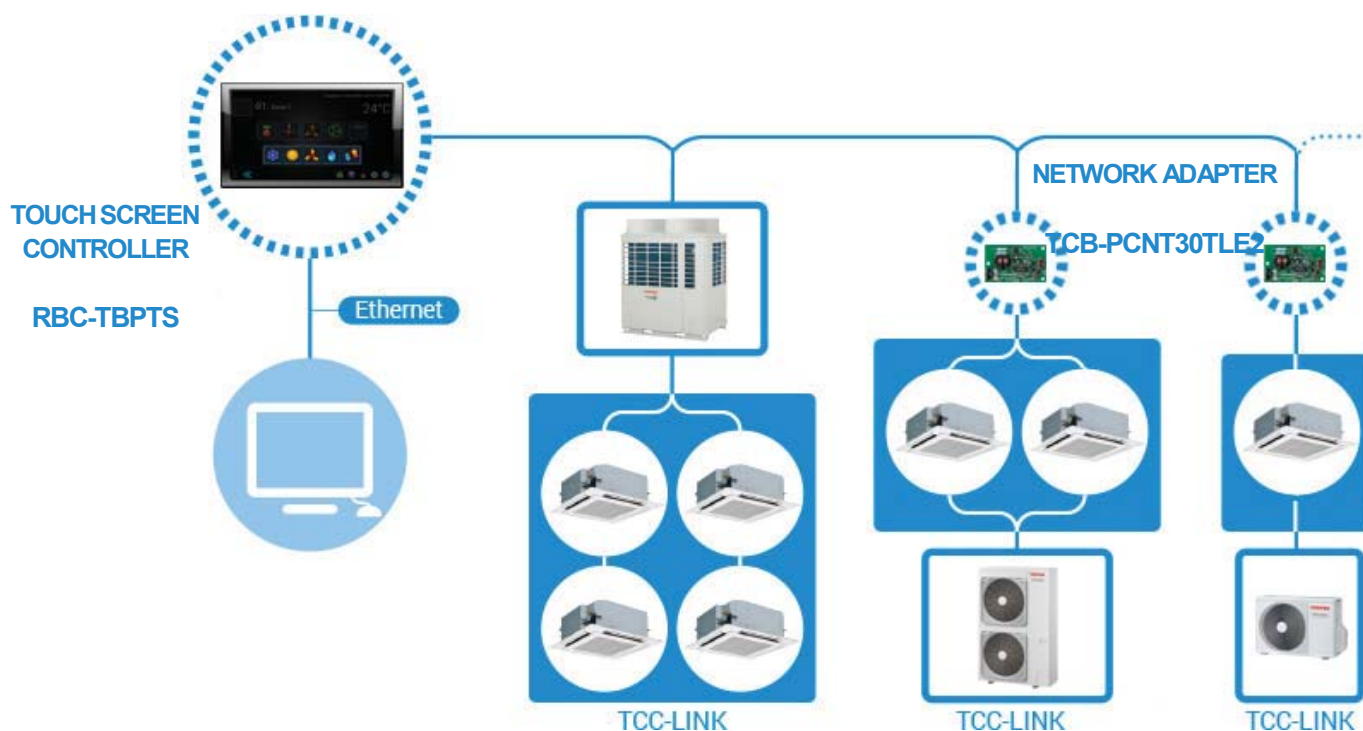
Toshiba offers a wide range of centralised network control solutions for a diverse range of building environmental management needs, such as remote network control, energy monitoring, report generation, advanced scheduling and others. What's more, comprehensive interface solutions provide easy installation and integration with leading building management systems.

