

# TOSHIBA

**CDL**  
Cool Designs Ltd



## RESIDENTIAL (INCLUDING A2W) PRODUCT SPECIFICATION



ENERGY EFFICIENT



CARBON NEUTRAL



INNOVATIVE



CUSTOMER CENTRIC

# > COMMITMENT TO BETTER AIR SOLUTIONS



## Better Air Solutions

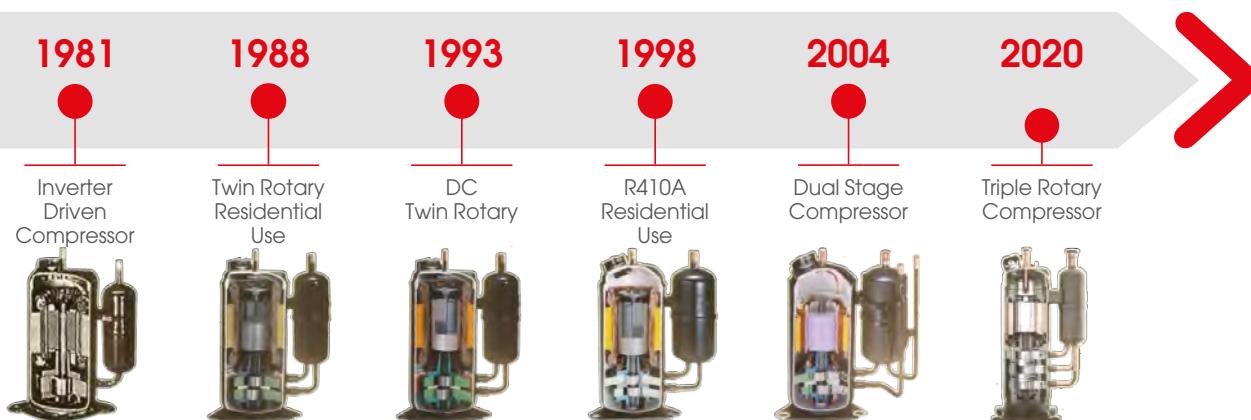


Toshiba Air Conditioning supports Carrier's 2030 Environmental, Social, and Governance (ESG) goals, including the goal to reduce its customers' carbon footprint by more than 1 gigaton. We help to address climate change by going further than just products and beyond their basic functions, to create reliable 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.





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](#)).



ISO  
9001  
Quality  
Management

ISO  
14001  
Environmental  
Management

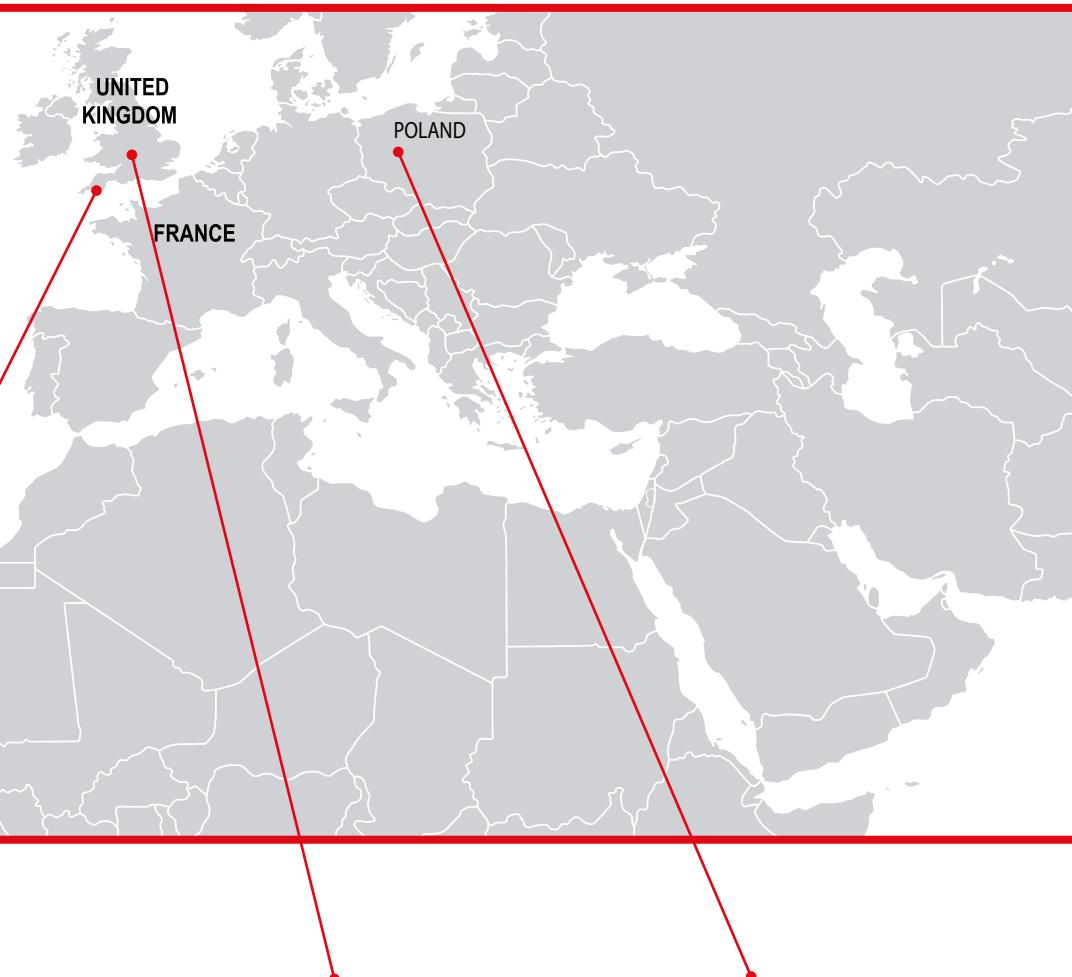
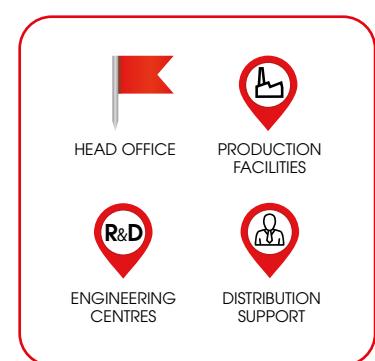
OHSAS  
18001  
Occupational  
Health & Safety  
Management

