TOSHIBA



RESIDENTIAL (INCLUDING A2W) PRODUCT SPECIFICATION

ENERGY EFFICIENT

CARBON NEUTRAL

INNOVATIVE

CUSTOMER CENTRIC

COMMITMENT TO BETTER AIR SOLUTIONS



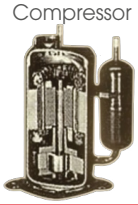
Toshiba Air Conditioning supports Carrier's 2030 Environmental, Social, and Governance (ESG) goals, including the goal to reduce its customers' carbon footprint by more than 1 gigaton. We help to address climate change by going further than just products and beyond their basic functions, to create reliable and safe solutions that can interact with each other and with users. With the forward-thinking solutions by Toshiba Air Conditioning, we help deliver healthy, safe and productive indoor environments.

CHOOSE THE EXPERT OF INSPIRED TECHNOLOGIES

Since Toshiba Air Conditioning developed and mass-produced the world's-first inverter split air conditioners for commercial and residential applications in 1980 and 1981, which is a historically significant milestone recognized by the Institute of Electrical and Electronics Engineers (IEEE), inverter technology has been widely used throughout the world to deliver comfort with high energy efficiency.

Inverter technology enables the unit to continuously regulate its cooling and heating capacity by altering the speed of the compressor using a variable-frequency drive to control the speed of the motor. This innovation helps generate outstanding comfort and efficiency levels.

1981 — Inverter Driven Compressor



1988 — Twin Rotary Residential Use



1993 — DC Twin Rotary



1998 — R410A Residential Use



2004 — Dual Stage Compressor



2020 — Triple Rotary Compressor





Our commitment to world-class **efficiency**, versatile **scalability** and leading **quality** means we create cutting-edge technologies to find the most forward-thinking solutions possible for your world.
Toshiba Air Conditioning is an innovative provider of comprehensive air conditioning solutions with world-class reliability.

Top-class energy efficiency

- High volume triple rotary compressor
- Twin rotary compressors
- All climates from -30°C (DAISEIKAI™ 9) to 54°C (MiNi SMMS-e Middle East range)
- Top class A+++ air to water heating solutions with ESTIA™ R32
- Refrigerants with lower environmental impact
- Optimal temperature control solutions with precision

Scalable solutions

Toshiba Air Conditioning develops cutting-edge technologies that benefit people by offering the ideal combination of comfort and products that help to protect the environment for residential, light commercial and large building applications.

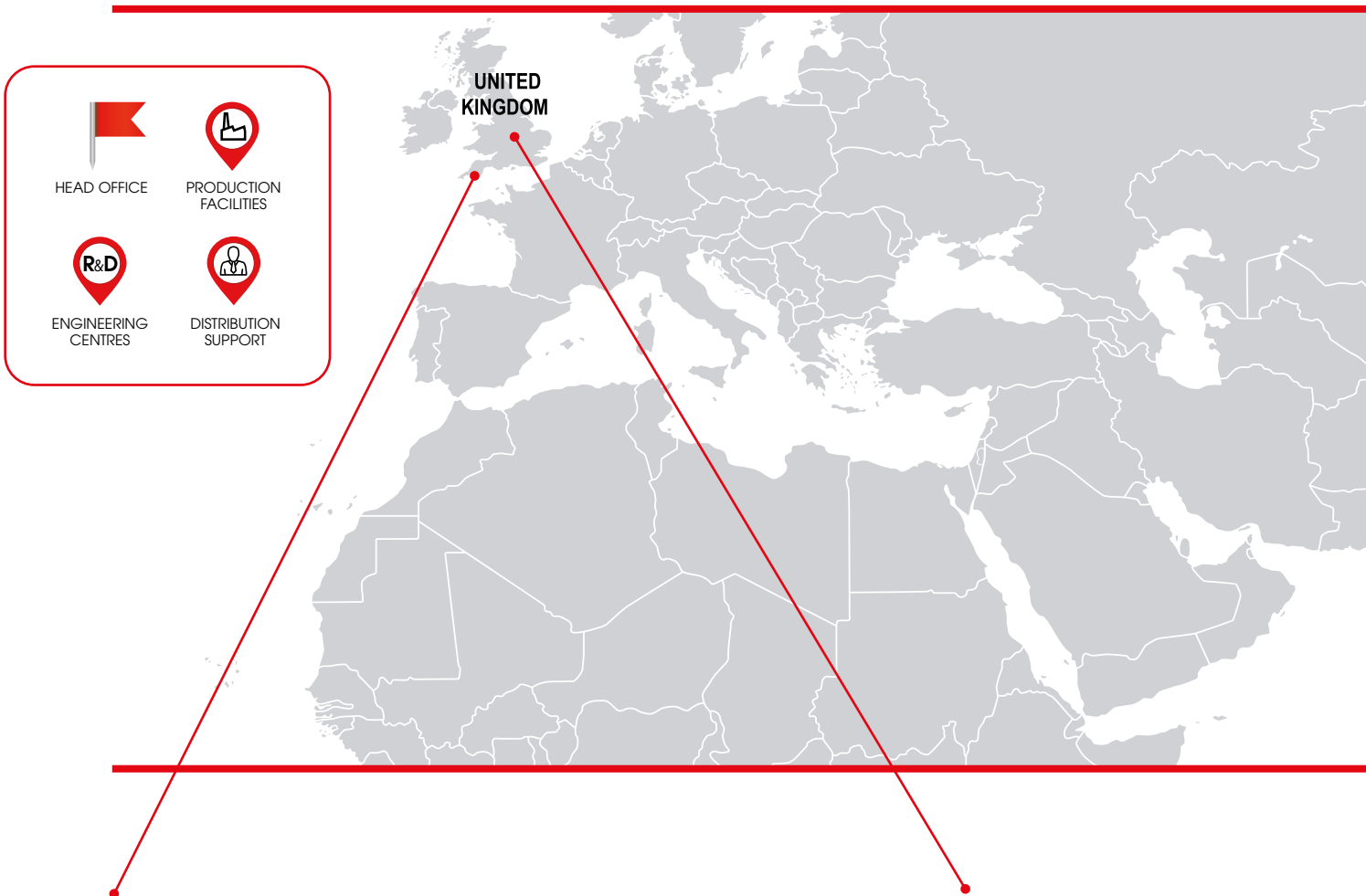
Superior manufacturing quality

Toshiba Air Conditioning's innovations provide comprehensive building air conditioning solutions which have been subject to strict evaluation testing to offer world-class reliability.
Third party institute certifications for quality, safety and performance, guaranteed (TÜV, Eurovent, WEEE, RoHS, REACH, Intertek, Keymark).

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | OHSAS 18001 Occupational Health & Safety Management

TAILORED TO MEET CHALLENGES

Toshiba Air Conditioning, with heat pump technology at its core, contributes to people's well-being while respecting the environment. For decades, Toshiba Air Conditioning has been receiving prestigious awards for its significant achievements in air conditioning. This demonstrates the innovative spirit of Toshiba Air Conditioning, a relentless drive to improve its products and systems.



PLYMOUTH, UNITED KINGDOM



TCEU - DISTRIBUTION SUPPORT
and
TCEU - ENGINEERING CENTRE

STOCKPORT, UNITED KINGDOM



CSUK

TRAINING CENTRE OF EXCELLENCE

PATHUMTHANI, THAILAND



CTC - ENGINEERING CENTRE
and
CTC - PRODUCTION FACILITIES

HANGZHOU, CHINA



CAC - PRODUCTION FACILITIES



TSUYAMA-CITY, JAPAN



CJC - PRODUCTION FACILITIES

FUJI-CITY, JAPAN



CJC - PRODUCTION FACILITIES
and
CJC - ENGINEERING CENTRE

KAWASAKI-CITY, JAPAN



CJC -
HEAD OFFICE

LEADING THE WAY TO EXCELLENCE

Products designed and engineered to perform

Toshiba Air Conditioning strengths center on in-house research and development of advanced technologies and core components. Its global research activities are managed and integrated to ensure all research sites collaborate to provide innovative solutions to customers across the world.

Forward-thinking technologies to support building decarbonisation

Toshiba Air Conditioning combines technological development with consideration for future generations, resulting in a range of extremely energy-efficient air conditioners, helping to reduce greenhouse gas emissions at their source. Its continuous research into the development of inverter technology has provided remarkable results, both with regards to meeting the required comfort levels and continually reducing the system's energy consumption.


Quality production


Outdoor units production


Indoor units production

Entire production process certified by international quality assurance institutes

All products provide high operating efficiency and cooling, as they participate in the Eurovent programme. This acts as a guarantee for customers and users that the products will operate in accordance with the design specifications and that the data published is grounded by evidence. Toshiba Air Conditioning participates in the Eurovent Certification Performance programme for AC1, AC2 & VRF.
Check ongoing validity of certificate: www.eurovent-certificate.com
For Estia certification, refer to Keymark heat pump certification program: www.heatpumpkeymark.com

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

011-1W0341 → 0348

In line with European standards

To improve its environmental responsibility, Toshiba Air Conditioning offers products that meet the following European standards:

EN 14511
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling. Test methods.

EN 14825
Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling. Testing and rating with part loads and calculation of seasonal performance.

EN 16147
Heat pumps with electrically driven compressors. Testing, performance rating and requirements for marking domestic hot water units.



Japan - Fuji Operations R&D Centre e-THIRD building

THE WORLD IS TARGETING ZERO EMISSIONS

Today the process of cooling and heating buildings is not the sole challenge. Global warming is an issue that affects all of us and Toshiba Air Conditioning is prioritizing the decarbonisation of buildings as a top priority.

The R32 based solutions proposed by Toshiba Air Conditioning help achieve this goal, whilst also preserving comfort and cost-effectiveness.

A range in line with our goal to reduce our customers' carbon footprint

Toshiba Air Conditioning is offering a complete range of air-to-air products dedicated to cooling and heating in comfort applications. With system solutions from 2 to 67kW, we can address residential, light commercial and business markets requirements.

Residential

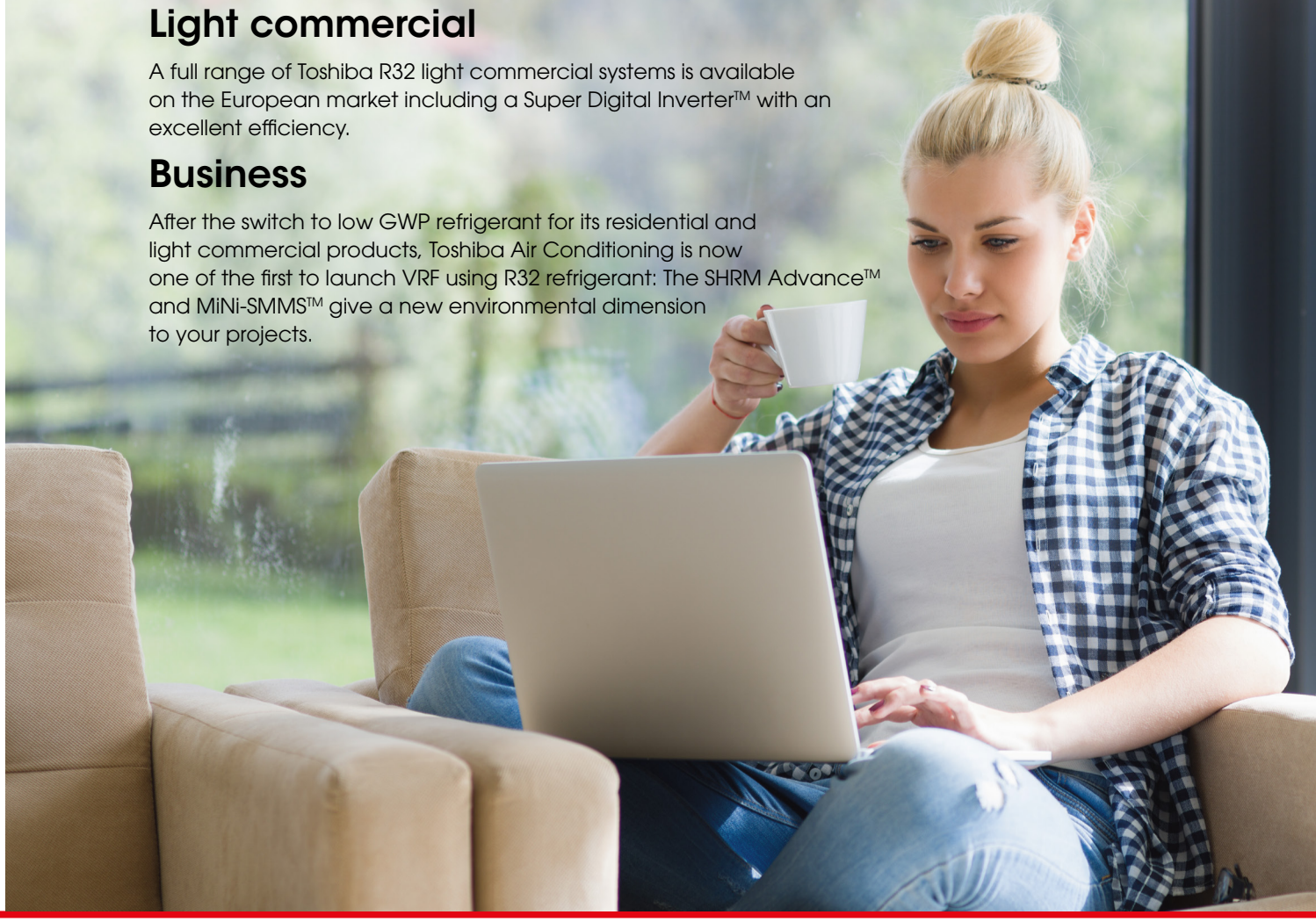
HAORI™ is a truly elegant air conditioner, featuring a stylish textile fabric cover that uses Toshiba inverter and compressor technology with R32 refrigerant, offering A+++ performance and year-round comfort.

Light commercial

A full range of Toshiba R32 light commercial systems is available on the European market including a Super Digital Inverter™ with an excellent efficiency.

Business

After the switch to low GWP refrigerant for its residential and light commercial products, Toshiba Air Conditioning is now one of the first to launch VRF using R32 refrigerant: The SHRM Advance™ and MiNi-SMMS™ give a new environmental dimension to your projects.





The right choice…

The fundamental design and control of Toshiba Air Conditioning systems remains unchanged with the R32 refrigerant.
Toshiba Air Conditioning 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 our customers are used to.



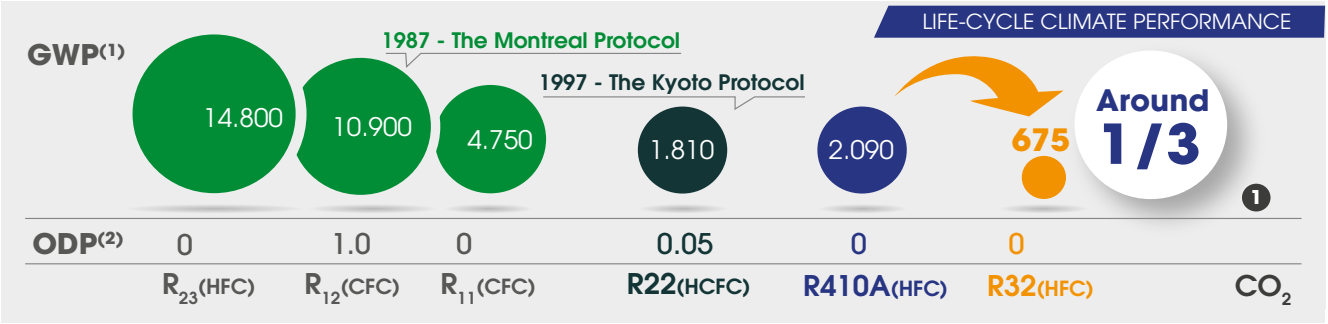
- Large capacity
- Low noise
- Wide operating range
- DLC treatment
- Less refrigerant needed
- Liquid injection technology

Toshiba Twin rotary compressor with new liquid injection technology, your best ally. Centre piece of the system, the Toshiba super-efficient twin rotary compressor has been engineered to match R32 refrigerant requirements.

…to the benefit of all

Design to help protect the environment

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

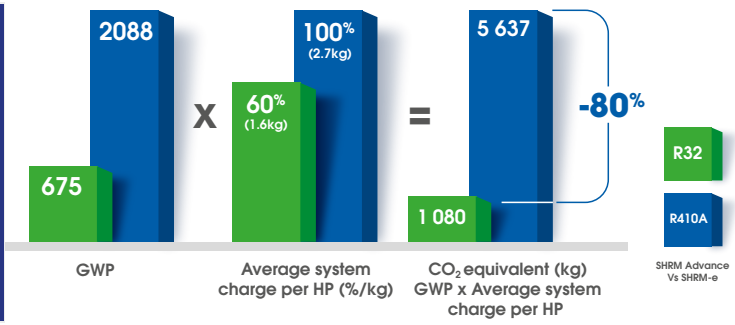


(1) Global Warming Potential
(2) Ozone Depletion Potential

Installer friendly

- Working pressures for R410A and R32 refrigerants 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 equipments is the same except for the refrigerant recovery pump and the reclaim cylinder
- Toshiba flare joints certified ISO14903

Low GWP with R32 refrigerant and 40% less refrigerant charge in SHRM Advance have led to an 80% reduction in the total CO_2 equivalent of the system, in comparison with legacy model using R410A refrigerant.

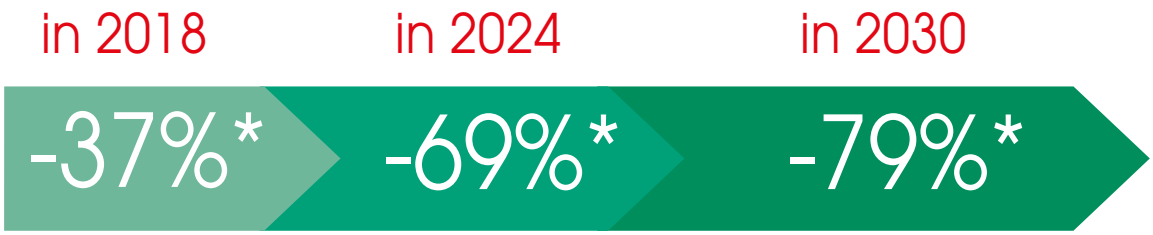


F-GAS COMPLIANCE

TOSHIBA AIR CONDITIONING RESPONDS TO REGULATORY EVOLUTIONS

The European F-gas regulation (517/2014) has been in force since 1 January 2015. It aims to protect the environment by reducing greenhouse gas emissions and progressively deploying new rules related to the use of Hydrofluorocarbons refrigerants (HFCs) in heating and cooling systems. This regulation introduces an ambitious gradual reduction of HFC quantities that are put on the market in the EU by HFC producers and distributors (in equivalent tons of CO2), with an initial reduction of 37% from 2018 and a final objective of cutting quantities by 79% by 2030.

This regulation has driven manufacturers to turn to refrigerants with lower Global Warming Potential (GWP) and Toshiba air conditioning is no exception; efforts have been made to pursue lower GWP refrigerant while the reduction of refrigerant charge volume has been explored.



*HFC consumption compared to equivalent tons of CO_2

Your safety first and foremost

Based on the requirements of the F-gas regulation, only certified installers can carry on Dx system installations. The implementation of systems using HFC requires thus some specific precautions such as a strict control of the leakages and a periodic checking of the refrigerant charge.

For equipment containing			Leak checks without leak detection	Leak checks with leak detection
Between 5 and 50 tonnes CO_2 equivalent	2.38 and 23.8kg R410A	7.41 and 74.1kg R32	Every 12 months	Every 24 months
Between 50 and 500 tonnes CO_2 equivalent	23.8 and 238kg R32	74.1 and 740kg R32	Every 6 months	Every 12 months
More than 500 tonnes CO_2 equivalent	More than 238kg R410A	More than 740kg R32	Every 3 months	Every 6 months

ECODESIGN & ENERGY LABELLING

The European 2030 climate and energy framework for improving energy efficiency will have a significant impact on the heating, ventilation and air conditioning sectors.
Today, buildings are responsible for the largest energy consumption, with HVAC systems being the most energy-intensive of all. The HVAC sector is now committed to manufacturing energy-efficient products for its clients to favour sustainable development.