Building Management Systems

Smart BMS Manager with Data Analyser



Touch Screen Controller



CONTROLS

Open Network Systems

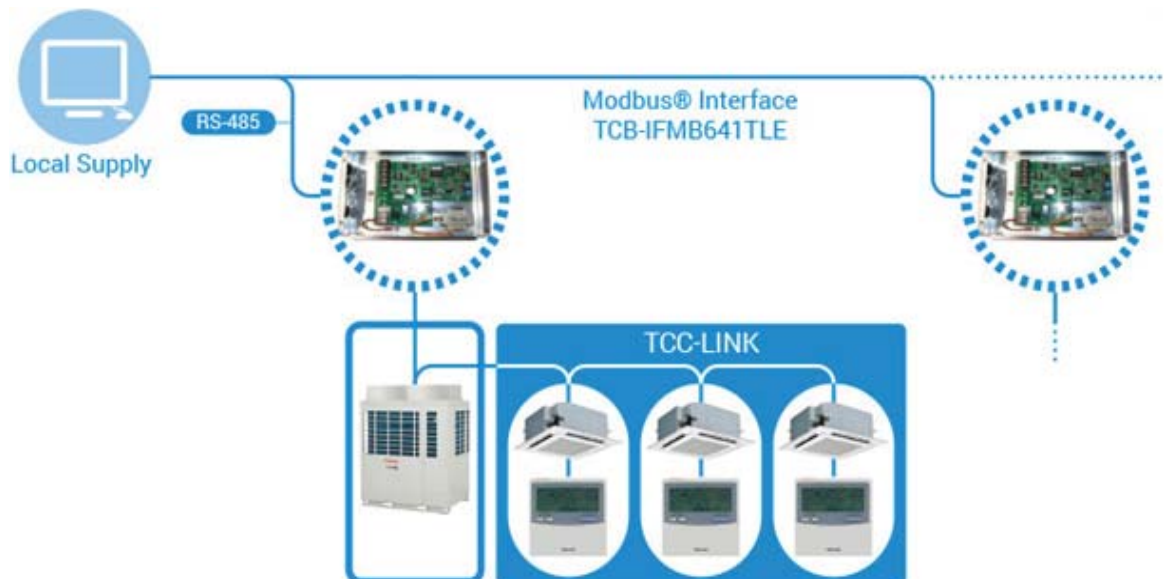
BACnet® System



LonWorks® System



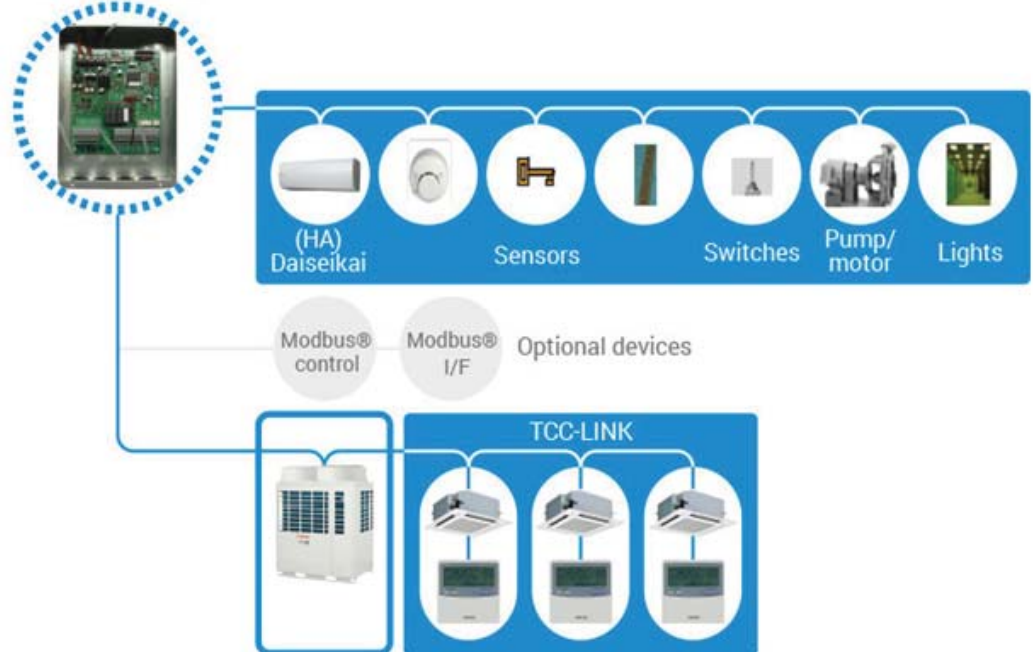
Modbus® System



CONTROLS

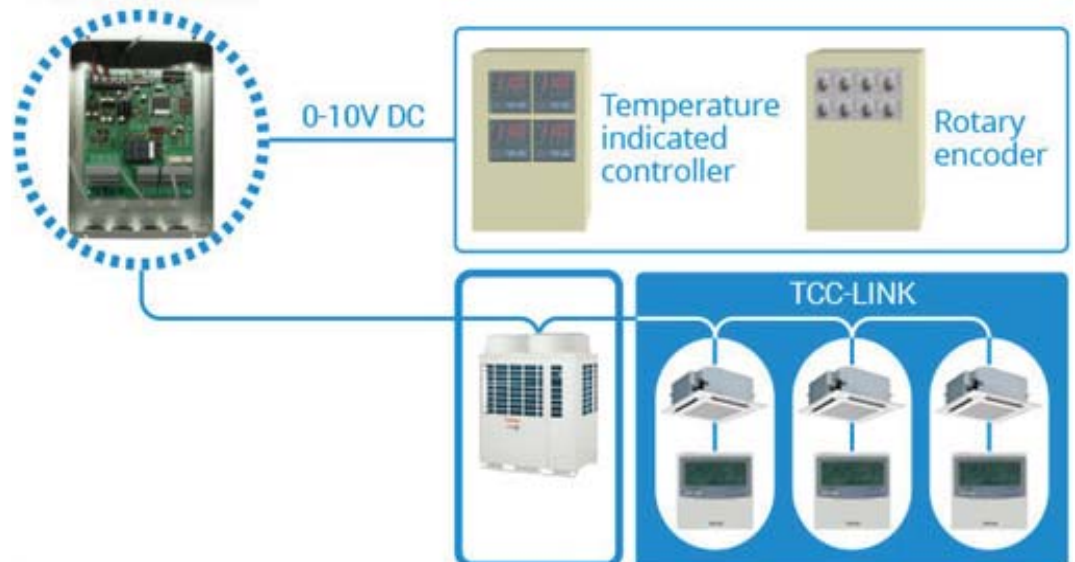
General Purpose Interface

General purpose interface
TCB-IFCG1TLE



Analog Interface

Analog interface
TCB-IFCB640TLE



CONTROLS

Central Remote Controllers and Schedule Timer

Accessory Type	RBC-TBPTS Touch Screen Control Central Remote Control	BMS-CT280E Touch Screen Control Central Remote Control	BMS-CM1280TLE Compliant Manager/ Central Control	TCB-SC643TLE2 Central Remote Control
				
ON/OFF	✓	✓	✓	✓
Mode	✓	✓	✓	✓
Setting Temperature	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓
Timer Function	✓	✓	✓ (*2)	✓
Schedule Function	✓	✓	✓ (*2)	✓
Multi-Language	✓	✓	-	-
Energy-Save Function	✓	✓	-	-
Permit/Prohibit Function	✓	✓	✓	✓
Filter Dirty Indicator	✓	✓	✓	✓
Error Display	✓	✓	✓	✓

(*1): Error can be recognized by blink of the button on the remote controller. However, error code is not displayed.

(*2): Schedule timer (TCB-EXS21TLE) needed.