**Cool Designs Ltd**

Raising the Standards in Air Conditioning Distribution

# > 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



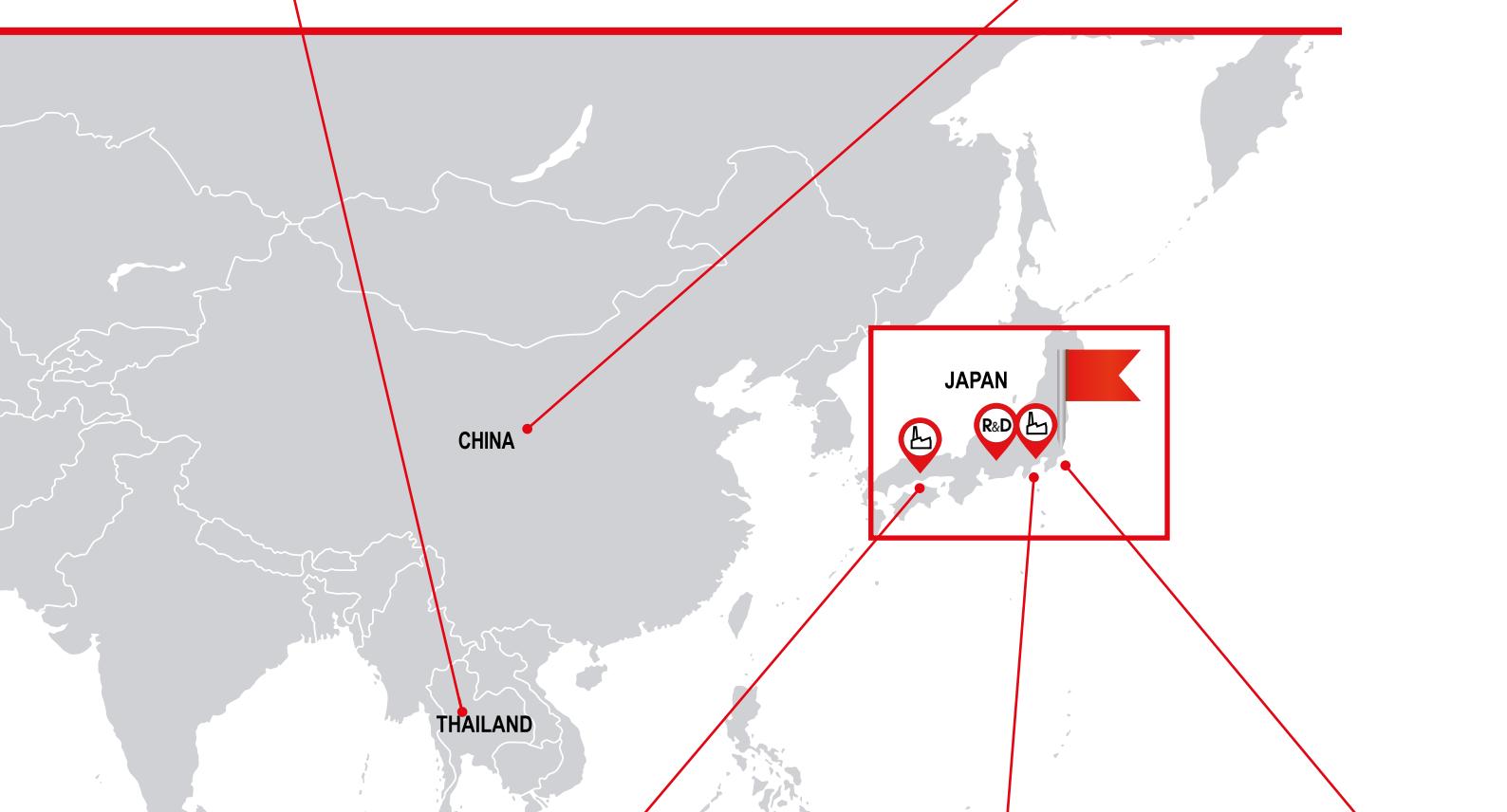
TCUK  
TRAINING CENTRE OF EXCELLENCE



GNIEZNO, POLAND



TCAE - PRODUCTION FACILITIES  
and  
TCAE - ENGINEERING CENTRE



TCTC - ENGINEERING CENTRE  
and  
TCTC - PRODUCTION FACILITIES



TCAC - PRODUCTION FACILITIES



TCC - PRODUCTION FACILITIES



TCC - PRODUCTION FACILITIES  
and  
TCC - ENGINEERING CENTRE



TCC - HEAD OFFICE

**Cool Designs Ltd**

Raising the Standards in Air Conditioning Distribution

# ➤ 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](http://www.eurovent-certificate.com)

For Estia certification, refer to Keymark heat pump certification program:

[www.heatpumpkeymark.com](http://www.heatpumpkeymark.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**