ECODESIGN

In the European Union, the Ecodesign Directive encourages HVAC manufacturers to design products taking into consideration their environmental impact throughout entire product lifecycle.
It establishes a framework for the setting of mandatory energy efficiency requirements for all energy-related products (ERPs).

Ecodesign and Energy Labelling for Air-to-Water heat pumps

Air-to-Water heat pumps have been subject by the Ecodesign (< 400kW) and Energy Labelling (< 70kW) regulations since 26 September 2015. Heat pumps launched before this date are not concerned and all must conform to display the CE mark.

For more information visit
www.ecodesign.toshiba-airconditioning.eu

New energy efficiency metric: Seasonal efficiency (SEER and SCOP)

The Seasonal Coefficient of Performance is a new European parameter to rate heat pumps in terms of energy efficiency. It is an update to the Coefficient of Performance, which previously recorded the power consumed to power produced ration in heating and cooling modes for one operating point.

Unlike the EER/COP, the SEER/SCOP takes into account performances during cooler seasons because it indicates temperature variations by including numerous realistic measurement points. When combined, this results in a more accurate energy classification.

SEER/SCOP compared to EER/COP

TEMPERATURE		CAPACITY (KW)		AUXILIARY MODES (KWH)		HOURS	
EER COP	SEER SCOP	EER COP	SEER SCOP	EER COP	SEER SCOP	EER COP	SEER SCOP
One temperature requirement	Numerous rating temperatures (range of average temperatures)	Full load	Partial load + Full load	Auxiliary power modes are not considered	Incl. consumption auxiliary modes: - Standby mode - Off mode - Thermostat off, etc.	N/A	Number of hours at each air temperature (in hours)

SEASONAL COEFFICIENT OF PERFORMANCE CALCULATION

This is the ratio between annual heating/cooling demand and annual energy input over an entire heating/cooling season.

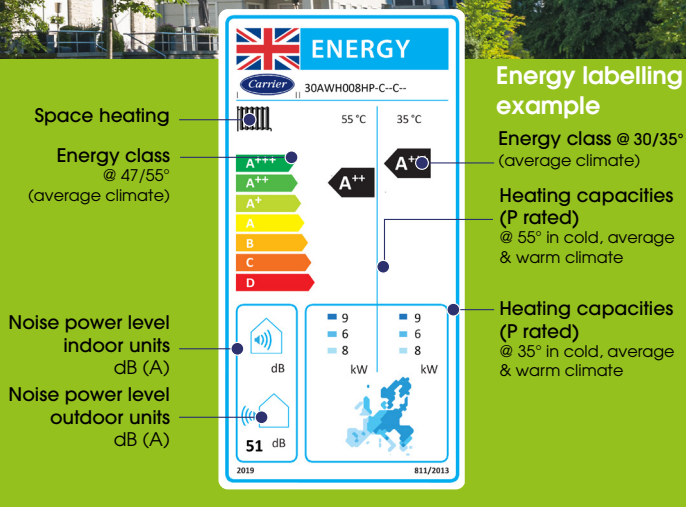
$$SCOP = \frac{\text{ANNUAL ENERGY INPUT}}{\text{ANNUAL HEATING DEMAND}}$$

$$SEER = \frac{\text{ANNUAL COOLING DEMAND}}{\text{ANNUAL ENERGY INPUT}}$$



Energy Labelling

The Energy Labelling regulation was created to offer end users information about a product's energy efficiency rating.
European Energy Labelling regulations also assign ratings from G to A++ based on their energy efficiency, inciting better ratings in the sector and providing clients with clearer information.



Designed for the future

Toshiba Air Conditioning is committed to designing products and solutions with increasingly lower environmental impacts. This is subsequently reducing indirect CO_2 emissions generated by electricity consumption. Toshiba Air Conditioning long-standing commitment to sustainable development is ahead of schedule for the European climate and energy package requirements for 2030.

All Toshiba Air Conditioning products sold today in Europe are fully compliant with the latest Ecodesign directives.

Lot 1: Air-to-Water heating systems up to 400kW including air-to-water heat pumps
>>> ESTIA™ SPLIT.

Lot 2: Water heaters and hot water storage tanks. Including tanks >>> ESTIA DHW-HP.

Lot 6: Residential and non residential ventilation including air treatment VN units.

Lot 10: Air-to-Air heat pumps up to 12kW
>>>> SEYIA™, SHORAI™ Edge, HAORI™, DAISEIKAI™ 9, Console, Digital Inverter, Super Digital Inverter.

Lot 11: Electric motors from 125W to 500kW including ventilation fans.

Lot 21: Heat pumps above 12kW including residential, light commercial systems and VRF >>> Digital Inverter™, Super Digital Inverter™, Big Digital Inverter™, MiNi SMMS-e™, SMMS-e™, SHRM-e™, SMMS-u™ and SHRM Advance™.

Toshiba Air Conditioning dedicated public website provides energy labels with detailed performances for all systems.

For more information visit
www.ecodesign.toshiba-airconditioning.eu



TO **GUIDE YOU**

- A++ IN HEATING & COOLING
- OUTSTANDING PERFORMANCE
- INTERACTIVE
- CAPACITY
- OPERATION RANGE
- D.H.W
- LOW SOUND LEVEL
- HIGH AIR FLOW
- TWIN ROTARY COMPRESSOR
- LIGHT WEIGHT
- NFC COMPATIBLE
- SPIGOT COMPATIBLE
- EASY INSTALLATION
- COMPACT
- Built in WI-FI
- INFRARED CONTROLLER
- ENHANCED FILTRATION
- SELF CLEANING
- ADJUSTABLE HEIGHT
- ENERGY SAVING
- AIR DISTRIBUTION
- FLEXIBLE PIPING
- REDUCED FOOTPRINT
- STATIC PRESSURE
- INDIVIDUAL HOUSING
- REFURBISHMENT
- SHOPS
- RETAIL
- BUSINESSES
- ADMINISTRATION
- HOTELS
- HEALTHCARE
- OFFICES

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High-Wall Inverter Split System - SHORAI Edge - Black/White	B0*G3KVSG(B)-E	26 - 36
High-Wall Inverter Split System - HAORI	B1*N4KVRG-E1	37 - 41
High-Wall Inverter Split System - DAISEIKAI 10 - Wood/White	B1*S4KV*G-E	47 - 51
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SEIYA



SEIYA: RAS - B05S4KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.
- Compatible with WI-FI with adapter in the box as standard.



Retail Price (interactive icons):

UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B05S4KVG-E**
Outdoor Unit		**RAS-**	05E2AVG-E
Nominal	Cooling Capacity	kW	1.5
	Heating Capacity	kW	2.0
	EER/COP	W/W	4.17/4.26
UK	Cooling Total/Sensible	kW	1.47/1.22
	Heating	kW	1.18
Cooling EN14825	Range Min. - Max.	kW	0.75 - 2.00
	Power Input	kW	0.36
	Pdesign	kW	1.5
	SEER/Energy Efficiency Class		6.90/A++
	Seasonal Energy Consumption	kWh/a	76
Heating EN14825	Range Min. - Max.	kW	0.8 - 3.00
	Power Input	kW	0.47
	Pdesign	kW	1.6
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	487

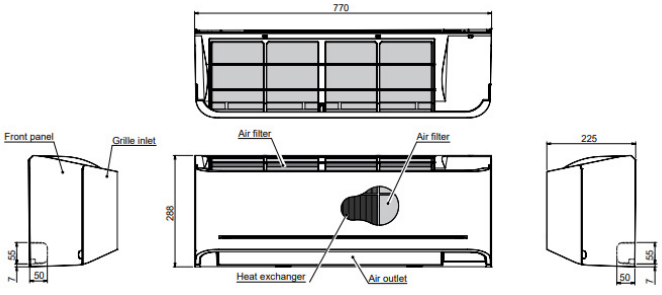
Indoor Data			
Air Flow	High - Low	l/s	134 - 53
	High - Low	m3/h	480 - 190
Sound	Pressure High - Low	dB(A)	37 - 19
	Power High - Low	dB(A)	50
Unit	Height x Width x Depth	mm	288 x 770 x 225
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SEIYA: RAS - B07S4KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
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Retail Price (interactive icons):

UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B07S4KVG-E**
Outdoor Unit		**RAS-**	07E2AVG-E
Nominal	Cooling Capacity	kW	2.0
	Heating Capacity	kW	2.5
	EER/COP	W/W	3.77/3.91
UK	Cooling Total/Sensible	kW	1.95/1.57
	Heating	kW	1.60
Cooling EN14825	Range Min. - Max.	kW	0.76 - 2.60
	Power Input	kW	0.53
	Pdesign	kW	2.0
	SEER/Energy Efficiency Class		6.20/A++
	Seasonal Energy Consumption	kWh/a	113
Heating EN14825	Range Min. - Max.	kW	0.82 - 3.30
	Power Input	kW	0.64
	Pdesign	kW	2.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	609

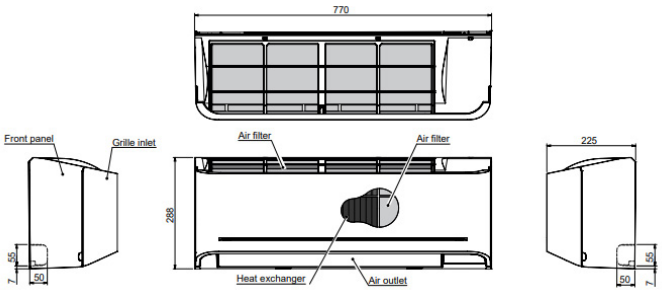
Indoor Data			
Air Flow	High - Low	l/s	140 - 55
	High - Low	m3/h	500 - 200
Sound	Pressure High - Low	dB(A)	38 - 19
	Power High - Low	dB(A)	51
Unit	Height x Width x Depth	mm	288 x 770 x 225
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
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SEIYA: RAS - B10S4KVG-E

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UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B10S4KVG-E**
Outdoor Unit		**RAS-**	10E2AVG-E
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	3.57/3.72
UK	Cooling Total/Sensible	kW	2.44/1.93
	Heating	kW	2.03
Cooling EN14825	Range Min. - Max.	kW	0.80 - 3.00
	Power Input	kW	0.70
	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	125
Heating EN14825	Range Min. - Max.	kW	0.95 - 3.90
	Power Input	kW	0.86
	Pdesign	kW	2.4
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	730

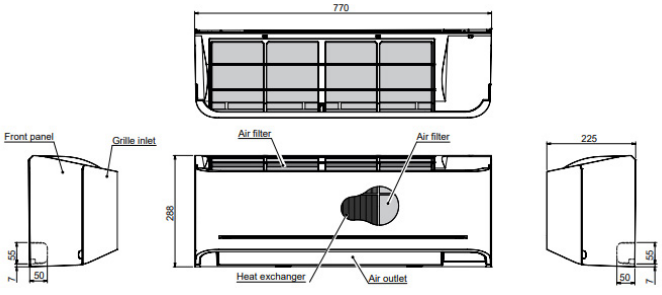
Indoor Data			
Air Flow	High - Low	l/s	144 - 64
	High - Low	m3/h	510 - 230
Sound	Pressure High - Low	dB(A)	39 - 20
	Power High - Low	dB(A)	52
Unit	Height x Width x Depth	mm	288 x 770 x 225
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
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UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B13S4KVG-E**
Outdoor Unit		**RAS-**	13E2AVG-E
Nominal	Cooling Capacity	kW	3.3
	Heating Capacity	kW	3.6
	EER/COP	W/W	3.30/4.14
UK	Cooling Total/Sensible	kW	3.22/2.49
	Heating	kW	2.20
Cooling EN14825	Range Min. - Max.	kW	1.20 - 3.60
	Power Input	kW	1.00
	Pdesign	kW	3.3
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	165
Heating EN14825	Range Min. - Max.	kW	0.97 - 4.50
	Power Input	kW	0.87
	Pdesign	kW	2.7
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	822

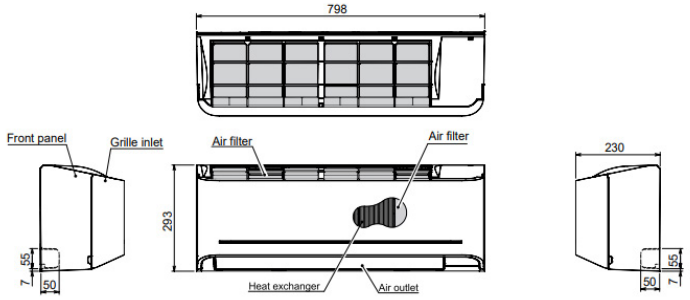
Indoor Data			
Air Flow	High - Low	l/s	208 - 92
	High - Low	m3/h	750 - 330
Sound	Pressure High - Low	dB(A)	42 - 21
	Power High - Low	dB(A)	54
Unit	Height x Width x Depth	mm	293 x 798 x 230
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SEIYA: RAS - B16S4KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.
- Compatible with WI-FI with adapter in the box as standard.



Retail Price (interactive icons):

UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B16S4KVG-E**
Outdoor Unit		**RAS-**	16E2AVG-E
Nominal	Cooling Capacity	kW	4.2
	Heating Capacity	kW	5.0
	EER/COP	W/W	3.31/3.73
UK	Cooling Total/Sensible	kW	4.49/3.36
	Heating	kW	3.33
Cooling EN14825	Range Min. - Max.	kW	1.40 - 4.70
	Power Input	kW	1.27
	Pdesign	kW	4.2
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	210
Heating EN14825	Range Min. - Max.	kW	1.30 - 6.00
	Power Input	kW	1.34
	Pdesign	kW	3.6
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1095

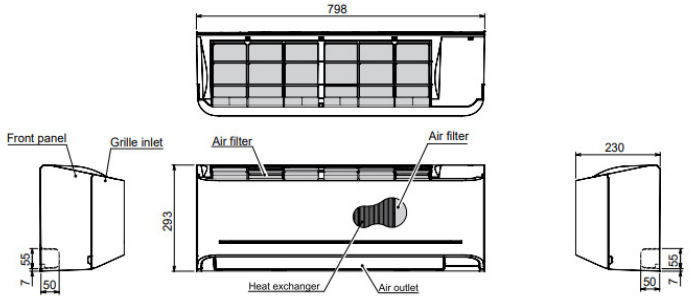
Indoor Data			
Air Flow	High - Low	l/s	212 - 92
	High - Low	m3/h	760 - 330
Sound	Pressure High - Low	dB(A)	43 - 22
	Power High - Low	dB(A)	56
Unit	Height x Width x Depth	mm	293 x 798 x 230
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SEIYA: RAS - B18S4KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.
- Compatible with WI-FI with adapter in the box as standard.



Retail Price (interactive icons):

UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B18S4KVG-E**
Outdoor Unit		**RAS-**	18E2AVG-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.4
	EER/COP	W/W	3.33/3.60
UK	Cooling Total/Sensible	kW	4.88/3.57
	Heating	kW	3.34
Cooling EN14825	Range Min. - Max.	kW	1.45 - 5.50
	Power Input	kW	1.50
	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	250
Heating EN14825	Range Min. - Max.	kW	1.35 - 6.00
	Power Input	kW	1.50
	Pdesign	kW	3.8
	SCOP/Energy Efficiency Class		4.40/A+
	Seasonal Energy Consumption	kWh/a	1209

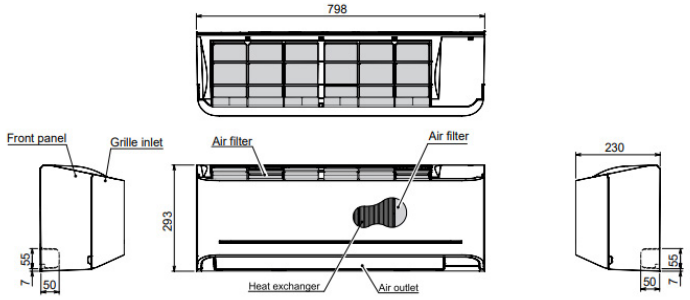
Indoor Data			
Air Flow	High - Low	l/s	233 - 133
	High - Low	m3/h	840 - 480
Sound	Pressure High - Low	dB(A)	48 - 26
	Power High - Low	dB(A)	60
Unit	Height x Width x Depth	mm	293 x 798 x 230
	Weight	kg	9
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SEIYA: RAS - B24S4KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.
- Compatible with WI-FI with adapter in the box as standard.



Retail Price (interactive icons):

UK £ ROI €

Hi - Res Image

ENTRY TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B24S4KVG-E**
Outdoor Unit		**RAS-**	24E2AVG-E
Nominal	Cooling Capacity	kW	6.5
	Heating Capacity	kW	7.0
	EER/COP	W/W	2.89/3.33
UK	Cooling Total/Sensible	kW	6.35/4.40
	Heating	kW	4.31
Cooling EN14825	Range Min. - Max.	kW	1.7 - 7.2
	Power Input	kW	2.25
	Pdesign	kW	6.5
	SEER/Energy Efficiency Class		6.90/A++
	Seasonal Energy Consumption	kWh/a	330
Heating EN14825	Range Min. - Max.	kW	1.5 - 8.1
	Power Input	kW	2.10
	Pdesign	kW	5.4
	SCOP/Energy Efficiency Class		4.30/A+
	Seasonal Energy Consumption	kWh/a	1757

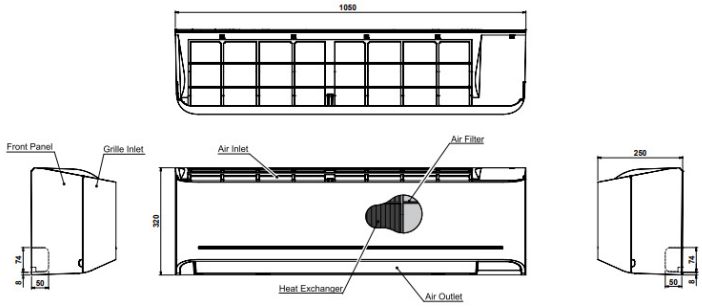
Indoor Data			
Air Flow	High - Low	l/s	298 - 183
	High - Low	m3/h	1070 - 660
Sound	Pressure High - Low	dB(A)	48 - 29
	Power High - Low	dB(A)	61
Unit	Height x Width x Depth	mm	320 x 1050 x 250
	Weight	kg	15
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TG01NE

Accessories	
RB-RXS33-E	Option Remote Controller (Weekly Timer)
RB-RXS34-E	Option Black remote

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Owners Manual



SEIYA: RAS - 05E2AVG-E - 10E2AVG-E

- On demand defrost.
- Silent CDU noise reduction function.
- Power supply to indoor or outdoor unit.
- Energy Class A++/A++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

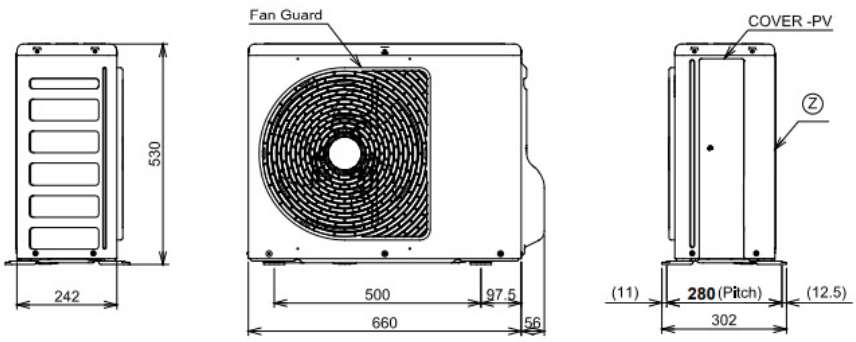
ENTRY TIER PRODUCT RANGE					
Performance					
Outdoor Unit		**RAS-**	**05E2AVG-E**	**07E2AVG-E**	**10E2AVG-E**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating		-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	1690 - 470	1800 - 500	1800 - 500
Sound	Pressure High Cooling/Heating/Silent	dB(A)	47 / 48 / 42	47 / 49 / 42	47 / 49 / 43
	Power High Cooling/Heating/Silent	dB(A)	60 / 61 / 55	60 / 62 / 55	60 / 62 / 56
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240
	Weight	kg	21	21	22
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"	3/8" - 1/4"	3/8" - 1/4"
	Min.-Max. Length	m	2-15	2-15	2-15
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.34/15	0.34/15	0.49/15
	Additional Charge	g/m	0	0	0
Run Current	Maximum	Amps	5.00	5.40	7.20
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	220-240/1/50-16	220-240/1/50-16