Advanced Central Controllers

Accessory Type	RBC-BPB1 Black Pear BACnet	RBC-BPM1 Black Pear Modbus	RBC-BPT1 Black Pear Trend	BMS-SM1280ETLE Smart BMS Manager with Data Analyser
				
Start/Stop, Mode, Setting Temperature, Fan Speed	✓	✓	✓	✓
Filter Dirty Indicator, Error Display	✓	✓	✓	✓
Permit/Prohibit Function	✓	✓	✓	✓
Schedule Timer Connection	✓	✓	✓	✓
Schedule Function	✓	✓	✓	✓
WEB Connection	✓	✓	✓	✓
Option Interface Connection	-	-	-	✓ (*1)
Energy Monitoring	-	-	-	✓ (*2)
Multi-Language	-	-	-	✓
Demand Function	-	-	-	✓
Error Information Transfer Function by E-mail	✓	✓	✓	-

(*1) Digital I/O Relay Interface only.

(*2) Energy Monitoring Interface needed.

Additional Devices

Model Name	BMS-IFLSV4E Relay Interface	BMS-IFDDO3E Digital Input/ Output Interface	BMS-IFWH5E Energy Monitoring Interface
Type			
			
TCC-Link Line	✓ (1 Line)	-	-
Option Interface Connection	-	✓	-
Energy Monitoring	-	-	✓
Digital Input/Output	-	8/4	8/-

Open Network Interface

Accessory Type	TCB-IFLN642TLE LN Interface	
		
Object	Command	Monitoring
ON/OFF Status	✓	✓
Operation Mode	✓	✓
Fan Speed	✓	✓
Louvre	✓	✓
Set Temperature	✓	✓
Filter Dirty Indicator	✓	✓
Room Temperature	-	✓
Permit/Prohibit of Local Operation	✓	✓
Error Status	-	✓
Error Code	-	✓

CONTROLS

Leak Detection and Containment - Panels

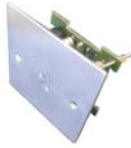
Leak Detection Panel		TCB-LD1	TCB-LD2	RBC-RP1
Repeater & Remote Indication Panels				
Standard Rating	IP	50	65	-
Enclosure		FRABS (UL 94-V0 Plastic)	Metal	Metal
Colour		Black	Light grey RAL 7035	Light grey RAL 7035
Height	mm	114	400	500
Width	mm	194	300	400
Depth	mm	62	155	150
Weight	kg	0.7	10	15
Isolating Gas Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	-
Isolating Liquid Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	-
Isolating Suction Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	-
Sensor(s) Type (Supplied Loose)		-	-	-
Interface Cards (Supplied Loose)		-	*1 x TCB-PCMO4E *1 x TCB-PCIN4E	-
Audible Alarm		-	Yes	Yes
Audible Alarm Sound Level	dB	-	80 (2300 Hz $\pm$ 300)	-
Alarm Mute		-	Yes	Yes
Visual Indicator (Neon)		Alarm	Internal External CDU 7-segment	Live Healthy Alarm
Fault Code Generated To Local Remote Controller		L30	L30 or CDU P15 algorithm	-
Interconnecting Cable Max. Length	m	24	-	100
Interconnecting Cable Type	mm ²	1.00	-	3 core 1.5
Interconnecting Cable Type Remote Indication		-	-	2 core 0.75
Control Circuit Power	Volts	230	24	24
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Suggested Fused Supply	A	1	3	6
Interface Card(S) (Required Accessory)		-	-	*RBC-RI1
*Max. 4 Circuits				
In Room Detector (Required Accessory)		TCB-LDS1 or TCB-LDS2	*TCB-LDS1/TCB-LDS2	*TCB-LDS1/TCB-LDS2
*Max. 10 per Circuit				
RETAIL PRICE		£236	£1,845	£1,473

Isolation Valves For TCB-LD2	TCB-	AW17861	AW17862	AW17863	AW17864	AW17865	AW17866	AW17867
Model Series		I	I	I	I	II	II	II
Refrigerant Pipe Connection (In & Out)	inch	1/2	5/8	3/4	7/8	1-1/8	1-3/8	1-5/8
Weight	kg	1	1.08	1.09	1.1	1.41	2.51	3.15
Running Time (Open - Close)	Sec	125	125	125	125	150	150	150
Ambient Operation Limitations	°C	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55
Ambient Humidity Limitations	rh %	95	95	95	95	95	95	95
Power Consumption	VA	2.3	2.3	2.3	2.3	3	3	3
Operating Voltage	Vac	24 $\pm$ 20% or -15%	24 $\pm$ 20% or -15%	24 $\pm$ 20% or -15%	24 $\pm$ 20% or -15%	24 $\pm$ 20%	24 $\pm$ 20%	24 $\pm$ 20%
Operation Frequency	Hz	50	50	50	50	50	50	50
IP Rating	IP	54	54	54	54	54	54	54
Model Group Cyclemaster		Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves
Refrigerant Function (Gas & Liquid)		Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework
RETAIL PRICE		£302	£302	£327	£358	£494	£519	£537

Leak Detection and Containment - Repeaters

Repeater & Remote Indication Panels		RBC-AIP1	RBC-AIP2	RBC-AIP3		
Leak Detection Room Indicator					RBC-AIP4	
Refrigerant Leak Detector						RBC-RI1
						