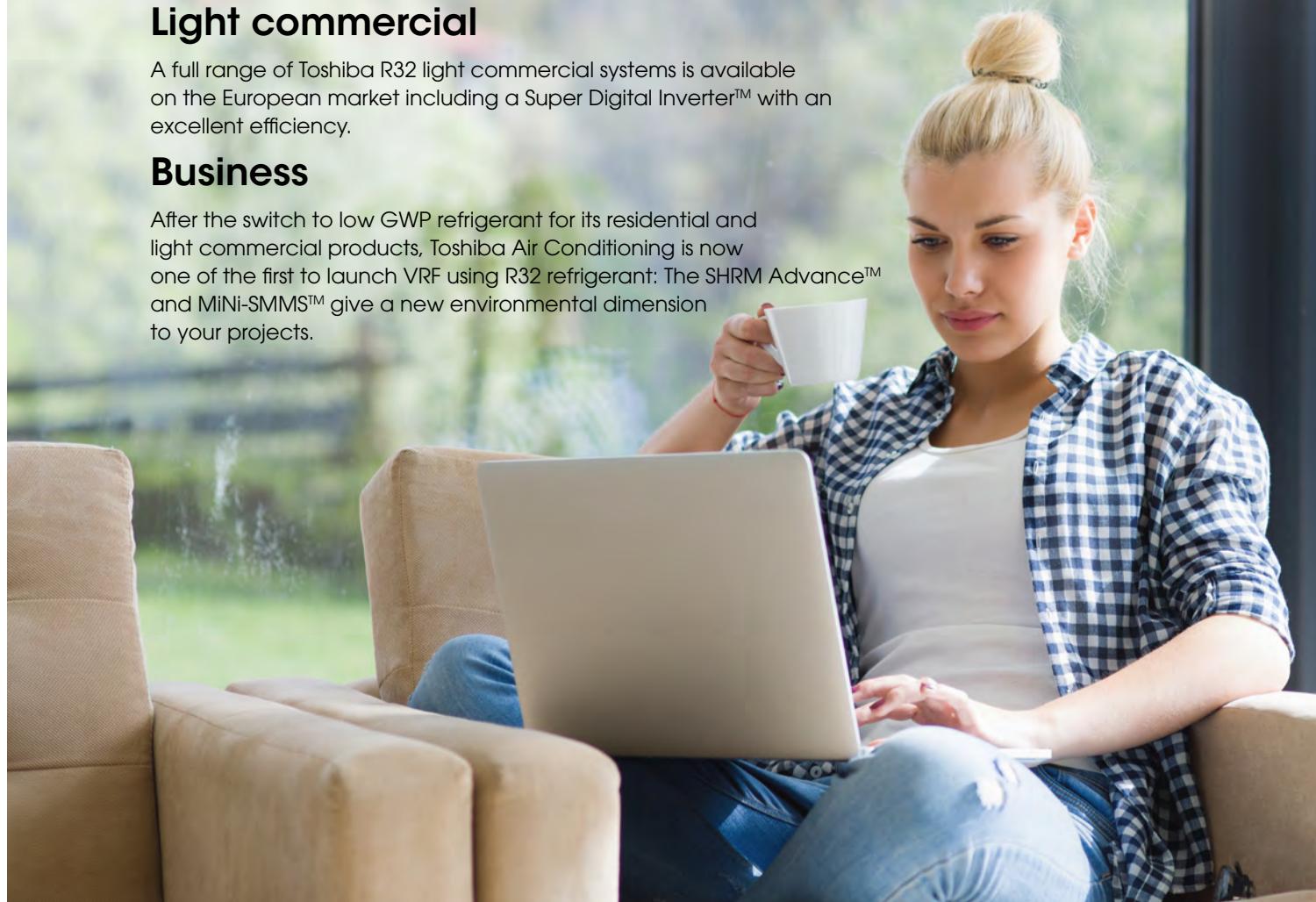
HAORI™ is a truly elegant air conditioner, featuring a stylish textile fabric cover that uses Toshiba inverter and compressor technology with R32 refrigerant, offering A+++ performance and year-round comfort.

### **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

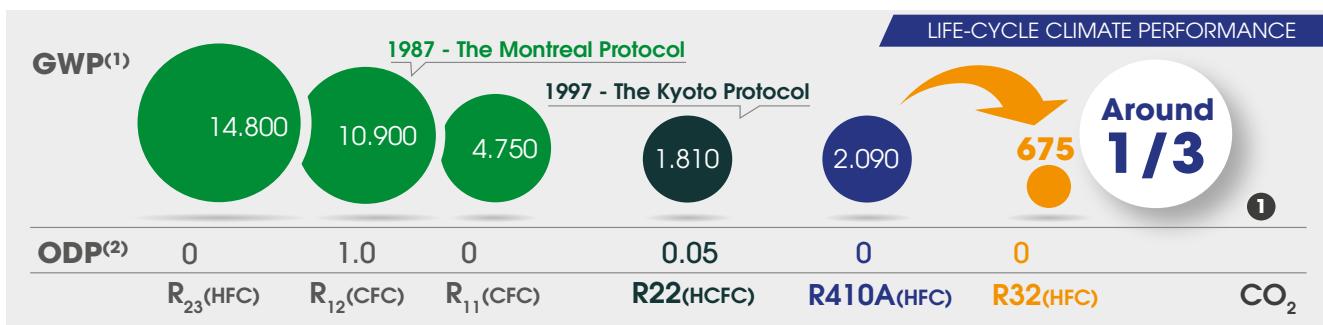
Liquid injection technology

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

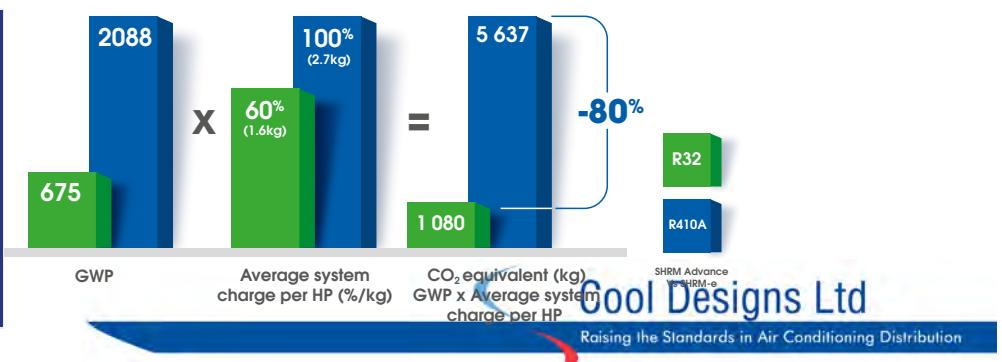


<sup>(1)</sup> Global Warming Potential  
<sup>(2)</sup> Ozone Depletion Potential

#### 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<sub>2</sub> 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 CO<sub>2</sub>), 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<sub>2</sub>

## > 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 <sub>2</sub> 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 <sub>2</sub> equivalent	23.8 and 238kg R32	74.1 and 740kg R32	Every 6 months	Every 12 months
More than 500 tonnes CO <sub>2</sub> 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](http://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 One temperature requirement	SEER SCOP Numerous rating temperatures (range of average temperatures)	EER COP Auxiliary power modes are not considered	SEER SCOP 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.