Related Items - **05E2AVG-E:**
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **07E2AVG-E**
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **10E2AVG-E**
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



SEIYA: RAS - 13E2AVG-E - 16E2AVG-E

- On demand defrost.
- Silent CDU noise reduction function.
- Power supply to indoor or outdoor unit.
- Energy Class A++/A++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

ENTRY TIER PRODUCT RANGE				
Performance				
Outdoor Unit		**RAS-**	**13E2AVG-E**	**16E2AVG-E**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46
	Heating		-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	1980 - 550	2160 - 600
Sound	Pressure High Cooling/Heating/Silent	dB(A)	48 / 49 / 43	50 / 51 / 43
	Power High Cooling/Heating/Silent	dB(A)	61 / 62 / 56	63 / 64 / 59
Unit	Height x Width x Depth	mm	530 x 660 x 240	550 x 780 x 290
	Weight	kg	22	30
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"	1/2" - 1/4"
	Min.-Max. Length	m	2-15	2-20
	Maximum Height Difference	m	±12	±12
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.54/15	0.68/15
	Additional Charge	g/m	0	20
Run Current	Maximum	Amps	7.40	9.00
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

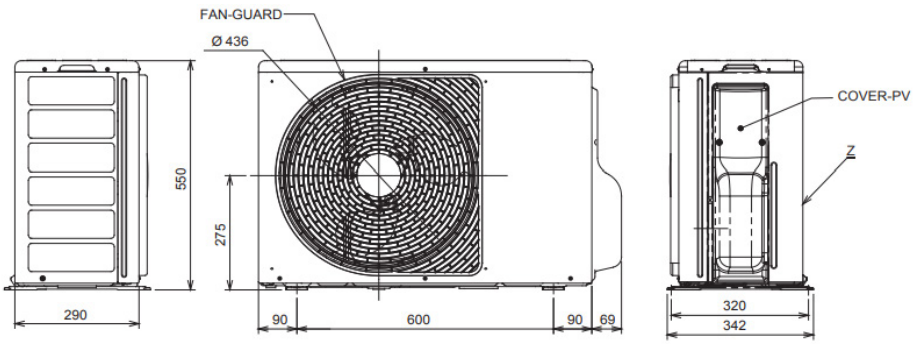
Related Items - **13E2AVG-E**

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **16E2AVG:**

- Full specification
- Dimensional drawing
- Wiring diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



SEIYA: RAS - 18E2AVG-E - 24E2AVG-E

- On demand defrost.
- Silent CDU noise reduction function.
- Power supply to indoor or outdoor unit.
- Energy Class A++/A++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.

Retail Price (interactive icons):

UK ROI



Hi - Res Image

ENTRY TIER PRODUCT RANGE				
Performance				
Outdoor Unit		**RAS-**	**18E2AVG-E**	**24E2AVG-E**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46
	Heating		-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	2160 - 600	2220 - 617
Sound	Pressure High Cooling/Heating/Silent	dB(A)	50 / 51 / 44	54 / 54 / 49
	Power High Cooling/Heating/Silent	dB(A)	63 / 64 / 59	67 / 67 / 62
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290
	Weight	kg	34	38
Pipe Connection	Flare Connections (gas-liquid)	inch	1/2" - 1/4"	1/2" - 1/4"
	Min.-Max. Length	m	2-20	2-20
	Maximum Height Difference	m	±12	±12
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.93/15	1.18/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	9.25	10.60
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

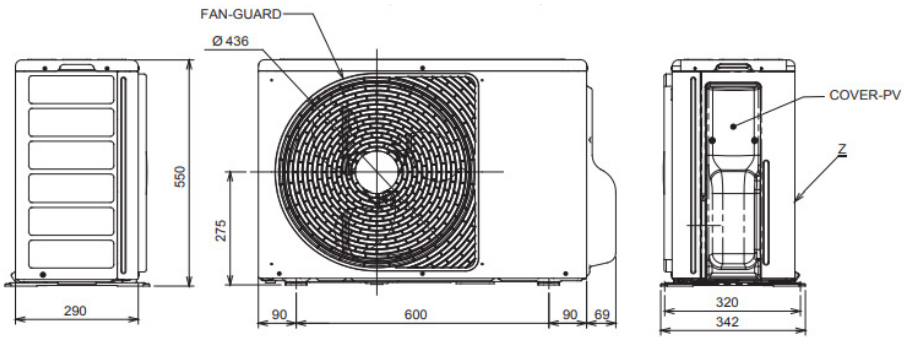
Related Items - **18E2AVG-E**:

- Full Specification
- Dimensional drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **24E2AVG-E**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



SHORAI EDGE



SHORAI EDGE: RAS - B10G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

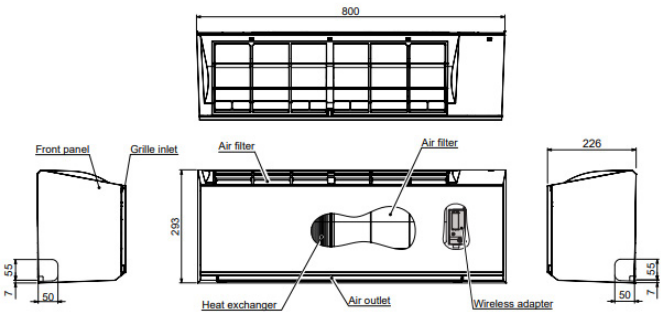
Performance			
Indoor Unit	Black	RAS-	B10G3KVSGB-E
Indoor Unit	White	RAS-	B10G3KVSG-E
Outdoor Unit		RAS-	10J2AVSG-E1
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	4.63/4.57
UK	Cooling Total/Sensible	kW	3.42/2.74
	Heating	kW	2.61
Cooling EN14825	Range Min. - Max.	kW	0.89 - 3.20
	Power Input	kW	0.54
	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	102
Heating EN14825	Range Min. - Max.	kW	0.90 - 4.80
	Power Input	kW	0.70
	Pdesign	kW	2.5
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	686

Indoor Data			
Air Flow	High - Low	l/s	183 - 86
	High - Low	m3/h	660 - 310
Sound	Pressure High - Low	dB(A)	40 - 19
	Power High - Low	dB(A)	55 - 34
Unit	Height x Width x Depth	mm	293x800x226
	Weight	mm	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - B13G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

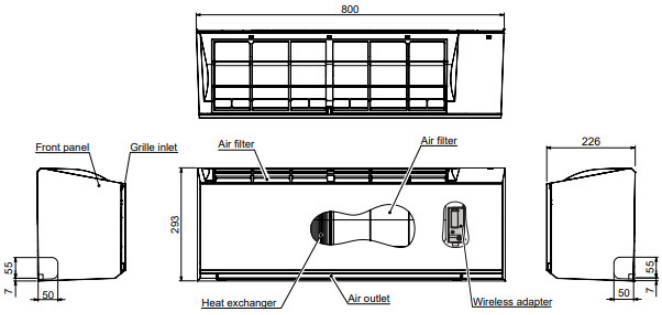
Performance			
Indoor Unit	Black	RAS-	B13G3KVSGB-E
Indoor Unit	White	RAS-	B13G3KVSG-E
Outdoor Unit		RAS-	13J2AVSG-E1
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.2
	EER/COP	W/W	3.89/3.89
UK	Cooling Total/Sensible	kW	4.49/3.56
	Heating	kW	3.59
Cooling EN14825	Range Min. - Max.	kW	1.00 - 4.10
	Power Input	kW	0.90
	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	142
Heating EN14825	Range Min. - Max.	kW	1.00 - 5.30
	Power Input	kW	1.08
	Pdesign	kW	3.2
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	878

Indoor Data			
Air Flow	High - Low	l/s	203 - 95
	High - Low	m3/h	730 - 340
Sound	Pressure High - Low	dB(A)	43 - 19
	Power High - Low	dB(A)	58 - 34
Unit	Height x Width x Depth	mm	293x800x226
	Weight	mm	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - B16G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

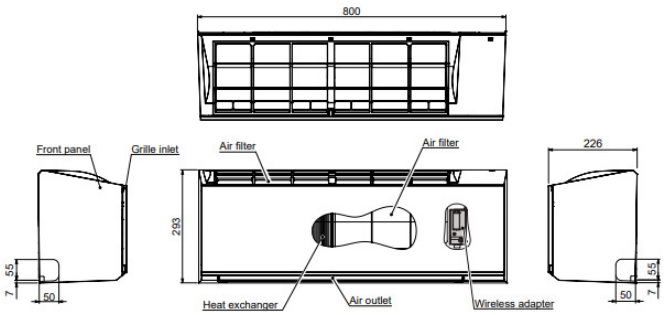
Performance			
Indoor Unit	**Black**	**RAS-**	**B16G3KVSGB-E**
Indoor Unit	**White**	**RAS-**	**B16G3KVSG-E**
Outdoor Unit		**RAS-**	16J2AVSG-E1
Nominal	Cooling Capacity	kW	4.6
	Heating Capacity	kW	5.5
	EER/COP	W/W	3.41/3.62
UK	Cooling Total/Sensible	kW	4.88/3.57
	Heating	kW	3.83
Cooling EN14825	Range Min. - Max.	kW	1.20 - 5.30
	Power Input	kW	1.35
	Pdesign	kW	4.6
	SEER/Energy Efficiency Class		7.80/A++
	Seasonal Energy Consumption	kWh/a	206
Heating EN14825	Range Min. - Max.	kW	1.10 - 6.50
	Power Input	kW	1.52
	Pdesign	kW	4.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1217

Indoor Data			
Air Flow	High - Low	l/s	211 - 100
	High - Low	m3/h	760 - 360
Sound	Pressure High - Low	dB(A)	44 - 22
	Power High - Low	dB(A)	59 - 37
Unit	Height x Width x Depth	mm	293x800x226
	Weight	mm	10
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - B18G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

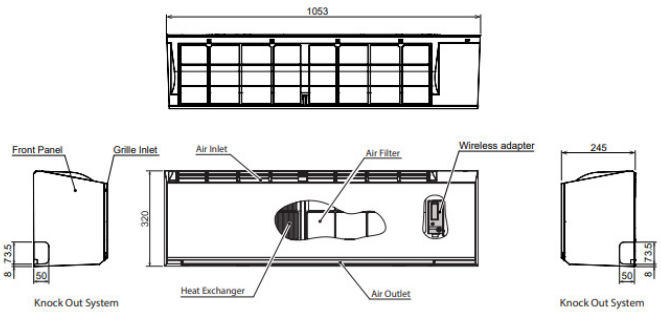
Performance			
Indoor Unit	Black	RAS-	B18G3KVSGB-E
Indoor Unit	White	RAS-	B18G3KVSG-E
Outdoor Unit		RAS-	18J2AVSG-E1
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	6.0
	EER/COP	W/W	3.52/3.77
UK	Cooling Total/Sensible	kW	5.96/4.24
	Heating	kW	3.98
Cooling EN14825	Range Min. - Max.	kW	1.20 - 6.00
	Power Input	kW	1.42
	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		7.30/A++
	Seasonal Energy Consumption	kWh/a	242
Heating EN14825	Range Min. - Max.	kW	1.10 - 6.50
	Power Input	kW	1.59
	Pdesign	kW	4.3
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1309

Indoor Data			
Air Flow	High - Low	l/s	275 - 158
	High - Low	m3/h	990 - 570
Sound	Pressure High - Low	dB(A)	44 - 26
	Power High - Low	dB(A)	59 - 41
Unit	Height x Width x Depth	mm	320x1053x245
	Weight	mm	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - B22G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

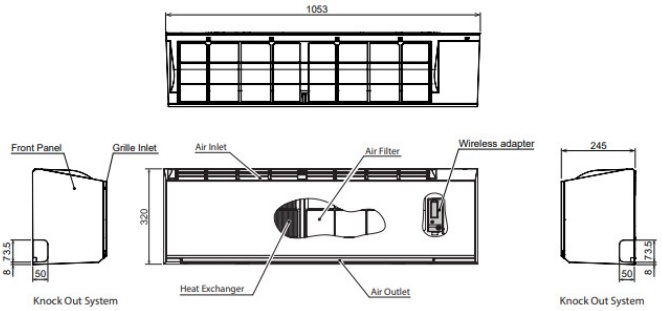
Performance			
Indoor Unit	Black	RAS-	B22G3KVSGB-E
Indoor Unit	White	RAS-	B22G3KVSG-E
Outdoor Unit		RAS-	22J2AVSG-E1
Nominal	Cooling Capacity	kW	6.1
	Heating Capacity	kW	7.0
	EER/COP	W/W	3.07/3.72
UK	Cooling Total/Sensible	kW	6.84/4.71
	Heating	kW	5.27
Cooling EN14825	Range Min. - Max.	kW	1.39 - 6.70
	Power Input	kW	1.99
	Pdesign	kW	6.1
	SEER/Energy Efficiency Class		7.30/A++
	Seasonal Energy Consumption	kWh/a	292
Heating EN14825	Range Min. - Max.	kW	1.15 - 7.50
	Power Input	kW	1.88
	Pdesign	kW	4.7
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1430

Indoor Data			
Air Flow	High - Low	l/s	300 - 191
	High - Low	m3/h	1080 - 690
Sound	Pressure High - Low	dB(A)	46 - 27
	Power High - Low	dB(A)	61 - 42
Unit	Height x Width x Depth	mm	320x1053x245
	Weight	mm	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - B24G3KVSG(B)-E

- A+++ in both heating and cooling.
- Power supply to indoor or outdoor unit.
- Features the Ultra-Pure filter (PM2.5 94%).
- HADA care flow function for high indoor air quality.
- WI-FI embedded with advanced energy monitoring .

Retail Price (interactive icons):

UK £ ROI € BLACK

UK £ ROI € WHITE





Hi - Res Image

MID TIER PRODUCT RANGE

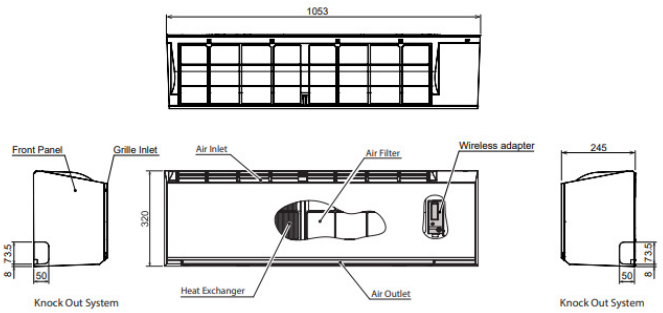
Performance			
Indoor Unit	Black	RAS-	B24G3KVSGB-E
Indoor Unit	White	RAS-	B24G3KVSG-E
Outdoor Unit		RAS-	24J2AVSG-E1
Nominal	Cooling Capacity	kW	7.0
	Heating Capacity	kW	8.0
	EER/COP	W/W	3.11/3.40
UK	Cooling Total/Sensible	kW	6.84/4.71
	Heating	kW	5.27
Cooling EN14825	Range Min. - Max.	kW	1.70 - 7.70
	Power Input	kW	2.25
	Pdesign	kW	7.0
	SEER/Energy Efficiency Class		6.30/A++
	Seasonal Energy Consumption	kWh/a	389
Heating EN14825	Range Min. - Max.	kW	1.70 - 8.80
	Power Input	kW	2.35
	Pdesign	kW	6.3
	SCOP/Energy Efficiency Class		4.10/A+
	Seasonal Energy Consumption	kWh/a	2149

Indoor Data			
Air Flow	High - Low	l/s	316 - 200
	High - Low	m3/h	1140 - 720
Sound	Pressure High - Low	dB(A)	48 - 28
	Power High - Low	dB(A)	63 - 43
Unit	Height x Width x Depth	mm	320x1053x245
	Weight	mm	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller		White	WH-UA06UE
Remote controller		Black	WH-UA04UE

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Installation Manual
- Owners Manual



SHORAI EDGE: RAS - 10J2AVSG-E1 - 13J2AVSG-E1

- Power supply to indoor or outdoor unit.
- Silent CDU noise reduction function (6dBA).
- WI-FI compatible with advanced energy monitoring.
- Energy Class A+++/A+++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

MID TIER PRODUCT RANGE				
Performance				
Outdoor Unit		**RAS-**	**10J2AVSG-E1**	**13J2AVSG-E1**
Operating Range	Cooling	C°	-15~46	-15~46
	Heating		-15~24	-15~24
Air Flow	High	m3/h - l/s	1890 - 524	1950 - 540
Sound	Pressure High Cooling/Heating/Silent	dB(A)	44 - 46	46 - 48
	Power High Cooling/Heating/Silent	dB(A)	57 - 59	59 - 61
Unit	Height x Width x Depth	mm	550x780x290	550x780x290
	Weight	kg	26	30
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"	3/8" - 1/4"
	Min.-Max. Length	m	2-20	2-20
	Maximum Height Difference	m	±12	±12
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.55/15	0.8/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	5.35	7.55
Power Cable	Outdoor to Indoor		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

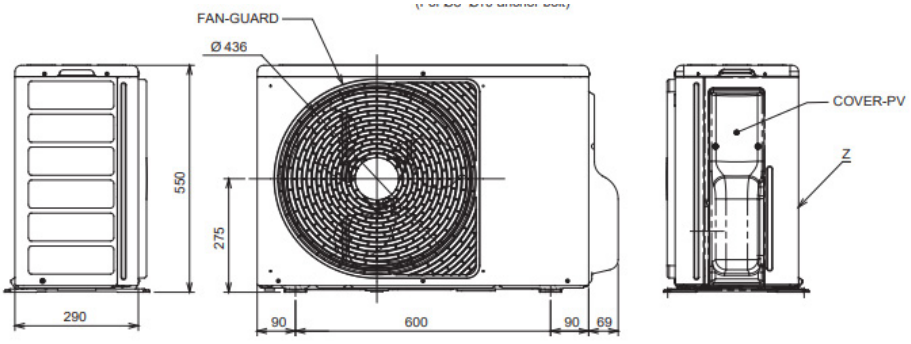
Related Items - **10J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **13J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



SHORAI EDGE: RAS - 16J2AVSG-E1 - 18J2AVSG-E1

- Power supply to indoor or outdoor unit.
- Silent CDU noise reduction function (6dBA).
- WI-FI compatible with advanced energy monitoring.
- Energy Class A+++/A+++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.