Enclosure		Metal	Metal	Metal	Plastic	Plastic
Colour		Light grey RAL 7035	Light grey RAL 7035	Light grey RAL 7035	White	White
Colour Cost Option Upgrade	Various	-	-	-	Fascia Plate	Fascia Plate
Height	mm	500	500	500	92	92
Width	mm	400	400	400	92	92
Depth	mm	150	150	150	60	60
Weight	kg	15	15	15	0.2	0.2
Audible Alarm		Yes	Yes	Yes	Yes	Yes
Audible Alarm Sound Level	dB	-	-	-	95 (3400 Hz ±500)	95 (3400 Hz ±500)
Alarm Mute		Yes (Key Switch)	Yes (Key Switch) & Remote	Yes (Key Switch)	Mute Button/Powered OFF	Mute Button/Powered OFF
Visual Indicator (Neon)		Live Healthy Alarm	Live Healthy Alarm	Live Healthy Alarm	Yes	Yes
Interconnecting Cable Max. Length	m	100	100	3	100	100
Interconnecting Cable Type	mm ²	3 core 1.5	3 core 1.5	USB	3 core 1.5	3 core 1.5
Interconnecting Cable Type Remote Indication		-	2 core 0.75		-	-
Control Circuit Power	Volts	24	24	24	24 (via RP1)	24 (via RP1)
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	Battery Back-up	-	-
Suggested Fused Supply	A	6	6	-	(via RP1)	(via RP1)
Interface Card(S) (Required Accessory) *Max. 4 Circuits		inc. RBC-DI1	inc. RBC-DI1	-	-	-
On-site Commissioning Support		-	-	Half Day Included	-	-
RETAIL PRICE		£1,705	£2,796	£2,914	£79	£82

Leak Detection and Containment - Detectors

Refrigerant Leak Detector		TCB-LDS1	TCB-LDS2
			
Enclosure		Plastic	Steel
Colour		White	Stainless
Colour Cost Option Upgrade	Various	Fascia Plate	Fascia Plate
Height	mm	85	85
Width	mm	85	85
Depth	mm	32	32
Weight	kg	0.085	0.085
Audible Alarm		Yes	Yes
Audible Alarm Sound Level	dB	85 (2300 Hz ±300)	85 (2300 Hz ±300)
Alarm Mute		Powered OFF	Powered OFF
Visual Indicator (Neon)		3-coloured LED	3-coloured LED
Fault Code Generated To Local Remote Controller		L30	L30
Interconnecting Multi-core Cable Length/Fused	m	10/Yes	10/Yes
Interconnecting Cable Type Remote Indication	mm ²	0.75 multi-core	0.75 multi-core
Power Supply	volts	12-24 AC/DC	12-24 AC/DC
Power Consumption Min./Max.	mA	40/100	40/100
Circuit Protection Fuse Supplied With Cable	mA	125	125
Cable Link For Remote ON/OFF (Ving Card)		Yes	Yes
Screw Terminal Connections		5	5
Fail Safe Relay Operation		Yes	Yes
Mounting Height Above Floor Level	mm	150-250	150-250
Fixing Box Part Number (Sold Separately)		TCB-LDSBB1	TCB-LDSBB2
Fixing Method - (Type)		Flush dry lining - (Plastic)	Flush mount - (Metal)
Fixing Box Size H x W x D	mm	86 x 86 x 46	68.3 x 68.3 x 47
12 Volt Transformer Location		Remote	Remote
RETAIL PRICE		£540	£566

CONTROLS

MODBUS® RTU

Reliable and easy to use



TCB-IFMB641TLE

Directly connects up to 64 Toshiba Air Conditioning indoor units and up to 16 outdoor units to a Modbus® Building Management System. Maximum 15 Modbus I/F can be connected per Modbus Master Device.

Individual gateway



BMS-IFMB0TLR-E (RAV/VRF)
BMS-IFMB0AWR-E (Estia)

Connect easily one indoor unit or a group of 8 indoor units to a Modbus Building Management Control System.

LONWORKS®

12 input network variables



TCB-IFLN642TLE

Directly connect up to 64 Toshiba Air Conditioning indoor units and 16 up to 16 outdoor units to a Lonworks® Building Management Control System. Compatible with RBC-WP1-PE Lonworks Control software.

KNX®

ETS configuration



TO-AC-KNX-64 (RAV/VRF)
TO-AC-KNX-16 (RAV/VRF)
BMS-IFKX0TLR-E (RAV/VRF)
BMS-IFKX0AWR-E (Estia)

Directly connect up to 64, 16 or only one Toshiba Air Conditioning indoor units to a KNX® Building Management Control System.

BACNET® IP

Standard gateway



BMS-IFBN640TLE

Directly connect up to 64 Toshiba Air Conditioning indoor units to a BACnet® Building management Control System.

Network adaptor TCB-PCNT30TLE2 required for connection of DI/SDI Indoor Units (1 per Master Indoor Unit)

ANALOGUE INTERFACE

Analogue 0/10V control



TCB-IFCB640TLE

The Analogue Relay Interface is a device that can be connected directly to the TCC-Link Central Control network to provide Analogue & Digital Inputs & Outputs for control over Toshiba Air Conditioner products from non-Toshiba control systems.

GENERAL PURPOSE RELAY INTERFACE

Toshiba equipment control



TCB-IFCG1TLE

The General Purpose Relay Interface is a device that can be connected directly to the TCC-Link Central Control Network and addressed on the TCC-Link Network in order to provide control of non-Toshiba equipment from a Toshiba control system, and control of the Toshiba Air Conditioner from Digital & Analogue Inputs.

GSM INTERFACE

Control any time anywhere...



TCB-IFGSM1E

The TCB-IFGSM1E Interface is a device that allows control of the Toshiba Air Conditioner Equipment from a remote location using standard GSM (Global system for Mobile communications) Mobile phone SMS text messages.