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

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



## 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<sub>2</sub> 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](http://www.ecodesign.toshiba-airconditioning.eu)



# EXPERIENCE THE FUTURE

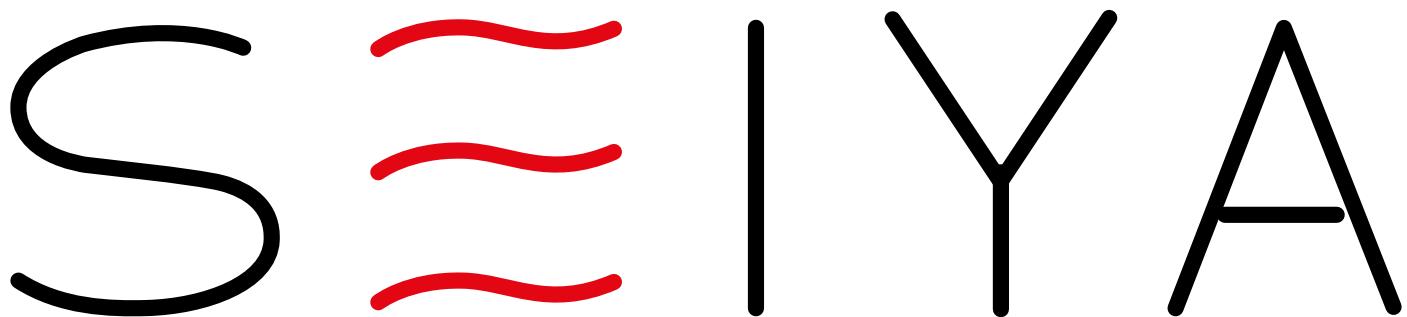
## TO GUIDE YOU

- |                          |                         |                |                     |                     |                |                   |               |                        |                   |                 |                   |
|--------------------------|-------------------------|----------------|---------------------|---------------------|----------------|-------------------|---------------|------------------------|-------------------|-----------------|-------------------|
|                          |                         |                |                     |                     |                |                   |               |                        |                   |                 |                   |
| 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       | REDUCED FOOTPRINT | STATIC PRESSURE |                   |
|                          |                         |                |                     |                     |                |                   |               |                        |                   |                 |                   |
| INDIVIDUAL HOUSING       | REFURBISHMENT           | SHOPS          | RETAIL              | BUSINESSES          | ADMINISTRATION | HOTELS            | HEALTHCARE    | OFFICES                |                   |                 |                   |

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# TOSHIBA

## PRODUCT SPECIFICATION



### SEIYA: RAS - B05E2KVG-E

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



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	15			
<b>Performance</b>				
Indoor Unit	RAS-		B05E2KVG-E	
Outdoor Unit	RAS-		<a href="#">05E2AVG-E</a>	
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	
	Range Min. - Max.	kW	0.75 - 2.00	
	Power Input	kW	0.36	
Cooling EN14825	Pdesign	kW	1.5	
	SEER/Energy Efficiency Class		6.90/A++	
	Seasonal Energy Consumption	kWh/a	76	
	Range Min. - Max.	kW	0.8 - 3.00	
	Power Input	kW	0.47	
Heating EN14825	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

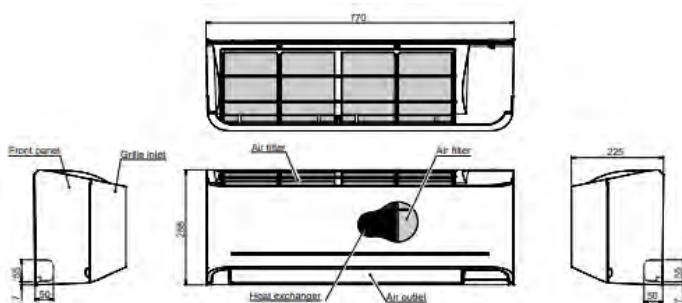
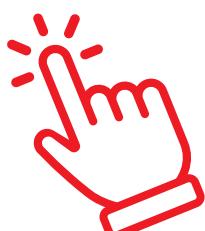
#### Accessories

<a href="#">RB-RXS33-E</a>	Option Remote Controller (Weekly Timer)
<a href="#">RB-RXS34-E</a>	Option Black remote
<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [Owners Manual](#)



### SEIYA: RAS - B07E2KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Compatible with Wi-Fi when utilizing adapter.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	20			
<b>Performance</b>				
Indoor Unit	RAS-			
Outdoor Unit	RAS-			
Nominal	Cooling Capacity Heating Capacity EER/COP	kW kW W/W	2.0 2.5 3.77/3.91	
UK	Cooling Total/Sensible Heating	kW kW	1.95/1.57 1.60	
Cooling EN14825	Range Min. - Max. Power Input Pdesign SEER/Energy Efficiency Class	kW kW kW	0.76 - 2.60 0.53 2.0 6.20/A++	
	Seasonal Energy Consumption	kWh/a	113	
Heating EN14825	Range Min. - Max. Power Input Pdesign SCOP/Energy Efficiency Class	kW kW kW	0.82 - 3.30 0.64 2.0 4.60/A++	
	Seasonal Energy Consumption	kWh/a	609	

#### Indoor Data

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

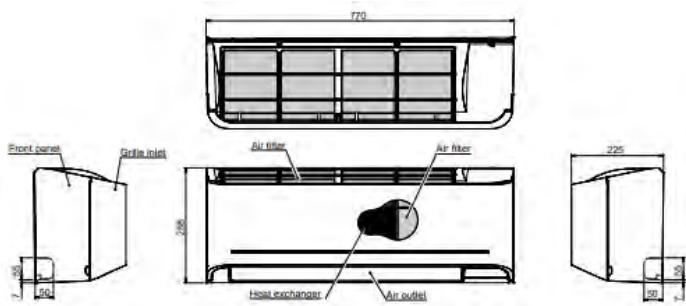
#### Accessories

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\*All [Accessories / Controls](#)

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### SEIYA: RAS - B10E2KVG-E

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



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	25			
<b>Performance</b>				
Indoor Unit	RAS-		B10E2KVG-E	
Outdoor Unit	RAS-		<a href="#">10E2AVG-E</a>	
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	
	Range Min. - Max.	kW	0.80 - 3.00	
	Power Input	kW	0.70	
Cooling EN14825	Pdesign	kW	2.5	
	SEER/Energy Efficiency Class		7.00/A++	
	Seasonal Energy Consumption	kWh/a	125	
	Range Min. - Max.	kW	0.95 - 3.90	
	Power Input	kW	0.86	
Heating EN14825	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

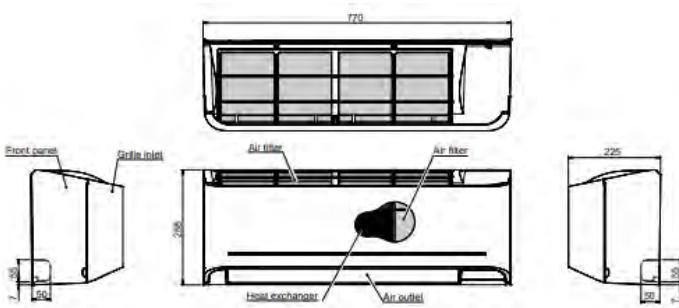
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### SEIYA: RAS - B13E2KVG-E1