Retail Price (interactive icons):

UK £ ROI €



Hi - Res Image

MID TIER PRODUCT RANGE				
Performance				
Outdoor Unit		**RAS-**	**16J2AVSG-E1**	**18J2AVSG-E1**
Operating Range	Cooling	C°	-15~46	-15~46
	Heating		-15~24	-15~24
Air Flow	High	m3/h - l/s	2040 - 566	2076 - 576
Sound	Pressure High Cooling/Heating/Silent	dB(A)	48 - 50	48 - 50
	Power High Cooling/Heating/Silent	dB(A)	61 - 63	63 - 63
Unit	Height x Width x Depth	mm	550x780x290	550x780x290
	Weight	kg	33	34
Pipe Connection	Flare Connections (gas-liquid)	inch	1/2" - 1/4"	1/2" - 1/4"
	Min.-Max. Length	m	2-20	2-20
	Maximum Height Difference	m	±12	±12
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.8/15	1.1/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	8.35	9.11
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

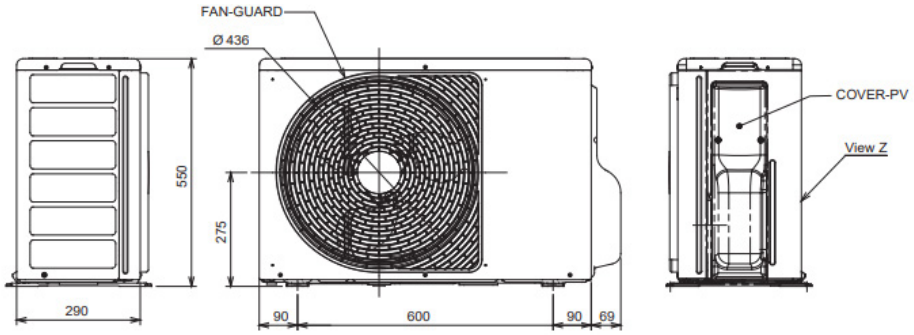
Related Items - **16J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **18J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



SHORAI EDGE: RAS - 22J2AVSG-E1 - 24J2AVSG-E1

- Power supply to indoor or outdoor unit.
- Silent CDU noise reduction function (6dBA).
- WI-FI compatible with advanced energy monitoring.
- Energy Class A+++/A+++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

MID TIER PRODUCT RANGE

Performance				
Outdoor Unit		**RAS-**	**22J2AVSG-E1**	**24J2AVSG-E1**
Operating Range	Cooling	C°	-15~46	-15~46
	Heating		-15~24	-15~24
Air Flow	High	m3/h - l/s	2184 - 607	2916 - 810
Sound	Pressure High Cooling/Heating/Silent	dB(A)	49 - 51	50 - 53
	Power High Cooling/Heating/Silent	dB(A)	62 - 64	63 - 66
Unit	Height x Width x Depth	mm	550x780x290	630x800x300
	Weight	kg	34	42
Pipe Connection	Flare Connections (gas-liquid)	inch	1/2" - 1/4"	1/2" - 1/4"
	Min.-Max. Length	m	2-20	2-25
	Maximum Height Difference	m	±12	±15
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	1.1/15	1.14/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	11.16	11.16
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

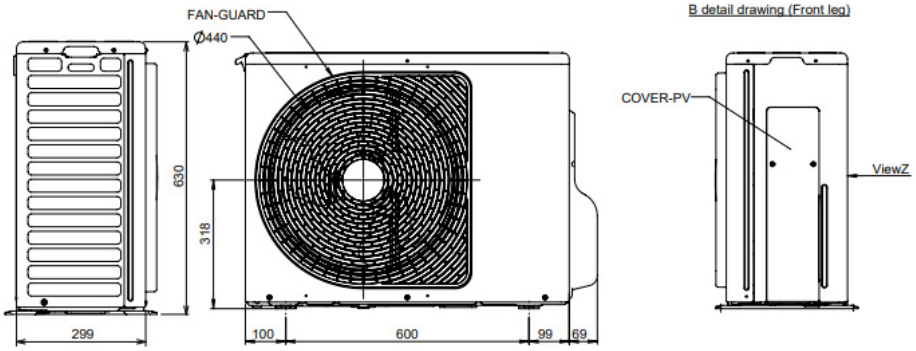
Related Items - **22J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **24J2AVSG-E1**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



HAORI



HAORI: RAS - B10N4KVRG-E1

- Ultra quiet systems less than 19dB(A).
- Power supply to indoor or outdoor unit.
- Factory-integrated WI-FI with Energy monitoring.
- Fabrics with infinite possibilities , let your style be your guide.
- Toshiba Plasma Ionizer catches and neutralizes the contaminated particles.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

HIGH TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B10N4KVRG-E1**
Outdoor Unit		**RAS-**	10J2AVSG-E1
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	4.63/4.32
UK	Cooling Total/Sensible	kW	2.44/1.93
	Heating	kW	1.86
Cooling EN14825	Range Min. - Max.	kW	0.89 - 3.20
	Power Input	kW	0.54
	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		8.50/A+++
	Seasonal Energy Consumption	kWh/a	102
Heating EN14825	Range Min. - Max.	kW	0.90 - 4.70
	Power Input	kW	0.74
	Pdesign	kW	2.5
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	684

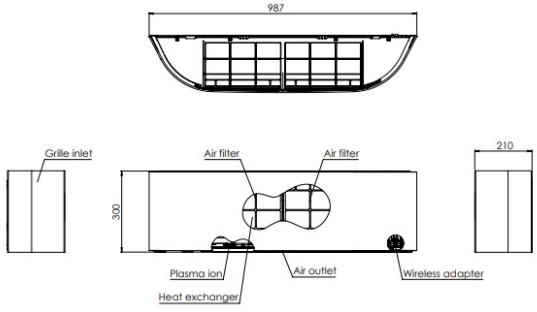
Indoor Data			
Air Flow	High - Low	l/s	169 - 83
	High - Low	m3/h	610 - 300
Sound	Pressure High - Low	dB(A)	41 - 19
	Power High - Low	dB(A)	55 - 34
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-UA01UE

Accessories			
RB-I4101-E	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
RB-I4102-E	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
RB-I4103-E	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
RB-I4104-E	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
RB-I4105-E	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
RB-I4106-E	Fabric Cover Kit (supplied loose)	Fabric Emerald Blue	

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



HAORI: RAS - B13N4KVRG-E

- Ultra quiet systems less than 19dB(A).
- Power supply to indoor or outdoor unit.
- Factory-integrated WI-FI with Energy monitoring.
- Fabrics with infinite possibilities , let your style be your guide.
- Toshiba Plasma Ionizer catches and neutralizes the contaminated particles.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

HIGH TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B13N4KVRG-E**
Outdoor Unit		**RAS-**	13J2AVSG-E1
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.2
	EER/COP	W/W	4.38/3.89
UK	Cooling Total/Sensible	kW	3.42/2.64
	Heating	kW	2.54
Cooling EN14825	Range Min. - Max.	kW	1.00 - 4.10
	Power Input	kW	0.80
	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	142
Heating EN14825	Range Min. - Max.	kW	1.00 - 5.30
	Power Input	kW	1.08
	Pdesign	kW	3.2
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	876

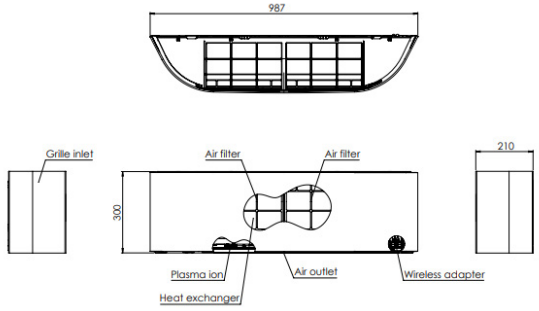
Indoor Data			
Air Flow	High - Low	l/s	189 - 89
	High - Low	m3/h	680 - 320
Sound	Pressure High - Low	dB(A)	43 - 19
	Power High - Low	dB(A)	57 - 34
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-UA01UE

Accessories			
RB-I4101-E	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
RB-I4102-E	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
RB-I4103-E	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
RB-I4104-E	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
RB-I4105-E	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
RB-I4106-E	Fabric Cover Kit (supplied loose)	Fabric Emerald Blue	

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



HAORI: RAS - B16N4KVRG-E

- Ultra quiet systems less than 19dB(A).
- Power supply to indoor or outdoor unit.
- Factory-integrated WI-FI with Energy monitoring.
- Fabrics with infinite possibilities , let your style be your guide.
- Toshiba Plasma Ionizer catches and neutralizes the contaminated particles.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

HIGH TIER PRODUCT RANGE			
Performance			
Indoor Unit		**RAS-**	**B16N4KVRG-E**
Outdoor Unit		**RAS-**	16J2AVSG-E1
Nominal	Cooling Capacity	kW	4.6
	Heating Capacity	kW	5.5
	EER/COP	W/W	3.41/3.62
UK	Cooling Total/Sensible	kW	4.49/3.42
	Heating	kW	3.37
Cooling EN14825	Range Min. - Max.	kW	1.20 - 5.30
	Power Input	kW	1.35
	Pdesign	kW	4.6
	SEER/Energy Efficiency Class		7.80/A++
	Seasonal Energy Consumption	kWh/a	206
Heating EN14825	Range Min. - Max.	kW	1.10 - 6.30
	Power Input	kW	1.52
	Pdesign	kW	4.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1214

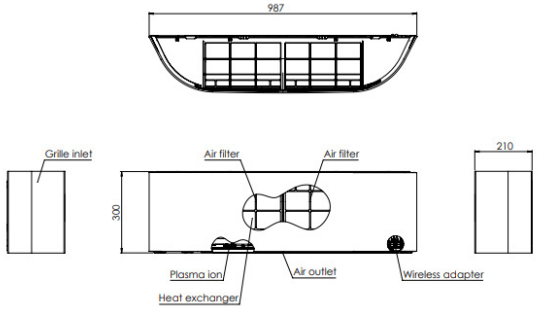
Indoor Data			
Air Flow	High - Low	l/s	202 - 94
	High - Low	m3/h	730 - 340
Sound	Pressure High - Low	dB(A)	45 - 22
	Power High - Low	dB(A)	59 - 37
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	12
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-UA01UE

Accessories			
RB-I4101-E	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
RB-I4102-E	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
RB-I4103-E	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
RB-I4104-E	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
RB-I4105-E	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
RB-I4106-E	Fabric Cover Kit (supplied loose)	Fabric Emerald Blue	

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



HAORI: RAS - 10J2AVSG-E1 - 16J2AVSG-E1

- Power supply to indoor or outdoor unit.
- Outdoor unit silent operation down to 39 dB(A).
- WI-FI compatible with advanced energy monitoring.
- Energy Class A+++/A+++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

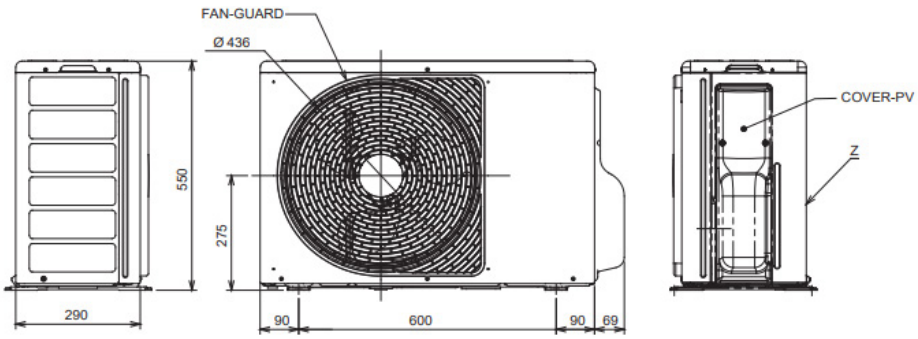
HIGH TIER PRODUCT RANGE					
Performance					
Outdoor Unit		**RAS-**	**10J2AVSG-E1**	**13J2AVSG-E1**	**16J2AVSG-E1**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating		-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	1890 - 524	1950 - 540	2040 - 566
Sound	Pressure High Cooling/Heating/Silent	dB(A)	44 - 46	46 - 48	48 - 50
	Power High Cooling/Heating/Silent	dB(A)	59 - 59	59 - 61	61 - 63
Unit	Height x Width x Depth	mm	550x780x290	550x780x290	550x780x290
	Weight	kg	26	30	33
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	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.55/15	0.8/15	0.8/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	Amps	3.25	4.80	6.75
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

Related Items - **10J2AVSG-E1**:
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **13J2AVSG-E1**:
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **16J2AVSG-E1**:
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



DAISEIKAI 10



DAISEIKAI 10: RAS - B10S4KV*G-E

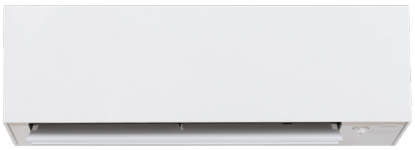
- Power supply to indoor or outdoor unit.
- WI-FI built in with advanced energy monitoring.
- New smart sensing with thermo mapping technology.
- Provides outstanding performance even down to temperatures of -30°C.
- Daiseikai 10 epitomises reliability and durability with sustainability at its core.

Retail Price (interactive icons):

UK £ ROI € WOOD

UK £ ROI € WHITE





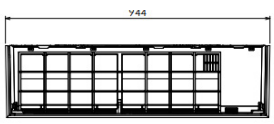
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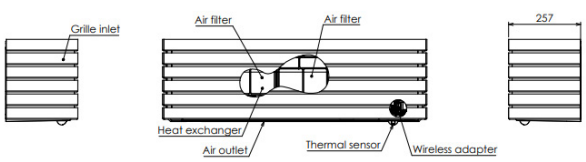
ELITE TIER PRODUCT RANGE			
Performance			
Indoor Unit	**White**	**RAS-**	**B10S4KVPG-E**
Indoor Unit	**Wood**	**RAS-**	**B10S4KVDG-E**
Outdoor Unit		**RAS-**	10S4AVPG-E
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	5.32/5.33
UK	Cooling Total/Sensible	kW	2.44/2.03
	Heating	kW	1.90
Cooling EN14825	Range Min. - Max.	kW	0.60 - 3.50
	Power Input	kW	0.47
	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		10.70/A+++
	Seasonal Energy Consumption	kWh/a	82
Heating EN14825	Range Min. - Max.	kW	0.65 - 5.80
	Power Input	kW	0.60
	Pdesign	kW	3.0
	SCOP/Energy Efficiency Class		5.30/A+++
	Seasonal Energy Consumption	kWh/a	792

Indoor Data			
Air Flow	High - Low	l/s	208 - 83
	High - Low	m3/h	750 - 300
Sound	Pressure High - Low	dB(A)	41 - 25
	Power High - Low	dB(A)	55 - 40
Unit	Height x Width x Depth (White)	mm	293 x 930 x 255
	Height x Width x Depth (Wood)	mm	293 x 940 x 257
	Weight (White/Wood)	kg	14/16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller	**White**		WH-UD02UE
Remote controller	**Wood**		WH-UD01UE

Related Items - **WOOD**:

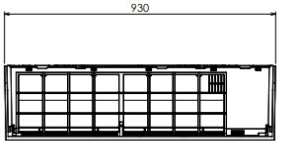
- Full Specification
- Dimensional Drawing
- Wiring Diagram

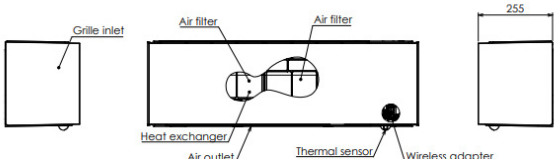




Related Items - **WHITE**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Installation Manual





DAISEIKAI 10: RAS - B13S4KVPG-E

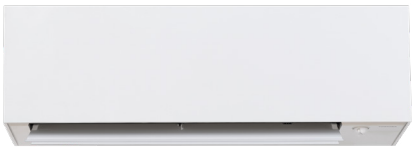
- Power supply to indoor or outdoor unit.
- WI-FI built in with advanced energy monitoring.
- New smart sensing with thermo mapping technology.
- Provides outstanding performance even down to temperatures of -30°C.
- Daiseikai 10 epitomises reliability and durability with sustainability at its core.

Retail Price (interactive icons):

UK £ ROI € WOOD

UK £ ROI € WHITE





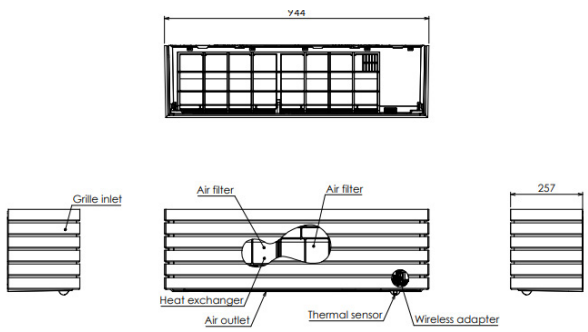
Hi - Res Image

ELITE TIER PRODUCT RANGE			
Performance			
Indoor Unit	**White**	**RAS-**	**B13S4KVPG-E**
Indoor Unit	**Wood**	**RAS-**	**B13S4KVDG-E**
Outdoor Unit		**RAS-**	13S4AVPG-E
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.0
	EER/COP	W/W	4.38/5.00
UK	Cooling Total/Sensible	kW	3.42/2.74
	Heating	kW	2.51
Cooling EN14825	Range Min. - Max.	kW	0.90 - 4.20
	Power Input	kW	0.80
	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		9.70/A+++
	Seasonal Energy Consumption	kWh/a	126
Heating EN14825	Range Min. - Max.	kW	0.70 - 6.30
	Power Input	kW	.80
	Pdesign	kW	3.6
	SCOP/Energy Efficiency Class		5.20/A+++
	Seasonal Energy Consumption	kWh/a	969

Indoor Data			
Air Flow	High - Low	l/s	222 - 91
	High - Low	m3/h	800 - 330
Sound	Pressure High - Low	dB(A)	42 - 26
	Power High - Low	dB(A)	57 - 41
Unit	Height x Width x Depth (White)	mm	293 x 930 x 255
	Height x Width x Depth (Wood)	mm	293 x 940 x 257
	Weight (White/Wood)	kg	14/16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller	**White**		WH-UD02UE
Remote controller	**Wood**		WH-UD01UE

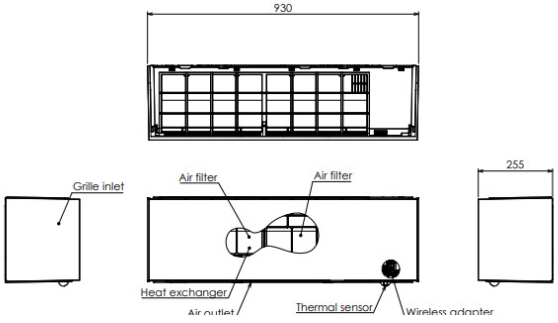
Related Items - **WOOD**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram



Related Items - **WHITE**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Installation Manual



DAISEIKAI 10: RAS - B18S4KVPG-E

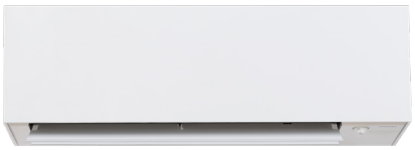
- Power supply to indoor or outdoor unit.
- WI-FI built in with advanced energy monitoring.
- New smart sensing with thermo mapping technology.
- Provides outstanding performance even down to temperatures of -30°C.
- Daiseikai 10 epitomises reliability and durability with sustainability at its core.

Retail Price (interactive icons):

UK £ ROI € WOOD

UK £ ROI € WHITE





Hi - Res Image

ELITE TIER PRODUCT RANGE			
Performance			
Indoor Unit	**White**	**RAS-**	**B18S4KVPG-E**
Indoor Unit	**Wood**	**RAS-**	**B18S4KVDG-E**
Outdoor Unit		**RAS-**	18S4AVPG-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	6.0
	EER/COP	W/W	3.57/4.14
UK	Cooling Total/Sensible	kW	4.40/3.56
	Heating	kW	3.43
Cooling EN14825	Range Min. - Max.	kW	0.90 - 6.0
	Power Input	kW	1.40
	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	203
Heating EN14825	Range Min. - Max.	kW	0.80 - 7.20
	Power Input	kW	1.45
	Pdesign	kW	4.5
	SCOP/Energy Efficiency Class		4.80/A++
	Seasonal Energy Consumption	kWh/a	1312

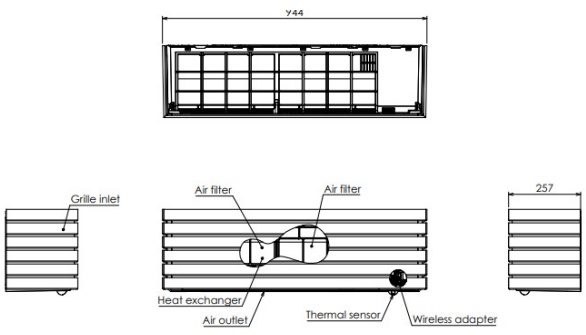
Indoor Data			
Air Flow	High - Low	l/s	225 - 2
	High - Low	m3/h	810 - 37
Sound	Pressure High - Low	dB(A)	45 - 26
	Power High - Low	dB(A)	59 - 41
Unit	Height x Width x Depth (White)	mm	293 x 930 x 255
	Height x Width x Depth (Wood)	mm	293 x 940 x 257
	Weight (White/Wood)	kg	14/16
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller	**White**		WH-UD02UE
Remote controller	**Wood**		WH-UD01UE

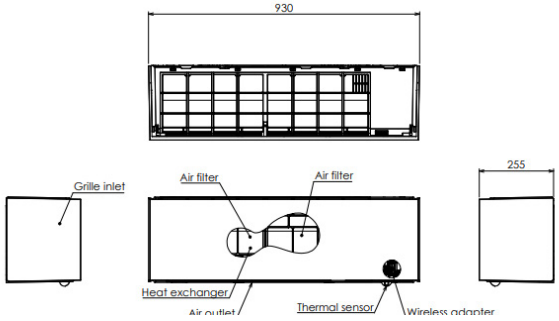
Related Items - **WOOD**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram

Related Items - **WHITE**:

- Full Specification
- Dimensional Drawing
- Wiring Diagram





DAISEIKAI 10: RAS - 10S4AVPG-E - B18S4KVPG-E

- Supports energy monitoring.
- High efficiency SCOP/SEER A+++.
- Power supply to indoor or outdoor unit.
- DAISEIKAI 10 epitomizes reliability and durability.
- Outstanding performances even down to -30°C.