Accessories

Accessories - Control Panels, Software, Infra-red and Wired Controllers

Control Panel		RBC-AC1	VRF - RAV	Auto-Changeover Panel	Unit auto-changeover with temperature high limit stat (1 Run/1 Standby)	£1,545
		RBC-AC2		Auto-Changeover Panel	Unit auto-changeover with temperature high limit stat (2 Run/1 Standby)	£1,843
		RBC-AIP1		Remote Indication Alarm	Remote indication of alarm for up to 8 x RBC-RD6/RBC-RP1 panels incl. RBC-DI1	£1,705
		RBC-AIP2		Remote Indication Alarm & Reset	Remote indication of alarm and remote reset for up to 4 x RBC-RD6 panels incl. RBC-DI1	£2,796
		RBC-EM1-PE		Energy-Monitoring Kit	Power meter and transformers to be used with the Windows Package and Touch Screen	£1,178
Control Software		BMS-STBN10E	VRF - RAV	BACnet Control	BACnet server software (please refer to page 227 for full list of BACnet Control accessory options)	£1,872
		RBC-WP1-PE		Windows Package	Interactive intelligence software to be used with the TCBIFLN642TLE LonWorks Gateway (please refer to page 228 for full list of Windows Package accessory options)	£2,153
Controller Infra-Red		RBC-AX32UW(W)-E	VRF - RAV	2-Way Cassette Receiver	Replacement receiver and remote controller	£189
		RBC-AX33CE		Ceiling Receiver	Replacement receiver and remote controller	£176
		RBC-AX32U(W)-E		4-Way Cassette Corner	Replacement corner pocket with built in receiver and remote controller	£160
		TCB-SIR41UM-E		Compact Cassette	Occupancy sensor control with 10 m diameter detection	£76
		RBC-AX41U(W)-E		Compact Cassette	Wireless infra-red controller and receiver	£164
		TCB-AX32E2		External Receiver	Independent receiver and WH-L11SE remote controller for all models	£231
		RB-RXS30-E	RAS	Single-Split System	Weekly-timer, single combination	£59
		RB-RXS31-E		Multi-Split System	Weekly-timer, IMS combination	£59
Controller Wired		HWS-AMS54E	ESTIA	Estia Wired Remote Controller	Full control including service functions with fully programmable 7-day timer	£115
		NRC-01HE	VN	Remote Controller	VN-M150-2000HE air-to-air heat exchangers	£82
		RBC-AMS41E	VRF - RAV	Remote Controller Built-In Timer	Full control including service functions with fully programmable 7-day timer	£70
		RBC-MTSC1		Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£232
		RBC-AMS55E-ES		Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£113
		RBC-AMT32E		Standard Remote Controller	Full control including service functions	£59
		RBC-ASC11E		Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£74
		RBC-AS41E		Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£74

ACCESSORIES

Accessories - Controls: Wired Controllers and Indoor Interfaces

Controller Wired		TCB-TC41LE	VRF-RAV	Remote Sensor	Room temperature sensing in conditioned space	£69
		RB-RWS21E	RAS	Remote Controller	Hard-wired remote controller RAS cassette and ducted	£168
Central Controller Wired		BMS-CM1280TLE	VRF - RAV	Compliant Manager	Enables full control of up to 128 indoor units	£902
		BMS-LSV9E		BACnet Control	Intelligent server	£3,872
		BMS-SM1280ETLE		Smart Manager With Data Analyser	Smart manager with remote access via Web browser and data analysis features	£2,153
		BMS-WB2561PWE		Web Server/Gateway	Web server/gateway server connection of up to 256 indoor units	£3,946
		RBC-TBPTS		Touch Screen Controller	Touch Screen control for indoor units	£2,315
		RBC-TBPTSBC		Toshiba Smart Touch Back Box	Recessed housing for Smart Touch Screen Controller	£130
		BMS-CT1280E		Touch Screen Controller	Enables full control of up to 128 indoor units	£3,424
		TCB-SC643TLE		Central Controller	Enables full control of up to 64 indoor units	£771
		RBC-BPB1		Black Pear BACnet Controller	Controls up to 64 indoor units TB-50 TB-50D BACnet/IP	£3,601
		RBC-BPM1		Black Pear Modbus Controller	Controls up to 64 indoor units TM-50 TM-50D Modbus RTU via RS232/RS485 and Modbus/TCP	£3,601
		RBC-BPT1		Black Pear Trend Controller	Controls up to 64 indoor units TT-50 TT-50D Trend via Ethernet (requires an IQ3/4 outstation with spare memory)	£3,601
		TCB-CC163TLE2		Central Controller ON/OFF	Enables the switching ON and OFF by volt-free contact	£798
		TCB-EXS21TLE		Schedule Remote Controller	Schedule timer for use with Central Controller or standard controllers	£293
Indoor Interface		RBC-CK1	RAV	VFR- DI-SDI Conversion Kit	Kit required to convert VRF floor/chassis units to connect with DI-SDI Outdoors	£136
		RBC-CK2		VFR- DI-SDI Conversion Kit	Kit required to convert VRF tall floor cabinet units to connect with DI-SDI Outdoors	£136
		RBC-FDP3-AHU	VRF - RAV	BMS Interface	Interface to connect to a 0-10 V with AHU firmware	£520
		RBC-TS1		Monitoring & Control Interface	Interface to connect 0-10 V or resistance-based BMS	£313
		RBC-TXIO		Control Interface	Input/output interface for third-party equipment	£354
		RBC-RASNC	RAS	RAS Network Card (to Central Controller)	Interface to enable U3/U4 connection	£239
		RBC-FSEX15	VRF	Flow Selector Lead 15 m	Replacement lead kit for the flow selector	£112
		RBC-IS-IR-WIFI-1	RAS	WiFi Connection	IntesisHome WiFi Universal Controller	£220
		RB-N101S-G		WiFi Controller	WiFi adapter	£103
		RB-N102S-G		WiFi Controller	WiFi adapter and cable	£108
		RBC-IT4-PE	VRF - RAV	CN06 Connector Timer Interface	Interface to accept a 240 V input from a timer	£136
		RBC-SMF1		Fan Interface	Interface to provide an output to enable an external fan from the unit	£56
		RBC-SMIM2		Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£85
		RBC-SMIM3		Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£78
		RBC-SMIM4		Indicator Module ON/ OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£87