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



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	ENTRY TIER PRODUCT RANGE			33
Performance				
Indoor Unit	RAS-			B13E2KVG-E1
Outdoor Unit	RAS-			<a href="#">13E2AVG-E</a>
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
	Range Min. - Max.	kW		1.20 - 3.60
	Power Input	kW		1.00
Cooling EN14825	Pdesign	kW		3.3
	SEER/Energy Efficiency Class			7.00/A++
	Seasonal Energy Consumption	kWh/a		165
	Range Min. - Max.	kW		0.97 - 4.50
	Power Input	kW		0.87
Heating EN14825	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

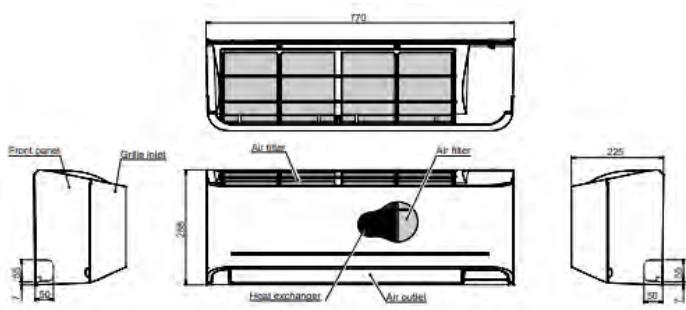
#### Accessories

<a href="#">RB-RXS33-E</a>	Option Remote Controller (Weekly Timer)
<a href="#">RB-RXS34-E</a>	Option Black remote
<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [Owners Manual](#)



**Cool Designs Ltd**

Raising the Standards in Air Conditioning Distribution

### SEIYA: RAS - B16E2KVG-E

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



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	42			
<b>Performance</b>				
Indoor Unit	RAS-		B16E2KVG-E	
Outdoor Unit	RAS-		<a href="#">16E2AVG-E</a>	
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	
	Range Min. - Max.	kW	1.40 - 4.70	
	Power Input	kW	1.27	
Cooling EN14825	Pdesign	kW	4.2	
	SEER/Energy Efficiency Class		7.00/A++	
	Seasonal Energy Consumption	kWh/a	210	
	Range Min. - Max.	kW	1.30 - 6.00	
	Power Input	kW	1.34	
Heating EN14825	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

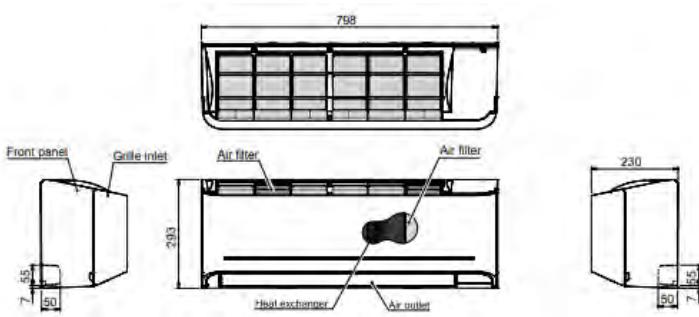
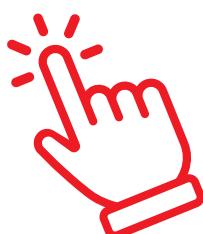
#### Accessories

<a href="#">RB-RXS33-E</a>	Option Remote Controller (Weekly Timer)
<a href="#">RB-RXS34-E</a>	Option Black remote
<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [Owners Manual](#)



### SEIYA: RAS - B18E2KVG-E

- A++ in both Heating and cooling.
- Power supply to indoor or outdoor unit.
- Compatible with Wi-Fi when utilizing adapter.
- Sleek and compact suitable for all applications.
- Available in both single and multi split applications.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	50		
<b>Performance</b>			
Indoor Unit	RAS-	B18E2KVG-E	
Outdoor Unit	RAS-	<a href="#">18E2AVG-E</a>	
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
	Range Min. - Max.	kW	1.45 - 5.50
	Power Input	kW	1.50
Cooling EN14825	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	250
	Range Min. - Max.	kW	1.35 - 6.00
	Power Input	kW	1.50
Heating EN14825	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

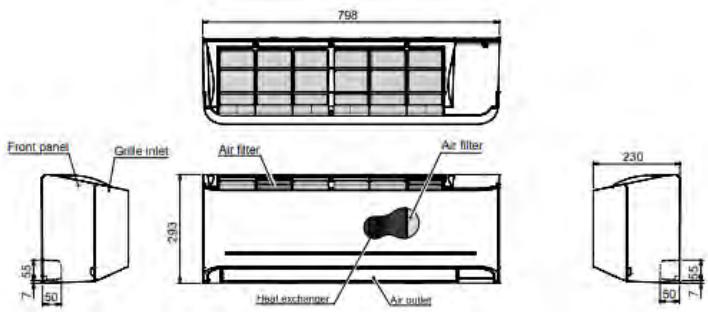
#### Accessories

<a href="#">RB-RXS33-E</a>	Option Remote Controller (Weekly Timer)
<a href="#">RB-RXS34-E</a>	Option Black remote
<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [Owners Manual](#)



**Cool Designs Ltd**

Raising the Standards in Air Conditioning Distribution

### SEIYA: RAS - B24E2KVG-E

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



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE	ENTRY TIER PRODUCT RANGE			65
Performance				
Indoor Unit	RAS-			B24E2KVG-E
Outdoor Unit	RAS-			<a href="#">24E2AVG-E</a>
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
	Range Min. - Max.	kW		1.7 - 7.2
	Power Input	kW		2.25
Cooling EN14825	Pdesign	kW		6.5
	SEER/Energy Efficiency Class			6.90/A++
	Seasonal Energy Consumption	kWh/a		330
	Range Min. - Max.	kW		1.5 - 8.1
	Power Input	kW		2.10
Heating EN14825	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

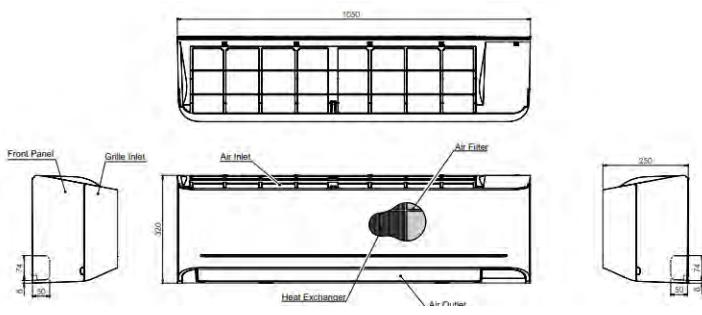
#### Accessories

<a href="#">RB-RXS33-E</a>	Option Remote Controller (Weekly Timer)
<a href="#">RB-RXS34-E</a>	Option Black remote
<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### ENTRY TIER PRODUCT RANGE