Retail Price (interactive icons):

UK £ ROI €



Hi - Res Image

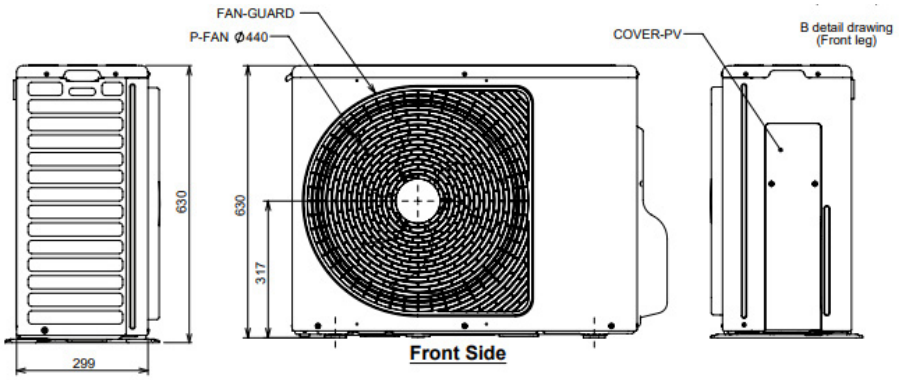
ELITE TIER PRODUCT RANGE					
Performance					
Outdoor Unit		**RAS-**	**10S4AVPG-E**	**13S4AVPG-E**	**18S4AVPG-E**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating		-20 ~ 24	-20 ~ 24	-20 ~ 24
Air Flow	High	m3/h - l/s	2100 - 583	2160 - 600	2220 - 616
Sound	Pressure High Cooling/Heating/Silent	dB(A)	44 / 45 /41	45 / 46 /42	47 / 49 /44
	Power High Cooling/Heating/Silent	dB(A)	57 / 58 / 54	58 / 59 / 55	60 / 62 / 57
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	±15	±15	±15
	Drain Port Connection	mm	16	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	1.0/15	1.0/15	1.0/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	Amps	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

Related Items - **10S4AVPG-E:**
- Dimensional Drawing
- Wiring Diagram

Related Items - **13S4AVPG-E:**
- Dimensional Drawing
- Wiring Diagram

Related Items - **18S4AVPG-E:**
- Dimensional Drawing
- Wiring Diagram

*All Accessories / Controls



Bi-Flow



BI-FLOW: RAS - B10J2FVG-E

- Easily blends into any decor.
- WI-FI available when utilising adapter.
- Compact design suitable for under window ledges.
- Floor mounted design to ensure perfect air distribution.
- Provides optimum comfort with A++ in heating and cooling.

Retail Price (interactive icons):

UK £ ROI €



Hi - Res Image

Performance			
Indoor Unit		**RAS-**	**B10J2FVG-E**
Outdoor Unit		**RAS-**	10J2AVSG-E1
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	4.24/3.90
UK	Cooling Total/Sensible	kW	2.44/2.03
	Heating	kW	1.90
Cooling EN14825	Range Min. - Max.	kW	0.95 - 3.2
	Power Input	kW	0.59
	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		7.20/A++
	Seasonal Energy Consumption	kWh/a	121
Heating EN14825	Range Min. - Max.	kW	0.85 - 4.40
	Power Input	kW	0.82
	Pdesign	kW	2.5
	SCOP/Energy Efficiency Class		4.70/A++
	Seasonal Energy Consumption	kWh/a	744

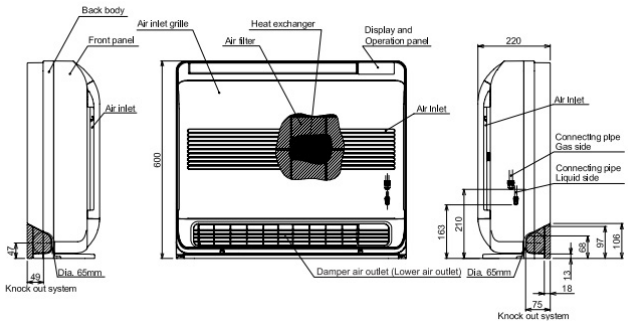
Indoor Data			
Air Flow	High - Low	l/s	136 - 71
	High - Low	m3/h	492 - 258
Sound	Pressure High - Low	dB(A)	39 - 23
	Power High - Low	dB(A)	54 - 38
Unit	Height x Width x Depth	mm	600 x 700 x 220
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA12LE

Accessories	
RB-1301-E	Refrigerant Leak detection sensor
RB-N106S-G	Wireless adapter with Cable

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



BI-FLOW: RAS - B13J2FVG-E

- Easily blends into any decor.
- WI-FI available when utilising adapter.
- Compact design suitable for under window ledges.
- Floor mounted design to ensure perfect air distribution.
- Provides optimum comfort with A++ in heating and cooling.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Indoor Unit		**RAS-**	**B13J2FVG-E**
Outdoor Unit		**RAS-**	13J2AVSG-E1
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.2
	EER/COP	W/W	4.02/3.31
UK	Cooling Total/Sensible	kW	3.42/2.74
	Heating	kW	2.51
Cooling EN14825	Range Min. - Max.	kW	1.05 - 4.1
	Power Input	kW	0.87
	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	174
Heating EN14825	Range Min. - Max.	kW	1.0 - 5.0
	Power Input	kW	1.27
	Pdesign	kW	3.0
	SCOP/Energy Efficiency Class		4.70/A++
	Seasonal Energy Consumption	kWh/a	893

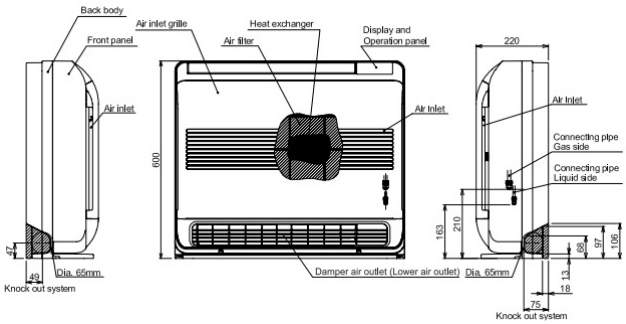
Indoor Data			
Air Flow	High - Low	l/s	153 - 75
	High - Low	m3/h	552 - 270
Sound	Pressure High - Low	dB(A)	40 - 24
	Power High - Low	dB(A)	55 - 39
Unit	Height x Width x Depth	mm	600 x 700 x 220
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA12LE

Accessories	
RB-1301-E	Refrigerant Leak detection sensor
RB-N106S-G	Wireless adapter with Cable

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



BI-FLOW: RAS - B18J2FVG-E

- Easily blends into any decor.
- WI-FI available when utilising adapter.
- Compact design suitable for under window ledges.
- Floor mounted design to ensure perfect air distribution.
- Provides optimum comfort with A++ in heating and cooling.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Indoor Unit		**RAS-**	**B18J2FVG-E**
Outdoor Unit		**RAS-**	18J2AVSG-E1
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	6.0
	EER/COP	W/W	2.98/2.93
UK	Cooling Total/Sensible	kW	4.40/3.56
	Heating	kW	3.43
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6
	Power Input	kW	1.68
	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		6.80/A++
	Seasonal Energy Consumption	kWh/a	257
Heating EN14825	Range Min. - Max.	kW	1.3 - 6.3
	Power Input	kW	2.05
	Pdesign	kW	4.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1217

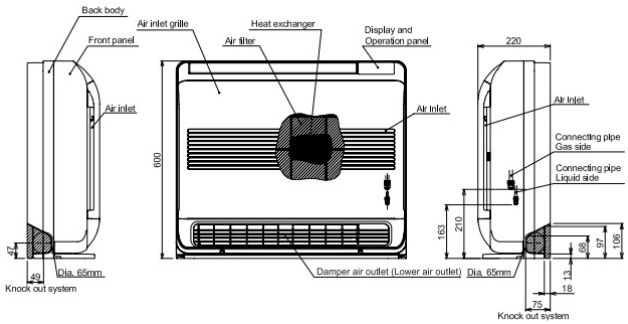
Indoor Data			
Air Flow	High - Low	l/s	183 - 101
	High - Low	m3/h	660 - 366
Sound	Pressure High - Low	dB(A)	47 - 31
	Power High - Low	dB(A)	61 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA12LE

Accessories	
RB-1301-E	Refrigerant Leak detection sensor
RB-N106S-G	Wireless adapter with Cable

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Airflow/ Fan Curve
- Dimensional Drawing
- Wiring Diagram
- Installation Manual
- Owners Manual



BI-FLOW: RAS - 10J2AVSG-E1 - 18J2AVSG-E1

- Auto-diagnosis function.
- Compact and light weight (34Kg).
- Outdoor unit silent operation down to 38 dB(A).
- Energy Class A++/A++ cooling and heating modes.
- Toshiba Inverter and compressor technology with R32.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

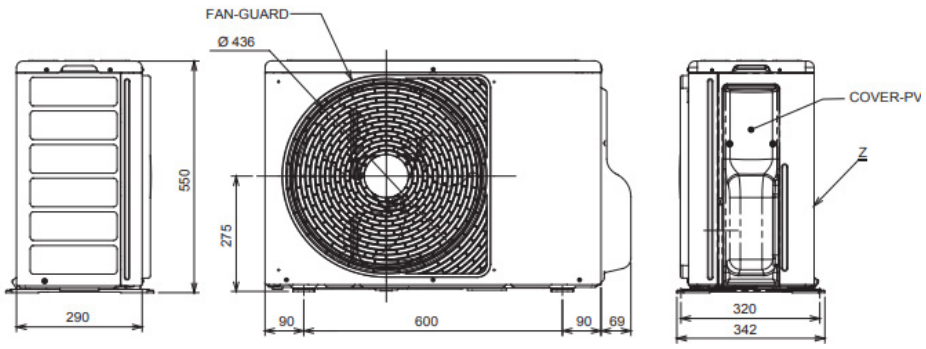
Performance					
Outdoor Unit		**RAS-**	**10J2AVSG-E1**	**13J2AVSG-E1**	**18J2AVSG-E1**
Operating Range	Cooling	C°	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating		-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	1890 - 524	1950 - 540	2076 - 576
Sound	Pressure High Cooling/Heating/Silent	dB(A)	45 / 47 / 38	47 / 49 / 40	49 / 51 / 43
	Power High Cooling/Heating/Silent	dB(A)	58 / 60 / 51	60 / 62 / 53	62 / 64 / 56
Unit	Height x Width x Depth	mm	550x780x290	550x780x290	550x780x290
	Weight	kg	26	30	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	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.55/15	0.80/15	1.1/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	Amps	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

Related Items - **10J2AVSG-E1**:
- BIM Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **13J2AVSG-E1**:
- BIM Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

Related Items - **18J2AVSG-E1**:
- BIM Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Noise Curve Data
- Installation Manual

*All Accessories / Controls



INVERTER
MULTI SYSTEM



MULTI: RAS - 2M10G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Outdoor Unit		**RAS-**	**2M10G3AVG-E**
Indoor Units Connected		**Min.-Max.**	**2-2**
Capacity Code	2 x Indoor Connection	Min.-Max.	10-20
	3+ Indoor Connection	Min.-Max.	-
Nominal	Cooling Capacity	kW	3.3
	Heating Capacity	kW	4.0
	EER/COP	W/W	4.93 / 4.71
Cooling EN14825	Range Min. - Max.	kW	1.20 - 4.1
	Power Input	kW	0.67
	Pdesign	kW	3.3
	SEER/Energy Efficiency Class		8.6 / A+++
	Seasonal Energy Consumption	kWh/a	169
Heating EN14825	Range Min. - Max.	kW	1.00 - 4.90
	Power Input	kW	0.85
	Pdesign	kW	2.7
	SCOP/Energy Efficiency Class		4.7 / A++
	Seasonal Energy Consumption	kWh/a	805

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	2100-583
Sound	Pressure High/Low	dB(A)	51/46
	Power High	dB(A)	64
Unit	Height x Width x Depth	mm	550 x 780 x 290
	Weight	kg	31
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 2 - 1/4" x 2
	Min.-Max. Length	m	2-20
	Maximum Pipe Length Per Unit	m	15
	Maximum Height Difference	m	10
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	0.8 / 20
	Additional Charge	g/m	0
Run Current	Maximum	Amps	4.90
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

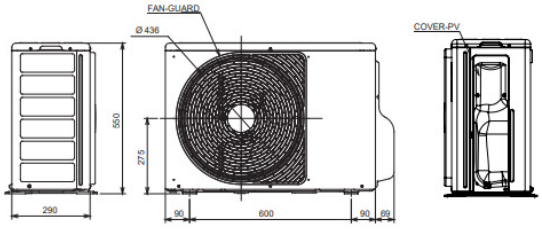
✓ Available

✗ Not available

*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



MULTI: RAS - 2M14G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Outdoor Unit		**RAS-**	**2M14G3AVG-E**
Indoor Units Connected		**Min.-Max.**	**2-2**
Capacity Code	2 x Indoor Connection	Min.-Max.	10-26
	3+ Indoor Connection	Min.-Max.	-
Nominal	Cooling Capacity	kW	4.0
	Heating Capacity	kW	4.4
	EER/COP	W/W	4.71 / 4.89
Cooling EN14825	Range Min. - Max.	kW	1.5 - 4.9
	Power Input	kW	0.85
	Pdesign	kW	4.0
	SEER/Energy Efficiency Class		8.7 / A+++
	Seasonal Energy Consumption	kWh/a	169
Heating EN14825	Range Min. - Max.	kW	1.00 - 5.20
	Power Input	kW	0.90
	Pdesign	kW	3.1
	SCOP/Energy Efficiency Class		4.8 / A++
	Seasonal Energy Consumption	kWh/a	904

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	2250-625
Sound	Pressure High/Low	dB(A)	52/46
	Power High	dB(A)	65
Unit	Height x Width x Depth	mm	550 x 780 x 290
	Weight	kg	35
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 2 - 1/4" x 2
	Min.-Max. Length	m	2-30
	Maximum Pipe Length Per Unit	m	20
	Maximum Height Difference	m	10
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	0.95 / 30
	Additional Charge	g/m	0
Run Current	Maximum	Amps	5.20
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

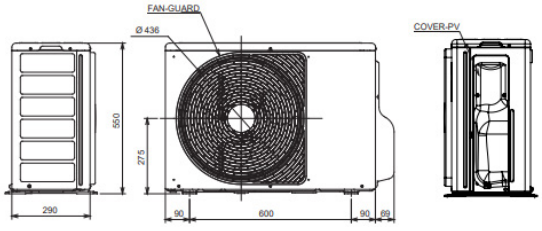
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*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



MULTI: RAS - 2M18G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Outdoor Unit		**RAS-**	**2M18G3AVG-E**
Indoor Units Connected		**Min.-Max.**	2-2
Capacity Code	2 x Indoor Connection	Min.-Max.	10-32
	3+ Indoor Connection	Min.-Max.	-
Nominal	Cooling Capacity	kW	5.2
	Heating Capacity	kW	5.6
	EER/COP	W/W	4.33 / 4.91
Cooling EN14825	Range Min. - Max.	kW	1.6 - 6.5
	Power Input	kW	1.20
	Pdesign	kW	5.2
	SEER/Energy Efficiency Class		8.7 / A+++
	Seasonal Energy Consumption	kWh/a	243
Heating EN14825	Range Min. - Max.	kW	1.30 - 8.20
	Power Input	kW	1.14
	Pdesign	kW	3.2
	SCOP/Energy Efficiency Class		4.8 / A++
	Seasonal Energy Consumption	kWh/a	914

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	2600-722
Sound	Pressure High/Low	dB(A)	50/44
	Power High	dB(A)	63
Unit	Height x Width x Depth	mm	630 x 800 x 300
	Weight	kg	43
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 2 - 1/4" x 2
	Min.-Max. Length	m	2-30
	Maximum Pipe Length Per Unit	m	20
	Maximum Height Difference	m	10
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	1.2 / 30
	Additional Charge	g/m	0
Run Current	Maximum	Amps	8.20
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

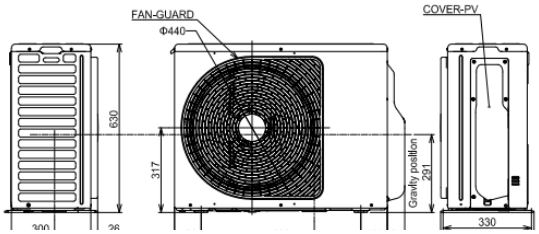
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*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



MULTI: RAS - 3M18G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Outdoor Unit		**RAS-**	**3M18G3AVG-E**
Indoor Units Connected		**Min.-Max.**	2-3
Capacity Code	2 x Indoor Connection	Min.-Max.	10-32
	3+ Indoor Connection	Min.-Max.	10-36
Nominal	Cooling Capacity	kW	5.2
	Heating Capacity	kW	6.8
	EER/COP	W/W	5.2 / 4.69
Cooling EN14825	Range Min. - Max.	kW	2.0 - 7.5
	Power Input	kW	1.00
	Pdesign	kW	5.2
	SEER/Energy Efficiency Class		8.6 / A+++
	Seasonal Energy Consumption	kWh/a	262
Heating EN14825	Range Min. - Max.	kW	1.90 - 8.30
	Power Input	kW	1.45
	Pdesign	kW	3.5
	SCOP/Energy Efficiency Class		4.8 / A++
	Seasonal Energy Consumption	kWh/a	1021

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	2800-778
Sound	Pressure High/Low	dB(A)	52/46
	Power High	dB(A)	65
Unit	Height x Width x Depth	mm	630 x 800 x 300
	Weight	kg	44
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 2 + 1/2"x1 - 1/4" x 3
	Min.-Max. Length	m	2-50
	Maximum Pipe Length Per Unit	m	25
	Maximum Height Difference	m	10
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	1.25 / 50
	Additional Charge	g/m	20
Run Current	Maximum	Amps	6.98
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

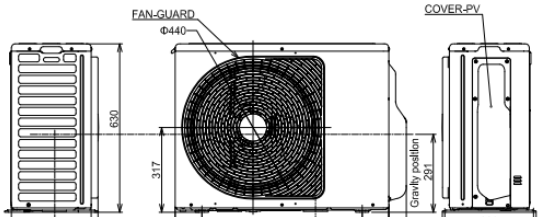
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*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



TOSHIBA

PRODUCT SPECIFICATION

MULTI: RAS - 3M26G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Outdoor Unit		**RAS-**	**3M26G3AVG-E**
Indoor Units Connected		**Min.-Max.**	2-3
Capacity Code	2 x Indoor Connection	Min.-Max.	10-42
	3+ Indoor Connection	Min.-Max.	10-54
Nominal	Cooling Capacity	kW	7.5
	Heating Capacity	kW	9.0
	EER/COP	W/W	4 / 4.35
Cooling EN14825	Range Min. - Max.	kW	2.0 - 9.0
	Power Input	kW	1.75
	Pdesign	kW	7.5
	SEER/Energy Efficiency Class		8.5 / A+++
	Seasonal Energy Consumption	kWh/a	340
Heating EN14825	Range Min. - Max.	kW	2.0 - 11.5
	Power Input	kW	2.00
	Pdesign	kW	5.2
	SCOP/Energy Efficiency Class		4.6 / A++
	Seasonal Energy Consumption	kWh/a	1583