ACCESSORIES

Accessories - Controls: Indoor Interfaces, Indoor Interface Leads and Interfaces

Indoor Interface		TCB-LDS1	VRF - RAV	Refrigerant Leak Detector	Room leak detection concentration sensor with White Faceplate and remote 12 V transformer	£540
		RBC-RCS1		Refrigerant Leak Detector	Room leak detection concentration sensor with White Faceplate	£375
		TCB-LDS2		Refrigerant Leak Detector	Room leak detection concentration sensor with Stainless Steel Faceplate and remote 12 V transformer	£566
		RBC-RCS2		Refrigerant Leak Detector	Room leak detection concentration sensor with Stainless Steel Faceplate	£401
		TCB-LD12V		Refrigerant Leak Detector	Room leak detection transformer 12 V and cable kit (use with TCB-LDS1/TCB-LDS2)	£165
		RBC-TO-RC-WIFI-1		WiFi Connection	IntesisHome WiFi - Toshiba DI and VRF	£286
		RBC-VNL1	VN	CN705 Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£52
		TCB-IFGSM1E	RAV	CN61 GSM Control Interface	RAV DI-SDI allows ON/OFF control, operation status monitoring & alarm monitoring of A/C	£499
		TCB-KBCN60OPE	VRF - RAV	CN60 Operation Status	Operation status for indoor unit DI & VRF	£287
		TCB-PCNT20E		Network Adapter XY AI Network	Network adapter to connect a DI unit to the old AI Network	£184
Indoor Interface Lead		TCB-PCNT30TLE2	RAV	Network Adapter U3/U4 TCC-Link	Network adapter to connect a DI unit to The TCC link network	£85
		TCB-PX30MUE		Terminal Box (TCB-PCNT30TLE2)	Enclosure for the PCNT30TLE2 when used with all DI Cassette units	£63
		RBC-SMCN61	VRF - RAV	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£12
		RBC-SMCN61L		ON/OFF Lock Lead	Lead to lock the ON/OFF function	£12
		RBC-SMT1		CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£10
		BMS-IFDDO3E	VRF - RAV	Digital Input/Output Relay Interface	Interface for: Touch Screen Controller; Compliant Manager; Web Based Controller; Smart Manager; Power Meter device; 4 x Digital outputs & 8 Digital inputs	£973
		BMS-IFLSV4E		TCC-link & BACnet Control	Touch screen relay interface	£724
		BMS-IFWH5E		Power Meter Interface	Energy monitoring relay interface for up to 8 pulse power meters Touch Screen Controller; Compliant Manager; Web Based Controller; Smart Manager	£474
		RBC-DI1-PE		Digital Input/Output Interface	Interface to allow the connection of external equipment to the windows package	£358
		RBC-IT2-PE		Timer Interface	Interface to except a 240 V input from a timer for R407C equipment	£129
Interface		RBC-IT3-PE	RAS	Timer Interface	240 V Timer interface for Daiseikai units	£146
		TCB-IFLN642TLE	VRF - RAV	LonWorks Gateway	LonWorks Interface	£1,184
		TCB-IFMB641TLE		Modbus® Gateway	Connect the system to a Modbus Building Management System	£1,479

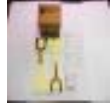
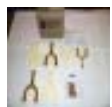
ACCESSORIES

Accessories - Controls: Interfaces, Outdoor Interfaces

Interface		TCB-PCIN3E	ESTIA	Output PCB	Interface provide an output for fault and run	£90
		TCB-PCMO3E		External Input PCB	Estia Interface to switch the unit ON or OFF	£64
		TCB-PCUC2E	VRF - RAV	Indoor Control Interface	Application Control Kit	£136
Outdoor Interface		TCB-PCDM4E	VRF - RAV	CN513 Power Peak Control	Header outdoor unit operation limit demand controller	£88
		TCB-IFCB-4E2		CN61 Remote ON/OFF	Interface for Remote ON/OFF	£242
		TCB-KBOS2E	RAV	Optional Connector Kit	RAV-SP804_1604# Peak-Cut Control/Night Operation/Compressor status output	£29
		TCB-PCDM4E	VRF	Power Peak -Cut Control	Power peak-cut control	£88
		TCB-PCIN4E		CN511 Operation Output Display	Operation/error output display, compressor operation control	£96
		TCB-PCMO4E		CN150-508-512 Operation Control	CN150 Operation mode control; CN508 Night set back control; CN508 Snowfall fan control; CN512 external master ON/OFF	£67
		TCB-PCOS1E2	RAV	CN510 Outdoor Control DI	Peak power cut and noise reduction. Output for compressor operation	£160