CODE		15	20	25
Performance				
Outdoor Unit	RAS-	05E2AVG-E	07E2AVG-E	10E2AVG-E
Operating Range	Cooling Heating	C° -15 ~ 46 -15 ~ 24	-15 ~ 46 -15 ~ 24	-15 ~ 46 -15 ~ 24
Air Flow	High	m3/h - l/s	1690 - 470	1800 - 500
Sound	Pressure High Cooling/Heating/Silent	dB(A)	47 / 48 / 42	47 / 49 / 42
	Power High Cooling/Heating/Silent	dB(A)	60 / 61 / 55	60 / 62 / 55
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240
	Weight	kg	21	21
	Flare Connections (gas-liquid)	inch	3/8" - 1/4"	3/8" - 1/4"
Pipe Connection	Min.-Max. Length	m	2-15	2-15
	Maximum Height Difference	m	±12	±12
	Drain Port Connection	mm	16	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.34/15	0.34/15
	Additional Charge	g/m	0	0
Run Current	Maximum	Amps	5.00	5.40
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 - 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](#)

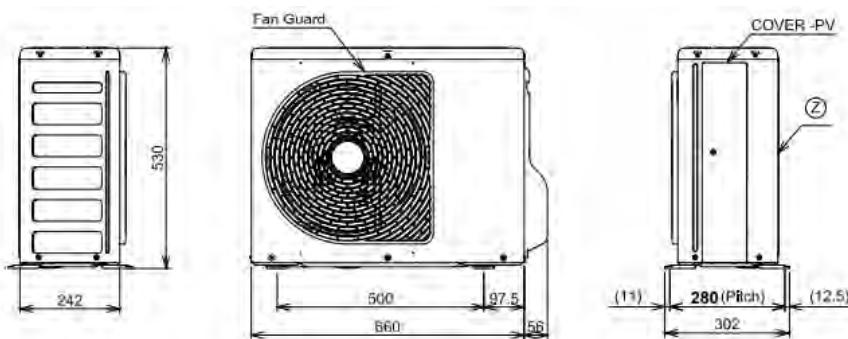


#### Related Items - 10E2AVG-E

- [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

CODE		33	42
Performance			
Outdoor Unit			
Operating Range	Cooling Heating	C°	-15 ~ 46 -15 ~ 24
Air Flow	High	m3/h - l/s	1980 - 550
Sound	Pressure High Cooling/Heating/Silent Power High Cooling/Heating/Silent	dB(A)	48 / 49 / 43 61 / 62 / 56
Unit	Height x Width x Depth Weight	mm kg	530 x 660 x 240 22
Pipe Connection	Flare Connections (gas-liquid) Min.-Max. Length Maximum Height Difference Drain Port Connection	inch m m	3/8" - 1/4" 2-15 ±12
Refrigerant Charge	Base Charge/Chargeless Length Additional Charge	m g/m	0.54/15 0
Run Current	Maximum	Amps	7.40
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

#### Related Items - 13E2AVG-E

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)

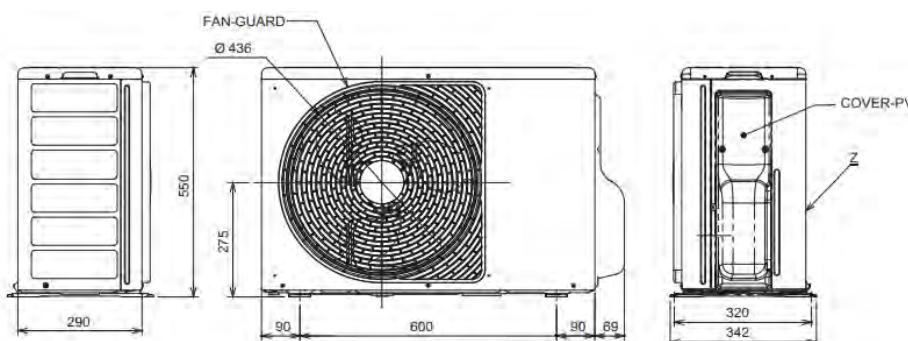


#### Related Items - 16E2AVG:

- [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

CODE	50			65
Performance				
Outdoor Unit	RAS-	18E2AVG-E		24E2AVG-E
Operating Range	Cooling Heating	C°	-15 ~ 46 -15 ~ 24	-15 ~ 46 -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
	Flare Connections (gas-liquid)	inch	1/2" - 1/4"	1/2" - 1/4"
Pipe Connection	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](#)

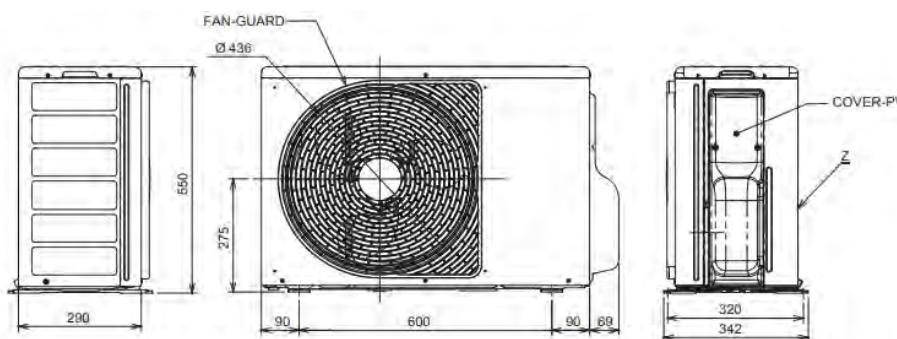


#### Related Items - 24E2AVG-E:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



\*All [Accessories / Controls](#)

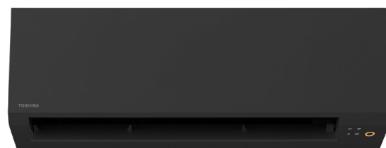


# SHORAI EDGE



### SHORAI EDGE: RAS - B07G3KVSG(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

CODE	20		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B07G3KVSGB-E
Indoor Unit	White	RAS-	B07G3KVSG-E
Outdoor Unit		RAS-	<a href="#">07J2AVSG-E1</a>
Nominal	Cooling Capacity	kW	2.0
	Heating Capacity	kW	2.5
	EER/COP	W/W	5.13/5.00
UK	Cooling Total/Sensible	kW	2.44/2.03
	Heating	kW	2.05
	Range Min. - Max.	kW	0.89 - 2.90
	Power Input	kW	0.39
Cooling EN14825	Pdesign	kW	2.0
	SEER/Energy Efficiency Class		8.50/A+++
	Seasonal Energy Consumption	kWh/a	82
	Range Min. - Max.	kW	0.90 - 3.60
	Power Input	kW	0.50
Heating EN14825	Pdesign	kW	2.3
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	631