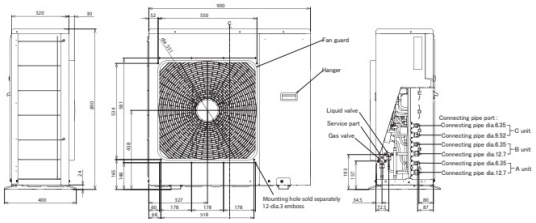
Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	3700-1028
Sound	Pressure High/Low	dB(A)	53/45
	Power High	dB(A)	66
Unit	Height x Width x Depth	mm	890 x 900 x 320
	Weight	kg	67
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 1 + 1/2"x2 - 1/4" x 3
	Min.-Max. Length	m	3-70
	Maximum Pipe Length Per Unit	m	25
	Maximum Height Difference	m	15
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	1.9 / 40
	Additional Charge	g/m	20
Run Current	Maximum	Amps	9.57
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

✓ Available

✗ Not available

*All Accessories / Controls



Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual

MULTI: RAS - 4M27G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Outdoor Unit		**RAS-**	**4M27G3AVG-E**
Indoor Units Connected		**Min.-Max.**	2-4
Capacity Code	2 x Indoor Connection	Min.-Max.	10-42
	3+ Indoor Connection	Min.-Max.	10-54
Nominal	Cooling Capacity	kW	8.0
	Heating Capacity	kW	9.0
	EER/COP	W/W	4.21 / 4.74
Cooling EN14825	Range Min. - Max.	kW	2.0 - 10.0
	Power Input	kW	1.90
	Pdesign	kW	8.0
	SEER/Energy Efficiency Class		8.3 / A++
	Seasonal Energy Consumption	kWh/a	406
Heating EN14825	Range Min. - Max.	kW	2.0 - 12.0
	Power Input	kW	1.90
	Pdesign	kW	5.2
	SCOP/Energy Efficiency Class		4.5 / A+
	Seasonal Energy Consumption	kWh/a	1617

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	3700-1028
Sound	Pressure High/Low	dB(A)	54/45
	Power High	dB(A)	67
Unit	Height x Width x Depth	mm	890 x 900 x 320
	Weight	kg	68
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 2 + 1/2"x2 - 1/4" x 4
	Min.-Max. Length	m	3-70
	Maximum Pipe Length Per Unit	m	25
	Maximum Height Difference	m	15
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	2.05 / 40
	Additional Charge	g/m	20
Run Current	Maximum	Amps	9.29
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

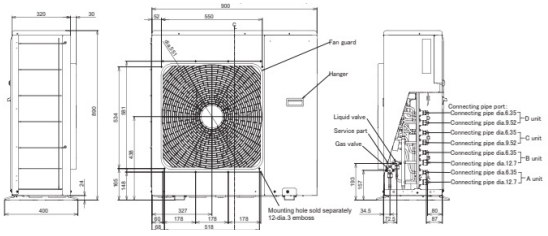
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*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



MULTI: RAS - 5M34G3AVG-E

- Supports WI-FI control.
- Best in class energy efficiency A++ / A++.
- Dyna Doctor port for easy service connection.
- Supports energy monitoring on compatible indoor units.
- New compact outdoor unit size for 2M10 and 2M14 models.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Outdoor Unit		**RAS-**	**5M34G3AVG-E**
Indoor Units Connected		**Min.-Max.**	2-5
Capacity Code	2 x Indoor Connection	Min.-Max.	10-48
	3+ Indoor Connection	Min.-Max.	10-68
Nominal	Cooling Capacity	kW	10.0
	Heating Capacity	kW	12.0
	EER/COP	W/W	3.85 / 4.24
Cooling EN14825	Range Min. - Max.	kW	2.5 - 11.5
	Power Input	kW	2.60
	Pdesign	kW	10.0
	SEER/Energy Efficiency Class		7.2 / A++
	Seasonal Energy Consumption	kWh/a	573
Heating EN14825	Range Min. - Max.	kW	2.2 - 14.2
	Power Input	kW	2.80
	Pdesign	kW	6.8
	SCOP/Energy Efficiency Class		4.3 / A+
	Seasonal Energy Consumption	kWh/a	2213

Outdoor Data			
Operating Range	Cooling	°C	-10/46
	Heating		-20/24
Air Flow	High	m3/h - l/s	4400-1222
Sound	Pressure High/Low	dB(A)	56/47
	Power High	dB(A)	69
Unit	Height x Width x Depth	mm	890 x 900 x 320
	Weight	kg	78
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" x 3 + 1/2"x2 - 1/4" x 5
	Min.-Max. Length	m	3-80
	Maximum Pipe Length Per Unit	m	25
	Maximum Height Difference	m	15
	Drain Port Connection	mm	16
Refrigerant R32	Base Charge/Chargeless Length	m	2.39 / 40
	Additional Charge	g/m	20
Run Current	Maximum	Amps	12.99
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20

RAS Indoor Model	Cooling kW	Heating kW	SEIYA*	SHORAI EDGE B&W*	HAORI*	DAISEIKAI 10*	CONSOLE*	CASSETTE**	Ducted**
05	1.5	2.0	✓	✗	✗	✗	✗	✗	✗
07	2.0	2.7	✓	✗	✗	✗	✗	✗	✓
10	2.7	4.0	✓	✓	✓	✓	✓	✓	✓
13	3.7	5.0	✓	✓	✓	✓	✓	✓	✓
16	4.5	5.5	✓	✓	✓	✗	✗	✓	✓
18	5.0	6.0	✓	✓	✗	✓	✓	✗	✗
22	6.0	7.0	✗	✓	✗	✗	✗	✗	✓
24	7.1	8.1	✓	✓	✗	✗	✗	✗	✓

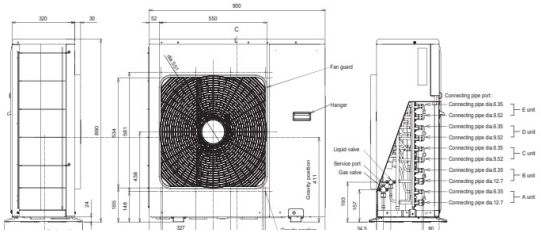
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*All Accessories / Controls

Related Items:

- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Combinations
- Noise Curve Data
- Installation Manual



Multi Compact Cassette



COMPACT CASSETTE: RAS - M10S4MUVG-E

- Optional Occupancy sensor.
- Optional wired remote controller.
- Optional Wireless remote controller kit.
- Elegant and unobtrusive with modern design.
- Suited for 600x600 grid ceilings thanks to compact and thin chassis.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Indoor Unit		**RAS-**	**M10S4MUVG-E**
Capacity Code			10
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
UK	Cooling Total/Sensible	kW	2.44/2.03
	Heating	kW	2.05
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75
	Power Input	kW	0.023
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10
	Power Input	kW	0.023

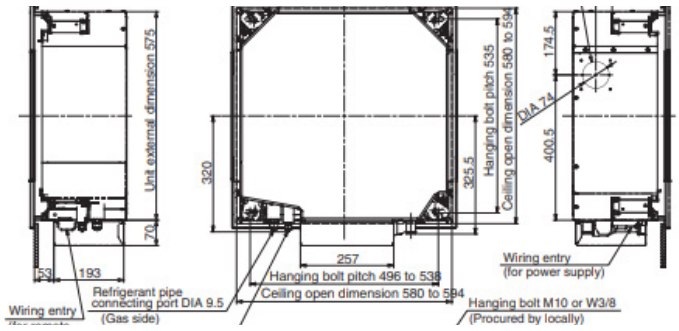
Indoor Data			
Air Flow	High - Low	l/s	164 - 119
	High - Low	m3/h	590 - 420
Sound	Pressure High - Low	dB(A)	37 - 30
	Power High - Low	dB(A)	50 - 43
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	16
Panel RBC-UM21P-E	Height x Width x Depth	mm	12 x 620 x 620
	Weight	kg	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25

Accessories	
RBC-AXU31UMP-E	Wireless remote controller Kit
RBC-AMSU52-E	Wired Remote Controller
TCB-SIR41UM-E	Occupancy sensor

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



COMPACT CASSETTE: RAS - M13S4MUVG-E

- Optional Occupancy sensor.
- Optional wired remote controller.
- Optional Wireless remote controller kit.
- Elegant and unobtrusive with modern design.
- Suited for 600x600 grid ceilings thanks to compact and thin chassis.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance				
Indoor Unit		**RAS-**	**M13S4MUVG-E**
Capacity Code			13
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.2
UK	Cooling Total/Sensible	kW	3.42/2.74
	Heating	kW	2.61
Cooling EN14825	Range Min. - Max.	kW	1.71 - 3.70
	Power Input	kW	0.023
Heating EN14825	Range Min. - Max.	kW	2.07 - 5.00
	Power Input	kW	0.023

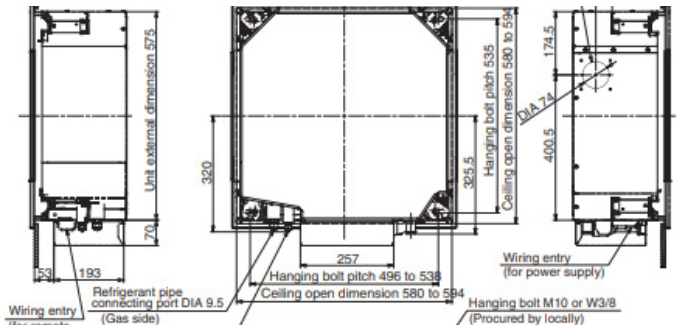
Indoor Data			
Air Flow	High - Low	l/s	172 - 119
	High - Low	m3/h	620 - 470
Sound	Pressure High - Low	dB(A)	39 - 33
	Power High - Low	dB(A)	52 - 46
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	16
Panel RBC-UM21P-E	Height x Width x Depth	mm	12 x 620 x 620
	Weight	kg	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25

Accessories	
RBC-AXU31UMP-E	Wireless remote controller Kit
RBC-AMSU52-E	Wired Remote Controller
TCB-SIR41UM-E	Occupancy sensor

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



COMPACT CASSETTE: RAS - M16S4MUVG-E

- Optional Occupancy sensor.
- Optional wired remote controller.
- Optional Wireless remote controller kit.
- Elegant and unobtrusive with modern design.
- Suited for 600x600 grid ceilings thanks to compact and thin chassis.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance				
Indoor Unit		**RAS-**	**M16S4MUVG-E**
Capacity Code			16
Nominal	Cooling Capacity	kW	4.6
	Heating Capacity	kW	5.5
UK	Cooling Total/Sensible	kW	4.49/3.56
	Heating	kW	3.53
Cooling EN14825	Range Min. - Max.	kW	2.13 - 4.50
	Power Input	kW	0.023
Heating EN14825	Range Min. - Max.	kW	2.33 - 5.50
	Power Input	kW	0.023

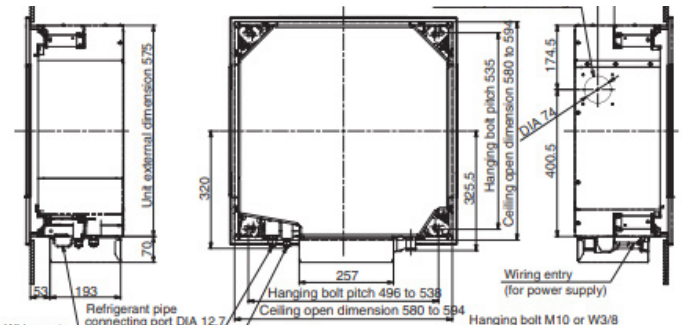
Indoor Data			
Air Flow	High - Low	l/s	189 - 125
	High - Low	m3/h	660 - 470
Sound	Pressure High - Low	dB(A)	41 - 33
	Power High - Low	dB(A)	54 - 46
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	16
Panel RBC-UM21P-E	Height x Width x Depth	mm	12 x 620 x 620
	Weight	kg	3
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25

Accessories	
RBC-AXU31UMP-E	Wireless remote controller Kit
RBC-AMSU52-E	Wired Remote Controller
TCB-SIR41UM-E	Occupancy sensor

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



Multi Slim Ducted



DUCTED: RAS - M07U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Indoor Unit		**RAS-**	**M07U2DVG-E**
Capacity Code			7
Nominal	Cooling Capacity	kW	2.0
	Heating Capacity	kW	2.7
UK	Cooling Total/Sensible	kW	1.95/1.57
	Heating	kW	1.60
Cooling EN14825	Range Min. - Max.	kW	1.01 - 2.03
	Power Input	kW	0.048
Heating EN14825	Range Min. - Max.	kW	1.23 - 2.95
	Power Input	kW	0.048

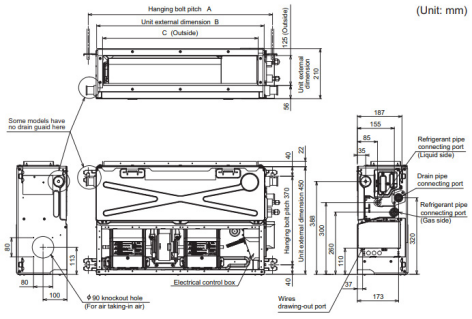
Indoor Data			
Air Flow	High - Low	l/s	158 - 106
	High - Low	m3/h	570 - 380
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27
	High - Low (under inlet)	dB(A)	44 - 30
Sound Power	High - Low	dB(A)	50 - 42
	High - Low (under inlet)	dB(A)	59 - 45
Unit	Height x Width x Depth	mm	210 x 700 x 450
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



DUCTED: RAS - M10U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Indoor Unit		**RAS-**	**M10U2DVG-E**
Capacity Code			**10**
Nominal	Cooling Capacity	kW	2.7
	Heating Capacity	kW	4.0
UK	Cooling Total/Sensible	kW	2.44/1.93
	Heating	kW	2.03
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75
	Power Input	kW	0.048
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10
	Power Input	kW	0.048

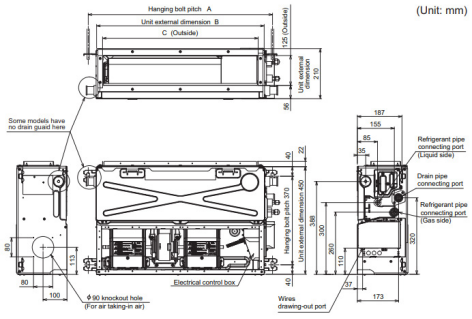
Indoor Data			
Air Flow	High - Low	l/s	158 - 106
	High - Low	m3/h	570 - 380
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27
	High - Low (under inlet)	dB(A)	44 - 30
Sound Power	High - Low	dB(A)	50 - 42
	High - Low (under inlet)	dB(A)	59 - 45
Unit	Height x Width x Depth	mm	210 x 700 x 450
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



SLIM DUCTED: RAS - M13U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Indoor Unit		**RAS-**	**M13U2DVG-E**
Capacity Code			**13**
Nominal	Cooling Capacity	kW	3.7
	Heating Capacity	kW	5.0
UK	Cooling Total/Sensible	kW	3.22/2.49
	Heating	kW	2.20
Cooling EN14825	Range Min. - Max.	kW	1.71 - 3.70
	Power Input	kW	0.054
Heating EN14825	Range Min. - Max.	kW	2.07 - 5.00
	Power Input	kW	0.054

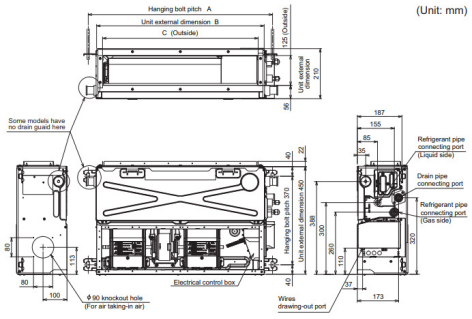
Indoor Data			
Air Flow	High - Low	l/s	169 - 107
	High - Low	m3/h	610 - 385
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	37 - 27
	High - Low (under inlet)	dB(A)	46 - 30
Sound Power	High - Low	dB(A)	52 - 42
	High - Low (under inlet)	dB(A)	61 - 45
Unit	Height x Width x Depth	mm	210 x 700 x 450
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



SLIM DUCTED: RAS - M16U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Indoor Unit		**RAS-**	**M16U2DVG-E**
Capacity Code			**16**
Nominal	Cooling Capacity	kW	4.5
	Heating Capacity	kW	5.5
UK	Cooling Total/Sensible	kW	4.49/3.36
	Heating	kW	3.33
Cooling EN14825	Range Min. - Max.	kW	2.13 - 4.50
	Power Input	kW	0.062
Heating EN14825	Range Min. - Max.	kW	2.33 - 5.50
	Power Input	kW	0.062

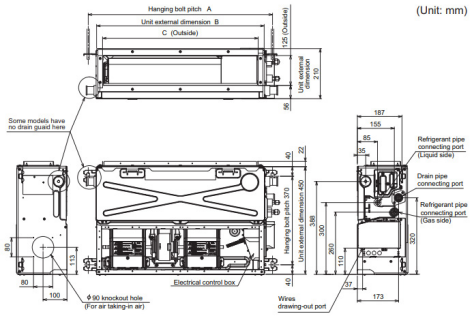
Indoor Data			
Air Flow	High - Low	l/s	217 - 117
	High - Low	m3/h	780 - 420
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 25
	High - Low (under inlet)	dB(A)	44 - 27
Sound Power	High - Low	dB(A)	50 - 40
	High - Low (under inlet)	dB(A)	59 - 42
Unit	Height x Width x Depth	mm	210 x 900 x 450
	Weight	kg	19
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



SLIM DUCTED: RAS - M22U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Indoor Unit		**RAS-**	**M22U2DVG-E**
Capacity Code			22
Nominal	Cooling Capacity	kW	6.0
	Heating Capacity	kW	7.0
UK	Cooling Total/Sensible	kW	5.96/4.24
	Heating	kW	3.98
Cooling EN14825	Range Min. - Max.	kW	2.93 - 6.00
	Power Input	kW	0.069
Heating EN14825	Range Min. - Max.	kW	3.04 - 7.00
	Power Input	kW	0.069

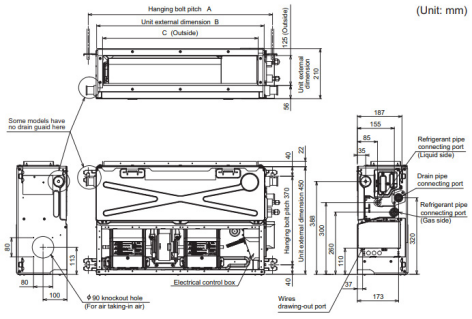
Indoor Data			
Air Flow	High - Low	l/s	278 - 206
	High - Low	m3/h	1000 - 740
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	38 - 32
	High - Low (under inlet)	dB(A)	45 - 37
Sound Power	High - Low	dB(A)	53 - 47
	High - Low (under inlet)	dB(A)	60 - 52
Unit	Height x Width x Depth	mm	210 x 1100 x 450
	Weight	kg	22
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



SLIM DUCTED: RAS - M24U2DVG-E

- Slim design with only 210mm height.
- External static pressure from 10 to 45 Pa.
- Compatible with latest R32 Multi System.
- Inbuilt Condensate drain pump with lift up to 350mm.
- Compliant with European Ecodesign regulation - Lot10.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance				
Indoor Unit			**RAS-**	**M24U2DVG-E**
Capacity Code				**24**
Nominal	Cooling Capacity		kW	7.1
	Heating Capacity		kW	8.1
UK	Cooling Total/Sensible		kW	6.84/4.71
	Heating		kW	5.27
Cooling EN14825	Range Min. - Max.		kW	3.28 - 7.10
	Power Input		kW	0.076
Heating EN14825	Range Min. - Max.		kW	3.36 - 8.10
	Power Input		kW	0.076