ACCESSORIES

Accessories - Piping Kits: Branch Joints, Headers and Y-Joints

Branch Joints		RBC-DTWP101E	RAV	DI 4-Way Branch Kit	Quad system RAV-SM224#-280#	£221
		RBC-TRP100E		DI-SDI 3-Way Branch Kit	Triple system RAV-SM160#-280#, RAV-SP160#	£208
		RBC-TWP101E		DI-SDI 2-Way Branch Kit	Twin system RAV-SM80#-280#, RAV-SP80#-160#	£162
		RBM-BT14E	VRF	VRF CDU 2-Pipe Modular Kit	SMMSe capacities below 26 hp	£135
		RBM-BT24E		VRF CDU 2-Pipe Modular Kit	SMMSe capacities 26 hp & above	£168
		RBM-BT14FE		VRF CDU 3-Pipe Modular Kit	SHRMe capacities below 26 hp	£136
		RBM-BT24FE		VRF CDU 3-Pipe Modular Kit	SHRMe capacities 26 hp & above	£169
Headers		RBM-HY1043E	VRF	VRF 2-Pipe 4-Way Header	SMMSe & MiNi SMMS capacities below 14.2 hp	£134
		RBM-HY2043E		VRF 2-Pipe 4-Way Header	SMMSe capacities 14.2 below 25.2 hp	£136
		RBM-HY1083E		VRF 2-Pipe 8-Way Header	SMMSe & MiNi SMMS capacities below 14.2 hp	£156
		RBM-HY2083E		VRF 2-Pipe 8-Way Header	SMMSe capacities 14.2 below 25.2 hp	£151
		RBM-HY1043FE		VRF 3-Pipe 4-Way Header	SHRMe capacities below 14.2 hp	£138
		RBM-HY2043FE		VRF 3-Pipe 4-Way Header	SHRMe capacities 14.2 below 25.2 hp	£138
		RBM-HY1083FE		VRF 3-Pipe 8-Way Header	SHRMe capacities below 14.2 hp	£226
		RBM-HY2083FE		VRF 3-Pipe 8-Way Header	SHRMe capacities 14.2 below 25.2 hp	£222
Y-Joints		RBM-BY55E	VRF	VRF 2-Pipe Y Joint	SMMSe & MiNi SMMS capacities below 6.4 hp	£61
		RBM-BY105E		VRF 2-Pipe Y Joint	SMMSe capacities 6.4 below 14.2 hp	£74
		RBM-BY205E		VRF 2-Pipe Y Joint	SMMSe capacities 14.2 below 25.2 hp	£122
		RBM-BY305E		VRF 2-Pipe Y Joint	SMMSe capacities above 25.2 hp	£163
		RBM-BY55FE		VRF 3-Pipe Y Joint	SHRMe capacities below 6.4 hp	£69
		RBM-BY105FE		VRF 3-Pipe Y Joint	SHRMe capacities 6.4 below 14.2 hp	£95
		RBM-BY205FE		VRF 3-Pipe Y Joint	SHRMe capacities 14.2 below 25.2 hp	£141
		RBM-BY305FE		VRF 3-Pipe Y Joint	SHRMe capacities 25.2 hp & above	£232

ACCESSORIES

Accessories - Miscellaneous: Spigots, Pumps, Heater Kits, Coil Coatings and Case Sections

Air Discharge		TCB-BC1602UE	VRF - RAV	Air Discharge Direction Kit	4-Way Cassette air outlet shield for 2- or 3-way blow	£61
		TCB-SF56C6BPE	RAV	Discharge Spigots 2 X 200 mm	RAV-SM40#_56#BT-E, MMD-AP007#-018#BHP-E	£99
		TCB-SF80C6BPE		Discharge Spigots 3 X 200 mm	RAV-SM80#BT-E, MMD-AP024#-030#BPH-E	£115
		TCB-SF160C6BPE		Discharge Spigots 4 X 200 mm	RAV-SM110#_160#BT-E, MMD-AP036#-056#BHP-E	£147
		RBC-VCK1		Vertical Conversion Kit	Standard Ducted indoor unit conversion to vertical mount	£467
Pumps		TCB-DP31CE	RAV	Air Discharge Direction Kit	Drain Pump for Ceiling Suspended Indoor 7 & 8 Series	£233
Air-to-Air Heat Exchanger		RBC-VNMC-PE	VN	Heater Kit Controller	Control for VN-M150/1000HE Heater Kits	£418
		RBC-VNMC-HE1		Heater Kit Controller	Control for VN-M1000/2000HE1 Heater Kits	£269
		RBC-VNMH1-PE		100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	£369
		RBC-VNMH2-PE		150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger	£369
		RBC-VNMH3-PE		200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger	£428
		RBC-VNMH4-PE		250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE1 Heat Exchanger	£428
Anti-Corrosion Coating		CACC-DF	RAV	Double Fan CDU Coil Anti-Corrosion Coating	RAV-SM160#, RAV-SP110#-160#, Mini SMMS	£437
		CACC-DF1		Double Fan CDU Coil Anti-Corrosion Coating	RAV-SM224#_280#	£578
		CACC-SF	RAV - RAS	Single Fan CDU Coil Anti-Corrosion Coating	RAS, RAV-SM56#-140#, RAV-SP40#-80#	£298
		CACC-VRF	VRF	VFR Module CDU Coil Anti-Corrosion Coating	8 hp-12 hp SMMSe, 8 hp-10 hp SHRMe	£787
		CACC-VRF1		VFR Module CDU Coil Anti-Corrosion Coating	14 hp-16 hp SMMSe, 12 hp-14 hp SHRMe	£875
		CACC-VRF2		VFR Module CDU Coil Anti-Corrosion Coating	18 hp-22 hp SMMSe, 16 hp-20 hp SHRMe	£1,188
Split Case/Sections		TTS-VRFS-ML	VRF	Split Case 2 Main Sections	VRF Split Case UK mainland	£3,844
		TTS-VRFS-OS		Split Case 2 Main Sections	VRF Split Case non-UK mainland	£5,113
		TTS-VRFS-MLF		Split Case Multiple Sections	VRF Split Sections UK mainland	£6,116
		TTS-VRFS-OSF		Split Case Multiple Sections	VRF Split Sections non-UK mainland	£7,226



TCUK Ltd is one of the leading suppliers of air conditioning equipment, systems and support services in the UK.