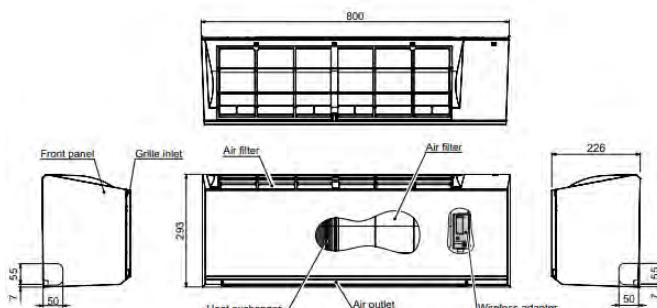
#### Indoor Data

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](#)

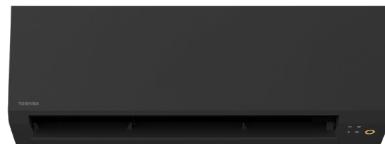
#### Related Items:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Airflow/ Fan Curve](#)
- [Installation Manual](#)
- [Owners Manual](#)



### SHORAI EDGE: RAS - 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

ROI BLACK

UK ROI

ROI WHITE

Hi - Res Image

#### MID TIER PRODUCT RANGE

CODE	25		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B10G3KVSGB-E
Indoor Unit	White	RAS-	B10G3KVSG-E
Outdoor Unit		RAS-	<a href="#">10J2AVSG-E1</a>
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
	Range Min. - Max.	kW	0.89 - 3.20
	Power Input	kW	0.54
Cooling EN14825	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	102
	Range Min. - Max.	kW	0.90 - 4.80
	Power Input	kW	0.70
Heating EN14825	Pdesign	kW	2.5
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	686

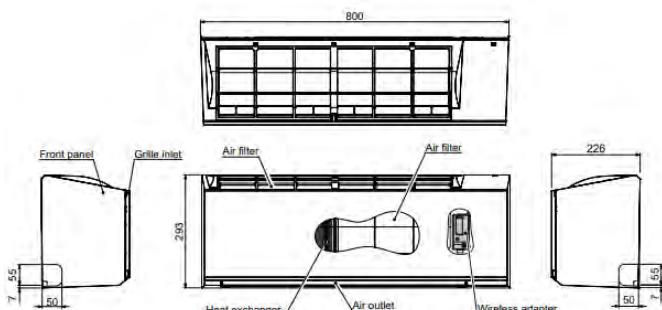
#### Indoor Data

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](#)

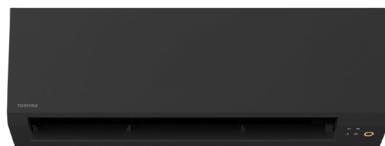
#### Related Items:

- [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

CODE			35
<b>Performance</b>			
Indoor Unit	Black	RAS-	B13G3KVSGB-E
Indoor Unit	White	RAS-	B13G3KVSG-E
Outdoor Unit		RAS-	<a href="#">13J2AVSG-E1</a>
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
	Range Min. - Max.	kW	1.00 - 4.10
	Power Input	kW	0.90
Cooling EN14825	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	142
	Range Min. - Max.	kW	1.00 - 5.30
	Power Input	kW	1.08
Heating EN14825	Pdesign	kW	3.2
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	878

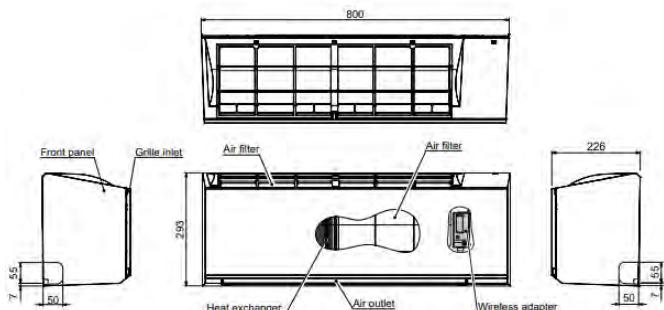
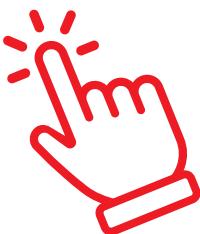
#### Indoor Data

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

46

CODE	MID TIER PRODUCT RANGE		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B16G3KVSG-E
Indoor Unit	White	RAS-	B16G3KVSG-E
Outdoor Unit		RAS-	<a href="#">16J2AVSG-E1</a>
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
	Range Min. - Max.	kW	1.20 - 5.30
	Power Input	kW	1.35
Cooling EN14825	Pdesign	kW	4.6
	SEER/Energy Efficiency Class		7.80/A++
	Seasonal Energy Consumption	kWh/a	206
	Range Min. - Max.	kW	1.10 - 6.50
	Power Input	kW	1.52
Heating EN14825	Pdesign	kW	4.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1217

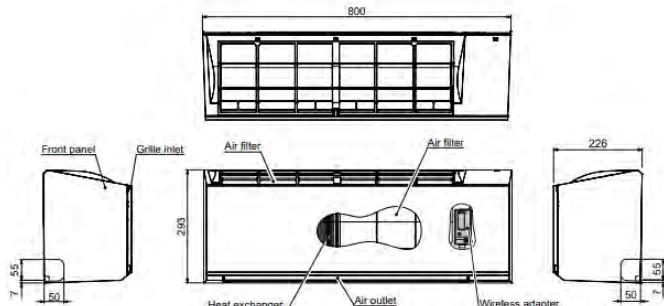
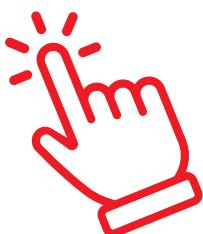
### Indoor Data