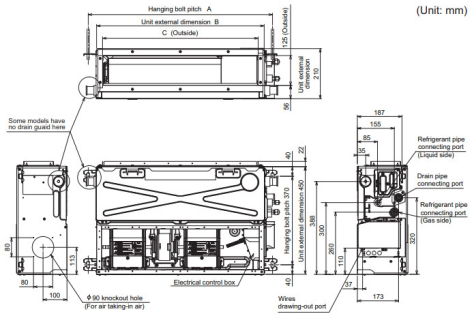
Indoor Data			
Air Flow	High - Low	l/s	294 - 211
	High - Low	m3/h	1060 - 760
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	39 - 33
	High - Low (under inlet)	dB(A)	46 - 38
Sound Power	High - Low	dB(A)	54 - 48
	High - Low (under inlet)	dB(A)	61 - 53
Unit	Height x Width x Depth	mm	210 x 1100 x 450
	Weight	kg	22
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25
Remote Controller			WH-TA04NE

Accessories	
RB-RWS21-E	Wired Remote Controller

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Airflow/ Fan Curve
- Noise Curve Data
- Installation Manual
- Owners Manual



RAS CONTROLS & ACCESSORIES



CONTROLS

Controls & Sensors	Image	Model Reference	Application	Description	Related Items
		RB-RXS31-E	Multi & Split System	Weekly-timer, IMS combination	Owners Manual
		RB-RXS33-E	Multi & Split System	Weekly-timer, IMS combination	Owners Manual
		RB-RXS34-E	Multi & Split System	Accessory Remote Controller for (SEIYA, SHORAI, CONSOLE, Daiseikai)	Owners Manual
		RB-AX32UM(W)-E	Multi-Cassette	Wireless Remote Controller Kit	Installation Manual
		TCB-SIR41UM-E	Multi-Cassette	Occupancy Sensor	Installation Manual

Wired	Image	Model Reference	Application	Description	Related Items
		RB-RWS21-E	Remote Controller	Hard wired remote controller RAS Ducted	Installation Manual

Wi-Fi Interface	Image	Model Reference	Application	Description	Related Items
		RB-N105S-G	Wi-Fi Connection	Wi-Fi adapter	Installation Manual
		RB-N106S-G		Wi-Fi adapter and cable	Installation Manual

Interface	Image	Model Reference	Application	Description	Related Items
		RBC-IT3-PE	Timer Interface	240v Timer interface for Daiseikai units	Contact Toshiba Technical

Leak Detection	Image	Model Reference	Application	Description	Related Items
		RB-1301-E	Refrigerant Sensor	R32 Refrigerant Leak detection sensor	Installation Manual

MISCELLANEOUS

	Image	Model Reference	Application	Description
Miscellaneous		818F0036	IAQ Filter (Pair)	RAS (Qty required Indoor width ≤ 800mm x 1; Indoor > 800mm x 2)
		818F0050	Ultra pure filter (Pair)	RAS (Qty required Indoor width ≤ 800mm x 1; Indoor > 800mm x 2)

	Image	Model Reference	Application	Description
Fabric Covers		RB-I4101-E	HAORI	Dark Grey
		RB-I4102-E		Light Grey
		RB-I4103-E		Bluish Grey
		RB-I4104-E		Grey Beige
		RB-I4105-E		Dark Brown
		RB-I4106-E		Emerald Blue

	Image	Model Reference	Application	Description
		CACC-SF	Timer Interface	Single Fan CDU Coil Anti-Corrosion Coating

ESTiA



ESTIA OUTDOOR 1PH: HWT - 401HW-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

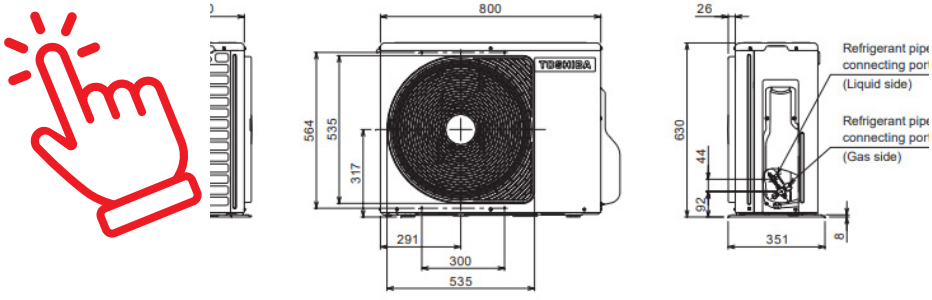
Performance					
Outdoor Unit				HWT-	401HW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	601XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	4.0
	Max Heating Capacity	+7°C	35°C	kW	7.25
	COP	+7°C	35°C	W/W	5.20
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.53/178
	Max Heating Capacity	-7°C	35°C	kW	4.80
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	6.97
	Max Heating Capacity	-7°C	45°C	kW	4.48
	Max Heating Capacity	+7°C	55°C	kW	6.51
	Max Heating Capacity	-7°C	55°C	kW	4.31
	Energy Efficiency Class - Low Temp Energy label		55°C		A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.45/135
Operating Range	Space Heating Operation Outdoor			°C	-20 ~ 25
	Hot Water Operation Outdoor			°C	-20 ~ 43
	Hydro Heating Operation Indoor			°C	+20 ~ 55
Heating Condition	Input Power	35°C	7°C	kW	0.77
	Rated Water Flow	35°C	7°C	l/m	11.6
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	46/41
	Sound Power Outdoor (Rated-Silent)			dB(A)	60/55
Unit	Height X Width X Depth			mm	630 x 800 x 300
	Weight			kg	42
Air Flow	Standard			l/s - m3/h	607 - 2184
Pipe Connection	Flare Connections (Gas - Liquid)			inch	1/2 - 1/4
	Drain Port Connection			mm	16
	Min.-Max. Length / Max Height Difference			m	5-30 / 30
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	0.9/20 - 20
Electrical	Power Input Heating			kW	0.77
	Running Current Heating			Amps	4.08
	Maximum Running Current			Amps	14.6
	Suggested Outdoor Power Supply			V/ph/Hz/A	220-240/1/50/16
	Baseplate Tape heater			Watts	-
	Interconnection Cable to Hydro Indoor				2 core + earth
	Wiring Connection Power to Outdoor Unit				2 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Wiring Specifications
- Noise Curve Data
- Installation Manual



ESTIA OUTDOOR 1PH: HWT 601HW-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

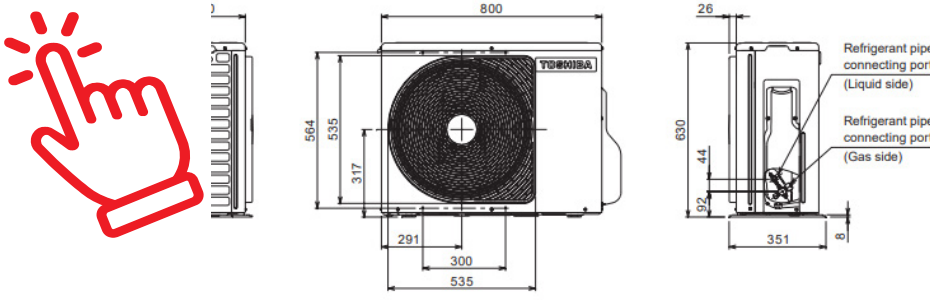
Performance					
Outdoor Unit				HWT-	601HW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	601XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	6.0
	Max Heating Capacity	+7°C	35°C	kW	7.25
	COP	+7°C	35°C	W/W	4.80
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.58/180
	Max Heating Capacity	-7°C	35°C	kW	6.06
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	6.97
	Max Heating Capacity	-7°C	45°C	kW	5.80
	Max Heating Capacity	+7°C	55°C	kW	7.53
	Max Heating Capacity	-7°C	55°C	kW	5.42
	Energy Efficiency Class - Low Temp Energy label		55°C		A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.37/132
Operating Range	Space Heating Operation Outdoor			°C	-20 ~ 25
	Hot Water Operation Outdoor			°C	-20 ~ 43
	Hydro Heating Operation Indoor			°C	+20 ~ 55
Heating Condition	Input Power	35°C	7°C	kW	1.25
	Rated Water Flow	35°C	7°C	l/m	17.3
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	46/42
	Sound Power Outdoor (Rated-Silent)			dB(A)	62/58
Unit	Height X Width X Depth			mm	630 x 800 x 300
	Weight			kg	42
Air Flow	Standard			l/s - m3/h	607 - 2184
Pipe Connection	Flare Connections (Gas - Liquid)			inch	1/2 - 1/4
	Drain Port Connection			mm	16
	Min.-Max. Length / Max Height Difference			m	5-30 / 30
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	0.9/20 - 20
Electrical	Power Input Heating			kW	1.25
	Running Current Heating			Amps	5.78
	Maximum Running Current			Amps	14.6
	Suggested Outdoor Power Supply			V/ph/Hz/A	220-240/1/50/16
	Baseplate Tape heater			Watts	-
	Interconnection Cable to Hydro Indoor				2 core + earth
	Wiring Connection Power to Outdoor Unit				2 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Wiring Specifications
- Noise Curve Data
- Installation Manual



ESTIA OUTDOOR 1PH: HWT 801H(R)W-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

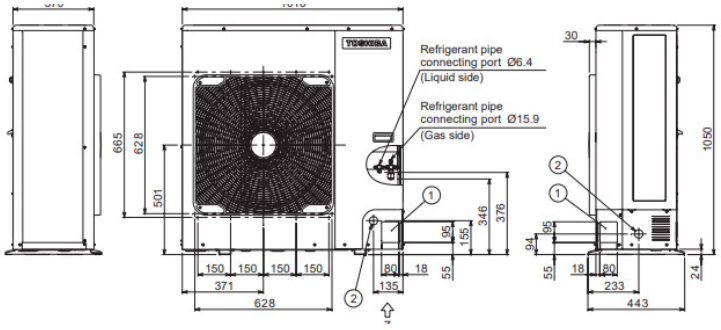
Performance						
Outdoor Unit				HWT-	801HW-E	801HRW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1101XWH**W-E	1101XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	8.0	8.0
	Max Heating Capacity	+7°C	35°C	kW	11.90	11.90
	COP	+7°C	35°C	W/W	5.19	5.19
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.63/182	4.63/182
	Max Heating Capacity	-7°C	35°C	kW	8.11	8.11
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	11.75	11.75
	Max Heating Capacity	-7°C	45°C	kW	8.00	8.00
	Max Heating Capacity	+7°C	55°C	kW	9.96	9.96
	Max Heating Capacity	-7°C	55°C	kW	7.35	7.35
	Energy Efficiency Class - Low Temp Energy label		55°C		A++	A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.63/142	3.63/142
Operating Range	Space Heating Operation Outdoor			°C	-25 ~ 25	-25 ~ 25
	Hot Water Operation Outdoor			°C	-25 ~ 43	-25 ~ 43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	1.54	1.54
	Rated Water Flow	35°C	7°C	l/m	23.1	23.1
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	51/47	51/47
	Sound Power Outdoor (Rated-Silent)			dB(A)	63/59	63/59
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	75	75
Air Flow	Standard			l/s - m3/h	873 - 3144	873 - 3144
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-30 / 30	5-30 / 30
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.25/8 - 25	1.25/8 - 25
Electrical	Power Input Heating			kW	1.54	1.54
	Running Current Heating			Amps	7.05	7.05
	Maximum Running Current			Amps	20.3	20.3
	Suggested Outdoor Power Supply			V/ph/Hz/A	220-240/1/50/25	220-240/1/50/25
	Baseplate Tape heater			Watts	-	150
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				2 core + earth	2 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

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- Wiring Diagram
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ESTIA OUTDOOR 1PH: HWT 1101H(R)W-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

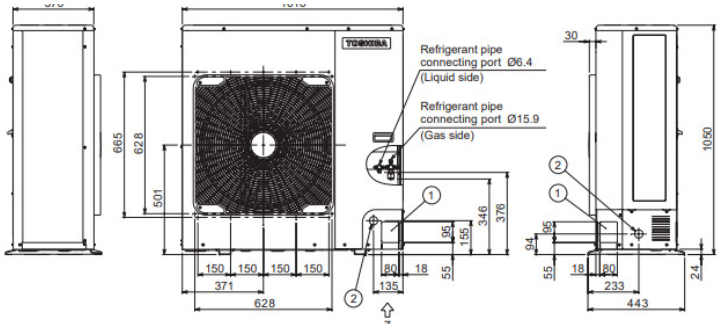
Performance						
Outdoor Unit				HWT-	1101HW-E	1101HRW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1101XWH**W-E	1101XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	11.0	11.0
	Max Heating Capacity	+7°C	35°C	kW	13.24	13.24
	COP	+7°C	35°C	W/W	4.60	4.60
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.55/179	4.55/179
	Max Heating Capacity	-7°C	35°C	kW	9.10	9.10
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	12.41	12.41
	Max Heating Capacity	-7°C	45°C	kW	8.44	8.44
	Max Heating Capacity	+7°C	55°C	kW	10.17	10.17
	Max Heating Capacity	-7°C	55°C	kW	7.72	7.72
	Energy Efficiency Class - Low Temp Energy label		55°C		A++	A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.62/142	3.62/142
Operating Range	Space Heating Operation Outdoor			°C	-25 ~ 25	-25 ~ 25
	Hot Water Operation Outdoor			°C	-25 ~ 43	-25 ~ 43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	2.39	2.39
	Rated Water Flow	35°C	7°C	l/m	32.1	32.1
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	51/47	51/47
	Sound Power Outdoor (Rated-Silent)			dB(A)	64/62	64/62
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	75	75
Air Flow	Standard			l/s - m3/h	973 - 3504	973 - 3504
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-30 / 30	5-30 / 30
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.25/8 - 25	1.25/8 - 25
Electrical	Power Input Heating			kW	2.39	2.39
	Running Current Heating			Amps	10.60	10.60
	Maximum Running Current			Amps	20.3	20.3
	Suggested Outdoor Power Supply			V/ph/Hz/A	220-240/1/50/25	220-240/1/50/25
	Baseplate Tape heater			Watts	-	150
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				2 core + earth	2 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

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- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Wiring Specifications
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ESTIA OUTDOOR 1PH: HWT 1401H(R)W-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.

Retail Price (interactive icons):

UK £ ROI €



Hi - Res Image

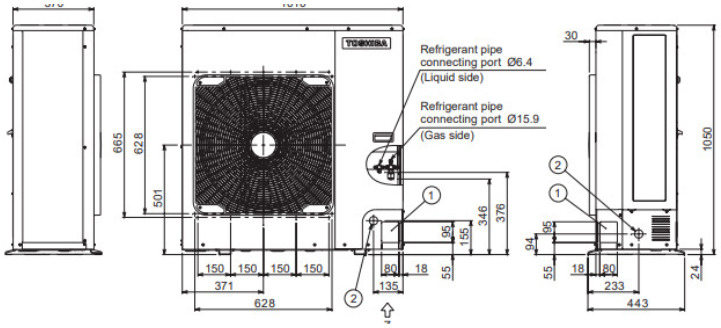
Performance						
Outdoor Unit				HWT-	1401HW-E	1401HW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1401XWH**W-E	1401XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	14.0	14.0
	Max Heating Capacity	+7°C	35°C	kW	18.39	18.39
	COP	+7°C	35°C	W/W	4.60	4.60
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.65/183	4.65/183
	Max Heating Capacity	-7°C	35°C	kW	13.05	13.05
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	16.30	16.30
	Max Heating Capacity	-7°C	45°C	kW	11.94	11.94
	Max Heating Capacity	+7°C	55°C	kW	14.31	14.31
	Max Heating Capacity	-7°C	55°C	kW	10.50	10.50
	Energy Efficiency Class - Low Temp Energy label		55°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.53/138	3.53/138
Operating Range	Space Heating Operation Outdoor			°C	-25 ~ 25	-25 ~ 25
	Hot Water Operation Outdoor			°C	-25 ~ 43	-25 ~ 43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	3.00	3.00
	Rated Water Flow	35°C	7°C	l/m	40.5	40.5
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	59/51	59/51
	Sound Power Outdoor (Rated-Silent)			dB(A)	70/63	70/63
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	88	88
Air Flow	Standard			l/s - m3/h		
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-25 / 25	5-25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.4/8 - 25	1.4/8 - 25
Electrical	Power Input Heating			kW	3	3
	Running Current Heating			Amps	14.20	14.20
	Maximum Running Current			Amps	28.8	28.8
	Suggested Outdoor Power Supply			V/ph/Hz/A	220-240/1/50/32	220-240/1/50/32
	Baseplate Tape heater			Watts	-	-
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				2 core + earth	2 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Wiring Specifications
- Noise Curve Data
- Installation Manual



ESTIA OUTDOOR 3PH: HWT 801H8W-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

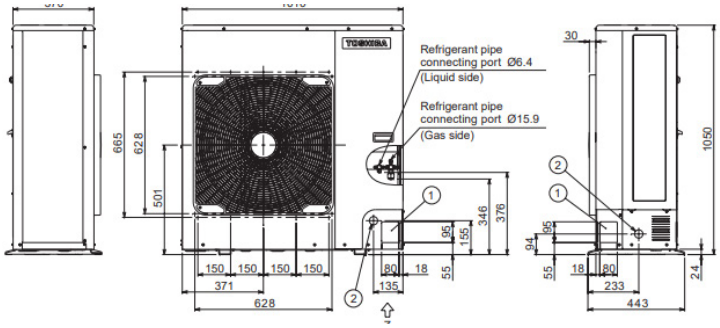
Performance						
Outdoor Unit				HWT-	801H8W-E	801H8RW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1101XWH**W-E	1101XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	8.0	8.0
	Max Heating Capacity	+7°C	35°C	kW	12.27	12.27
	COP	+7°C	35°C	W/W	5.06	5.06
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.51/177	4.51/177
	Max Heating Capacity	-7°C	35°C	kW	8.23	8.23
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	12.02	12.02
	Max Heating Capacity	-7°C	45°C	kW	8.12	8.12
	Max Heating Capacity	+7°C	55°C	kW	11.70	11.70
	Max Heating Capacity	-7°C	55°C	kW	8.00	8.00
	Energy Efficiency Class - Low Temp Energy label		55°C		A++	A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.36/132	3.36/132
Operating Range	Space Heating Operation Outdoor			°C	-25~25	-25~25
	Hot Water Operation Outdoor			°C	-25~43	-25~43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	1.55	1.55
	Rated Water Flow	35°C	7°C	l/m	23.0	23.0
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	50/49	50/49
	Sound Power Outdoor (Rated-Silent)			dB(A)	63/61	63/61
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	92	92
Air Flow	Standard			l/s - m3/h		
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-25 / 25	5-25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.3/8 - 25	1.3/8 - 25
Electrical	Power Input Heating			kW	1.55	1.55
	Running Current Heating			Amps	2.50	2.50
	Maximum Running Current			Amps	13	13
	Suggested Outdoor Power Supply			V/ph/Hz/A	380-415/3N/50/25	380-415/3N/50/25
	Baseplate Tape heater			Watts	-	150
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				4 core + earth	4 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Wiring Specifications
- Noise Curve Data
- Installation Manual



ESTIA OUTDOOR 3PH: HWT 1101H8(R)W-E

- Available in single phase.
- Compact and lightweight chassis.
- Outstanding performance even in extreme conditions down to -25°C.
- New generation of Toshiba ESTIA Air-to-Water heat pump split system R32.
- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