Originally, a joint venture between **Toshiba** and **Carrier** and more recently accompanied by **CIAT UK**, it consists of three strong brands, each with their own distinct and complementary offerings:

- **Carrier** is primarily known for its leadership in **chillers**, and its award-winning technology is trusted the world over for its outstanding performance, reliability and efficiency.
- **Toshiba** is preeminent in DX systems, with unmatched technical features and efficiency across its range of market-leading **VRF, split** and **multi-split** systems.
- **CIAT UK** completes the line-up with its comprehensive range of airside systems and **air handling units**, offering excellent quality at a competitive price point.

Leading the way in offering a complete range of **HVAC products**, all backed by outstanding technical support and underpinned by our core values: customer service, quality and environmental awareness.

**TOSHIBA**

Three Leading Brands - One Total HVAC Solution



A Leader in Cooling, Heating & Indoor Air Quality

About CIAT

CIAT is a leading manufacturer of high-performance air handling units, fan coil units, chillers, heat pumps, packaged rooftops and split systems.

Established more than 80 years ago CIAT has particular expertise in air movement with an extensive range of products to cover most building requirements.

CIAT's high-quality air conditioning, heating and air handling equipment is used in a wide range of applications around the world to deliver reliable, cost-effective comfort conditions for building occupants. Key end-user sectors include offices, shops, hospitals, leisure centres, educational establishments and industry.

Key Products

- Air Handling Units
- Fan Coil Units
- Packaged Rooftop Units
- Chillers
- Heat Pumps
- Split Systems



Key Services

- Product training
- Technical support
- Spares & accessories
- AHU flat-pack & site services
- AHU & packaged AC refurbishment
- Full commissioning service

Key Contacts

Sales & Design
sales@csd-ltd.net
01132 799 520

Technical Support
technical@ciat.utc.com

Service
service@ciat.utc.com

www.ciat.uk.com



Your Complete Integrated HVAC Solution

About Carrier

Since Willis Carrier developed the world's first modern air conditioning system in 1902, Carrier continues as the world's leader in pioneering high-technology HVAC systems. Our experts provide sustainable and energy-efficient solutions for offices, hotels, residential, data centres and process cooling.

Carrier is a pioneer in application of low GWP refrigerants and installed the first HFO screw chiller in Switzerland in 2016.

Our products include Air- and Water-cooled chillers and heat pumps, Centrifugal (up to 10MW) and Absorption chillers, as well as Fan Coil Units, Air Handling Units (up to 15 m³/s), and Rooftop units. The new award-winning Carrier Aquaforce Vision 30KAV variable-speed twin screw chiller with Carrier-designed compressor, 6th generation Flying Bird® Fan, latest generation of Novation® micro-channel heat exchangers with a unique W coil, and exceeds Eco-design with SEER up to 5.5.

Key Products

- Scroll & Screw Chillers
- Centrifugal Chillers
- Fan Coil Units
- Air Handling Units
- Rooftop Units
- HVAC Controls



Key Services

- System design advice
- Chiller System Optimiser
- Building Load Assessments
- Chiller remote management
- Plant System Manager
- Full commissioning service
- Maintenance
- Emergency repair

Key Contacts

Phil Addy Associates Ltd



Phil Addy – 07802 536155
philaddy@philaddy.co.uk

Paul Watson – 07947 254145
pwatson@philaddy.co.uk

Sales Enquiries
salesenquiries@carrier.utc.com
0808 250 7695

www.carrieraircon.co.uk

For All Your Air Conditioning Needs

Cool Solutions now have a trade counter offering everything that you would need to install, commission and service air conditioning systems. We stock all sizes and lengths of copper, insulation, various different styles and makes of condensate pumps, different types of containment, cable, refrigerants, electrical accessories, fixings, supports, chemical cleaners, vacuum pumps, reclaim units and tools.

Why not call in at our trade counter, have a coffee and a chat with our staff, see how we can help you.

We frequently hold promotions and events at the trade counter, these are advertised on our web site. Why not register on the home page of the web site so that you can be notified of any offers.





Sales

Phil Addy
Sales Director
tel: 07802 536155
e-mail: phil@csd-ltd.net

Andrew Keegan
Sales Manager
tel: 07877 330282
e-mail: andrew@csd-ltd.net

Steve Turner
Sales Engineer
tel: 07710 878772
e-mail: steve@csd-ltd.net

Daniel Stephenson
Sales Engineer
tel: 07545 830718
e-mail: daniel@csd-ltd.net

Technical

Mark McKee
Technical Director
tel: 07947 830279
e-mail: mark@csd-ltd.net

Matthew Worsman
Technical Manager
tel: 07950 534100
e-mail: matthew@csd-ltd.net

Toshibal Technical (24 hour)
tel: 0870 8430333 (Opt 7)

Graham Thorpe
Technical Engineer
e-mail: graham@csd-ltd.net

Projects

Steve Pickles
Project Engineer
tel: 07730 585444
e-mail: steve.pickles@csd-ltd.net

Alex Bennett
Project Engineer
e-mail: alex.bennett@csd-ltd.net

Accounts

Catriona Newby
e-mail: catriona@csd-ltd.net

Gemma Keech
e-mail: gemma@csd-ltd.net

Cool Solutions Distribution Ltd
Units 9 & 10 Station Way
Leeds, West Yorkshire, LS12 3HQ
tel: 01132 799520
fax: 01132 793514
e-mail: sales@csd-ltd.net

www.csd-ltd.net