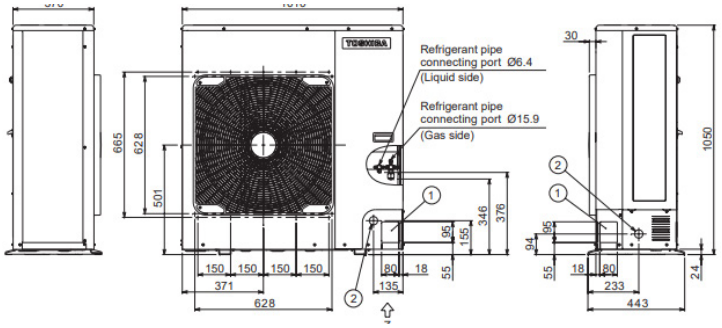
Performance						
Outdoor Unit				HWT-	1101H8W-E	1101H8RW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1101XWH**W-E	1101XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	11.0	11.0
	Max Heating Capacity	+7°C	35°C	kW	15.50	15.50
	COP	+7°C	35°C	W/W	4.74	4.74
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.56/179	4.56/179
	Max Heating Capacity	-7°C	35°C	kW	10.49	10.49
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	15.24	15.24
	Max Heating Capacity	-7°C	45°C	kW	10.33	10.33
	Max Heating Capacity	+7°C	55°C	kW	14.97	14.97
	Max Heating Capacity	-7°C	55°C	kW	10.17	10.17
	Energy Efficiency Class - Low Temp Energy label		55°C		A++	A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.52/138	3.52/138
Operating Range	Space Heating Operation Outdoor			°C	-25~25	-25~25
	Hot Water Operation Outdoor			°C	-25~43	-25~43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	2.3	2.3
	Rated Water Flow	35°C	7°C	l/m	32.1	32.1
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	58/49	58/49
	Sound Power Outdoor (Rated-Silent)			dB(A)	70/61	70/61
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	92	92
Air Flow	Standard			l/s - m3/h		
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-25 / 25	5-25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.3/8 - 25	1.3/8 - 25
Electrical	Power Input Heating			kW	2.3	2.3
	Running Current Heating			Amps	3.63	3.63
	Maximum Running Current			Amps	13	13
	Suggested Outdoor Power Supply			V/ph/Hz/A	380-415/3N/50/25	380-415/3N/50/25
	Baseplate Tape heater			Watts	-	150
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				4 core + earth	4 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

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- Available in single phase.
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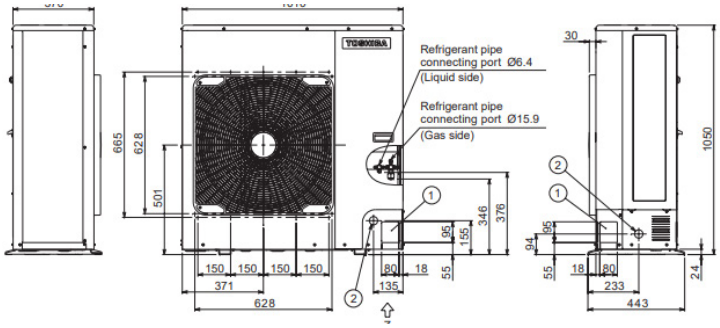
Performance						
Outdoor Unit				HWT-	1401H8W-E	1401H8RW-E
Hydro Indoor Unit		Air T°	Water T°	HWT-	1401XWH**W-E	1401XWH**W-E
Under Floor Heating	Nominal Heating Capacity	+7°C	35°C	kW	14.0	14.0
	Max Heating Capacity	+7°C	35°C	kW	18.39	18.39
	COP	+7°C	35°C	W/W	4.60	4.60
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++	A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.57/183	4.57/183
	Max Heating Capacity	-7°C	35°C	kW	13.05	13.05
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	17.89	17.89
	Max Heating Capacity	-7°C	45°C	kW	12.81	12.81
	Max Heating Capacity	+7°C	55°C	kW	11.56	18.15
	Max Heating Capacity	-7°C	55°C	kW	9.80	12.61
	Energy Efficiency Class - Low Temp Energy label		55°C		A++	A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.55/138	3.55/138
Operating Range	Space Heating Operation Outdoor			°C	-25~25	-25~25
	Hot Water Operation Outdoor			°C	-25~43	-25~43
	Hydro Heating Operation Indoor			°C	+20 ~ 65	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	3.04	3.04
	Rated Water Flow	35°C	7°C	l/m	40.5	40.5
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	59/50	59/50
	Sound Power Outdoor (Rated-Silent)			dB(A)	70/62	70/62
Unit	Height X Width X Depth			mm	1050 x 1010 x 370	1050 x 1010 x 370
	Weight			kg	92	92
Air Flow	Standard			l/s - m3/h		
Pipe Connection	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Connection			mm	16	16
	Min.-Max. Length / Max Height Difference			m	5-25 / 25	5-25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.4/8 25	1.4/8 25
Electrical	Power Input Heating			kW	3.04	3.04
	Running Current Heating			Amps	4.60	4.60
	Maximum Running Current			Amps	13	13
	Suggested Outdoor Power Supply			V/ph/Hz/A	380-415/3N/50/25	380-415/3N/50/25
	Baseplate Tape heater			Watts	-	150
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth
	Wiring Connection Power to Outdoor Unit				4 core + earth	4 core + earth

Accessories	
TCB-PCIN3E	Error Output Control Board
TCB-PCM03E	External Input PCB

*All Accessories / Controls

Related Items:

- BIM Files
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ESTIA HYDRO UNIT: HWT - 601XWHM*W-E

- Ideal for new constructions and renovation.
- Remote Controller with Expanded Function.
- Smart Grid Ready with energy labels of A+++.
- ESTIA R32 wall mounted Hydro unit with space efficient design.
- Optimise flow rate control with flow sensor and variable flow pump.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

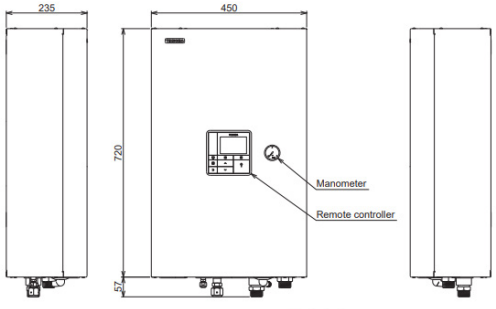
Performance				
Hydro Unit		HWT-	**601XWHM3W-E**	**601XWHM6W-E**
Heat Exchanger	Type		Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	**20~55**	**20~55**
	Operation Temperature Range Cooling	°C	7~25	7~25
	Piping Maximum Length	m	none	none
	Piping Maximum Height Difference	m	±7	±7
	Piping Maximum Working Pressure	kPa	430	430
	Heat Exchanger Volume	litres	0.67	0.67
	Heat Exchanger Minimum Flow Rate	l/m	10	10
Circulating Pump	Type		Centrifugal	Centrifugal
	Maximum Motor Output	Watts	60	60
	Flow Rate	l/m	11.6~17.3	11.6~17.3
	Delivery Head	m	7.5	7.5
	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	0.43 - 4.3	0.43 - 4.3
Sound	Pressure Level	dB(A)	29	29
	Sound Power Hydro	dB(A)	40	40
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1	R1
	Refrigerant Piping (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16
Unit	Height x Width x Depth	mm	720 x 450 x 235	720 x 450 x 235
	Weight	kg	27	27
	Back Up Heater Power Supply	V/ph/Hz	220~240-1-50	220~240-1-50
	Back Up Heater Power/Maximum Current	kW/Amps	3.0/13	6.0/13 x 2
	Remote Controller Standard Model *3		HWS-AMSU51-E	HWS-AMSU51-E
	Interconnection Cable to Outdoor Indoor		2 core + earth	2 core + earth
	Wiring Connection Power to Hydro Unit		2 core + earth	2 core + earth
	Suggested Fused Supply Hydro Unit	Amps	16	16

Accessories	
HWS-AMSU51-E	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
HWS-IWF0010UP-E	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
HWS-IFAIP01U-E	0-10V Interface - External control (max. 3 inputs) for Estia

*All Accessories / Controls

Related Items - **601XWHM*W-E**

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual
- Owners Manual



ESTIA HYDRO UNIT: HWT - 1101XWHM*W-E

- Ideal for new constructions and renovation.
- Remote Controller with Expanded Function.
- Smart Grid Ready with energy labels of A+++.
- ESTIA R32 wall mounted Hydro unit with space efficient design.
- Optimise flow rate control with flow sensor and variable flow pump.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

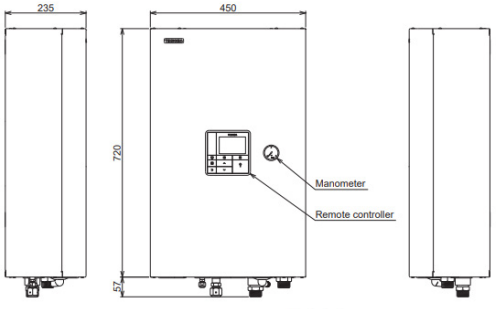
Performance				
Hydro Unit		HWT-	**1101XWHM3W-E**	**1101XWHM6W-E**
Heat Exchanger	Type		Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20~65	20~65
	Operation Temperature Range Cooling	°C	7~25	7~25
	Piping Maximum Length	m	none	none
	Piping Maximum Height Difference	m	±7	±7
	Piping Maximum Working Pressure	kPa	430	430
	Heat Exchanger Volume	litres	0.67	0.67
	Heat Exchanger Minimum Flow Rate	l/m	13	13
Circulating Pump	Type		Centrifugal	Centrifugal
	Maximum Motor Output	Watts	60	60
	Flow Rate	l/m	23.1~31.8	23.1~31.8
	Delivery Head	m	7.5	7.5
	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	0.43 - 4.3	0.43 - 4.3
Sound	Pressure Level	dB(A)	29	29
	Sound Power Hydro	dB(A)	40	40
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1	R1
	Refrigerant Piping (gas - liquid)	inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16
Unit	Height x Width x Depth	mm	720 x 450 x 235	720 x 450 x 235
	Weight	kg	27	27
	Back Up Heater Power Supply	V/ph/Hz	220~240-1-50	220~240-1-50
	Back Up Heater Power/Maximum Current	kW/Amps	3.0/13	6.0/13 x 2
	Remote Controller Standard Model *3		HWS-AMSU51-E	HWS-AMSU51-E
	Interconnection Cable to Outdoor Indoor		2 core + earth	2 core + earth
	Wiring Connection Power to Hydro Unit		2 core + earth	2 core + earth
	Suggested Fused Supply Hydro Unit	Amps	16	16

Accessories	
HWS-AMSU51-E	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
HWS-IWF0010UP-E	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
HWS-IFAIP01U-E	0-10V Interface - External control (max. 3 inputs) for Estia

*All Accessories / Controls

Related Items - **1101XWHM*W-E:**

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual
- Owners Manual



ESTIA HYDRO UNIT: HWT - 1401XWHM*W-E

- Ideal for new constructions and renovation.
- Remote Controller with Expanded Function.
- Smart Grid Ready with energy labels of A+++.
- ESTIA R32 wall mounted Hydro unit with space efficient design.
- Optimise flow rate control with flow sensor and variable flow pump.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

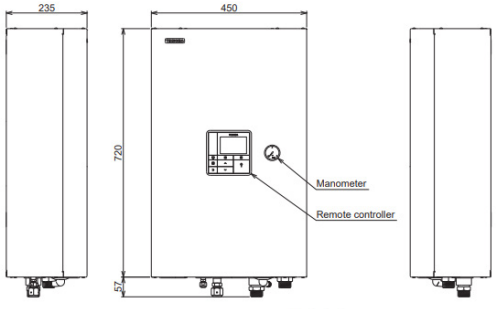
Performance				
Hydro Unit		HWT-	**1401XWHM3W-E**	**1401XWHM6W-E**
Heat Exchanger	Type		Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20~65	20~65
	Operation Temperature Range Cooling	°C	7~25	7~25
	Piping Maximum Length	m	none	none
	Piping Maximum Height Difference	m	±7	±7
	Piping Maximum Working Pressure	kPa	430	430
	Heat Exchanger Volume	litres	0.67	0.67
	Heat Exchanger Minimum Flow Rate	l/m	13	13
Circulating Pump	Type		Centrifugal	Centrifugal
	Maximum Motor Output	Watts	60	60
	Flow Rate	l/m	23.1~31.8	23.1~31.8
	Delivery Head	m	7.5	7.5
	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	0.43 - 4.3	0.43 - 4.3
Sound	Pressure Level	dB(A)	29	29
	Sound Power Hydro	dB(A)	40	40
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1	R1
	Refrigerant Piping (gas - liquid)	inch	5/8 - 1/4	5/8 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16
Unit	Height x Width x Depth	mm	720 x 450 x 235	720 x 450 x 235
	Weight	kg	27	27
	Back Up Heater Power Supply	V/ph/Hz	220~240-1-50	220~240-1-50
	Back Up Heater Power/Maximum Current	kW/Amps	3.0/13	6.0/13 x 2
	Remote Controller Standard Model *3		HWS-AMSU51-E	HWS-AMSU51-E
	Interconnection Cable to Outdoor Indoor		2 core + earth	2 core + earth
	Wiring Connection Power to Hydro Unit		2 core + earth	2 core + earth
	Suggested Fused Supply Hydro Unit	Amps	16	16

Accessories	
HWS-AMSU51-E	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
HWS-IWF0010UP-E	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
HWS-IFAIP01U-E	0-10V Interface - External control (max. 3 inputs) for Estia

*All Accessories / Controls

Related Items - **1401XWHM*W-E**:

- BIM Files
- CAD Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual
- Owners Manual



ESTIA DOMESTIC HOT WATER TANK: HWS - 1501CSHM3-UK

- Compact Stainless steel tanks.
- Available in 150, 210 and 300L capacity.
- In-Built immersion heater for all models (2.75kW).
- Pre-placed Toshiba sensors for optimized efficiency.
- Compatible with all ESTIA hydro units and the perfect DHW solution.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Domestic Hot Water Tank		**HWS-**	**1501CSHM3-UK**
Water	Volume	litres	150
	Maximum Temperature	°C	75
Operating Range	Standing Heat Loss	kWh/day	1.45
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0
	Opening Temperature of T&P Relief Valve	°C	90
	Opening Pressure of T&P Relief Valve	mPa - bar	1.0 - 10
Unit	Material		Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181
	Insulation		Polyurethane foam
	Height - Diameter	mm	1090 - 550
	Weight Net	kg	31
Electrical	Heater	kW	2.75
	Power Supply	V/ph/Hz	220-240/1/50
	Suggested Fused Supply	Amps	16

Outdoor Unit (1ph)		**40/601HW-E**	**80/1101H(R)W-E**	**1401H(R)W-E**
Indoor Unit		**Wall Mounted Hydro**		
Model	**HWS-**	**1501CSHM3-E**	**1501CSHM3-E**	**1501CSHM3-E**
capacity	litres	150	150	150
Climate		Average	Average	Average
Load profile		L	L	L
nwh	%	120	106	112
COPdhw	kW/kW	2.83	2.53	2.65
DHW Energy Efficiency Class		A+	A	A

Outdoor Unit (3ph)		**80/1101H8(R)W-E**	**1401H8(R)W-E**
Indoor Unit		**Wall Mounted Hydro**	
Model	**HWS-**	**1501CSHM3-E**	**1501CSHM3-E**
capacity	litres	150	150
Climate		Average	Average
Load profile		L	L
nwh	%	104	112
COPdhw	kW/kW	2.59	2.65
Energy Class		A	A

*All Accessories / Controls

Related Items:

- Cad Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual

ESTIA DOMESTIC HOT WATER TANK: HWS - 12101CSHM3-UK

- Compact Stainless steel tanks.
- Available in 150, 210 and 300L capacity.
- In-Built immersion heater for all models (2.75kW).
- Pre-placed Toshiba sensors for optimized efficiency.
- Compatible with all ESTIA hydro units and the perfect DHW solution.



Hi - Res Image

Retail Price (interactive icons):

UK £ ROI €

Performance			
Domestic Hot Water Tank		**HWS-**	**2101CSHM3-UK**
Water	Volume	litres	210
	Maximum Temperature	°C	75
Operating Range	Standing Heat Loss	kWh/day	1.91
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0
	Opening Temperature of T&P Relief Valve	°C	90
	Opening Pressure of T&P Relief Valve	mPa - bar	1.0 - 10
Unit	Material		Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	210 - 251
	Insulation		Polyurethane foam
	Height - Diameter	mm	1474 - 550
	Weight Net	kg	41
Electrical	Heater	kW	2.75
	Power Supply	V/ph/Hz	220-240/1/50
	Suggested Fused Supply	Amps	16

Outdoor Unit (1ph)		**40/601HW-E**	**80/1101H(R)W-E**	**1401H(R)W-E**
Indoor Unit		**Wall Mounted Hydro**		
Model	**HWS-**	**2101CSHM3-E**	**2101CSHM3-E**	**2101CSHM3-E**
capacity	litres	210	210	210
Climate		Average	Average	Average
Load profile		L	XL	XL
nwh	%	115	118	107
COPdhw	kW/kW	2.72	2.83	2.6
DHW Energy Efficiency Class		A+	A	A

Outdoor Unit (3ph)		**80/1101H8(R)W-E**	**1401H8(R)W-E**
Indoor Unit		**Wall Mounted Hydro**	
Model	**HWS-**	**2101CSHM3-E**	**2101CSHM3-E**
capacity	litres	210	210
Climate		Average	Average
Load profile		L	XL
nwh	%	113	107
COPdhw	kW/kW	2.75	2.6
Energy Class		A	A

*All Accessories / Controls

Related Items:

- Cad Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual

ESTIA DOMESTIC HOT WATER TANK: HWS - 3001CSHM3-UK

- Compact Stainless steel tanks.
- Available in 150, 210 and 300L capacity.
- In-Built immersion heater for all models (2.75kW).
- Pre-placed Toshiba sensors for optimized efficiency.
- Compatible with all ESTIA hydro units and the perfect DHW solution.



Hi - Res Image

Retail Price (interactive icons):

UK ROI

Performance			
Domestic Hot Water Tank		**HWS-**	**3001CSHM3-UK**
Water	Volume	litres	300
	Maximum Temperature	°C	75
Operating Range	Standing Heat Loss	kWh/day	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0
	Opening Temperature of T&P Relief Valve	°C	90
	Opening Pressure of T&P Relief Valve	mPa - bar	1.0 - 10
Unit	Material		Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	300 - 360
	Insulation		Polyurethane foam
	Height - Diameter	mm	2040 - 550
	Weight Net	kg	60
Electrical	Heater	kW	2.75
	Power Supply	V/ph/Hz	220-240/1/50
	Suggested Fused Supply	Amps	16

Outdoor Unit (1ph)		**40/601HW-E**	**80/1101H(R)W-E**	**1401H(R)W-E**
Indoor Unit		**Wall Mounted Hydro**		
Model	**HWS-**	**3001CSHM3-E**	**3001CSHM3-E**	**3001CSHM3-E**
capacity	litres	300	300	300
Climate		Average	Average	Average
Load profile		XL	XL	XL
nwh	%	122	113	106
COPdhw	kW/kW	2.93	2.71	2.54
DHW Energy Efficiency Class		A	A	A

Outdoor Unit (3ph)		**80/1101H8(R)W-E**	**1401H8(R)W-E**
Indoor Unit		**Wall Mounted Hydro**	
Model	**HWS-**	**3001CSHM3-E**	**3001CSHM3-E**
capacity	litres	300	300
Climate		Average	Average
Load profile		XL	XL
nwh	%	110	106
COPdhw	kW/kW	2.66	2.54
Energy Class		A	A

*All Accessories / Controls

Related Items:

- Cad Files
- Full Specification
- Dimensional Drawing
- Wiring Diagram
- Piping Diagram
- Installation Manual

ESTIA CONTROLS & ACCESSORIES



CONTROLS

	Image	Model Reference	Application	Description	Related Items
Wired Controls		HWS-AMS54E	Wired Remote	Estia Standard Remote Controller	Installation Manual
		HWS-AMSU51-E		Optional 2nd Remote Controller	Installation Manual

	Image	Model Reference	Application	Description	Related Items
Indoor Interface		HWS-IFAIP01U-E	0-10V	Connection interface	Installation Manual
		HWS-IWF0010UP-E	WI-FI	Connection interface	Owners Manual

	Image	Model Reference	Application	Description	Related Items
Outdoor Interface		TCB-PCIN3E	Output	Error Control Board	Contact Toshiba Technical
		TCB-PCMO3E	Input	Control PCB	Installation Manual

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