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

CODE	50		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B18G3KVSGB-E
Indoor Unit	White	RAS-	B18G3KVSG-E
Outdoor Unit		RAS-	<u><a href="#">18J2AVSG-E1</a></u>
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
	Range Min. - Max.	kW	1.20 - 6.00
	Power Input	kW	1.42
Cooling EN14825	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		7.30/A++
	Seasonal Energy Consumption	kWh/a	242
	Range Min. - Max.	kW	1.10 - 6.50
	Power Input	kW	1.59
Heating EN14825	Pdesign	kW	4.3
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1309

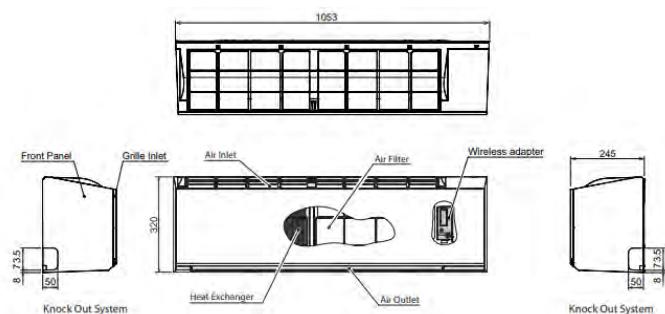
#### Indoor Data

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):



Hi - Res Image

#### MID TIER PRODUCT RANGE

CODE	61		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B22G3KVSG-B-E
Indoor Unit	White	RAS-	B22G3KVSG-E
Outdoor Unit		RAS-	<a href="#">22J2AVSG-E1</a>
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
	Range Min. - Max.	kW	1.39 - 6.70
	Power Input	kW	1.99
Cooling EN14825	Pdesign	kW	6.1
	SEER/Energy Efficiency Class		7.30/A++
	Seasonal Energy Consumption	kWh/a	292
	Range Min. - Max.	kW	1.15 - 7.50
	Power Input	kW	1.88
Heating EN14825	Pdesign	kW	4.7
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1430

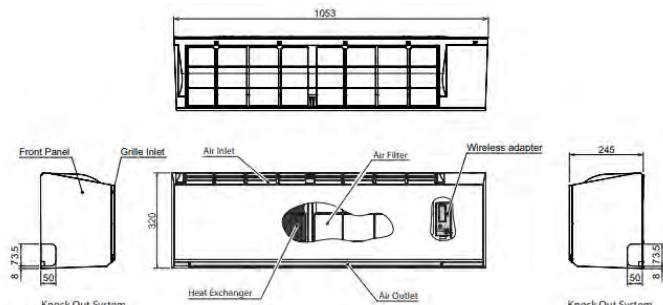
#### Indoor Data

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](#)

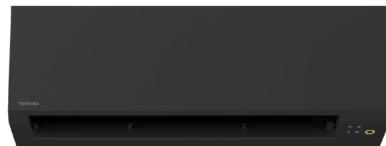
#### Related Items:

- [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):



ROI BLACK



ROI WHITE

Hi - Res Image

### MID TIER PRODUCT RANGE

CODE	70		
<b>Performance</b>			
Indoor Unit	Black	RAS-	B24G3KVSGB-E
Indoor Unit	White	RAS-	B24G3KVSG-E
Outdoor Unit		RAS-	<a href="#">24J2AVSG-E1</a>
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
	Range Min. - Max.	kW	1.70 - 7.70
	Power Input	kW	2.25
Cooling EN14825	Pdesign	kW	7.0
	SEER/Energy Efficiency Class		6.30/A++
	Seasonal Energy Consumption	kWh/a	389
	Range Min. - Max.	kW	1.70 - 8.80
	Power Input	kW	2.35
Heating EN14825	Pdesign	kW	6.3
	SCOP/Energy Efficiency Class		4.10/A+
	Seasonal Energy Consumption	kWh/a	2149

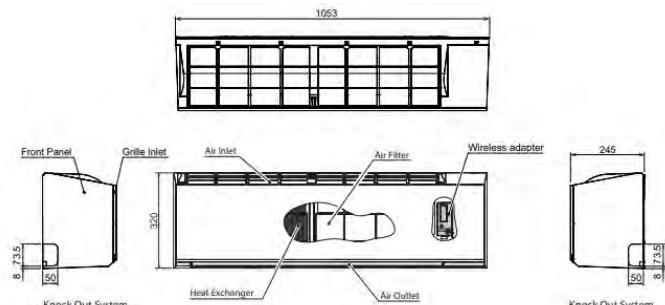
### Indoor Data

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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

MID TIER PRODUCT RANGE			
CODE		25	35
Performance			
Outdoor Unit	RAS-	10J2AVSG-E1	13J2AVSG-E1
Operating Range	Cooling	C°	-15~46
	Heating		-15~24
Air Flow	High	m3/h - l/s	1890 - 524
Sound	Pressure High Cooling/Heating/Silent	dB(A)	44 - 46
	Power High Cooling/Heating/Silent	dB(A)	57 - 59
Unit	Height x Width x Depth	mm	550x780x290
	Weight	kg	26
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"
	Min.-Max. Length	m	2-20
	Maximum Height Difference	m	±12
	Drain Port Connection	mm	16
Refrigerant Charge	Base Charge/Chargeless Length	m	0.55/15
	Additional Charge	g/m	20
Run Current	Maximum	Amps	5.35
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10

#### Related Items - 10J2AVSG-E1:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)

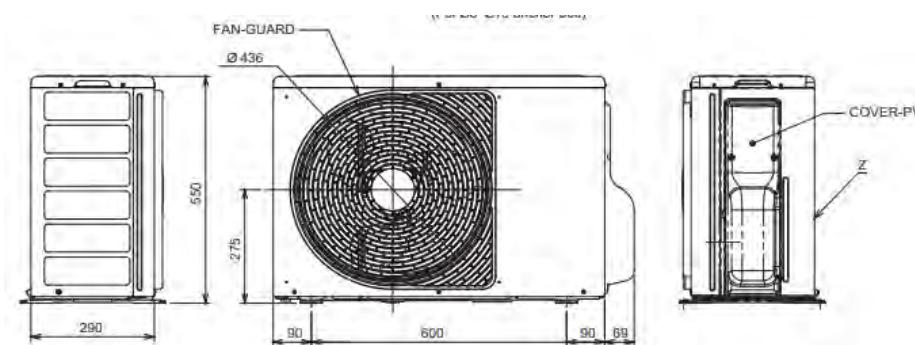


#### Related Items - 13J2AVSG-E1:

- [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				
CODE		46	50	
Performance				
Outdoor Unit				
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
	Flare Connections (gas-liquid)	inch	1/2" - 1/4"	1/2" - 1/4"
Pipe Connection	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](#)

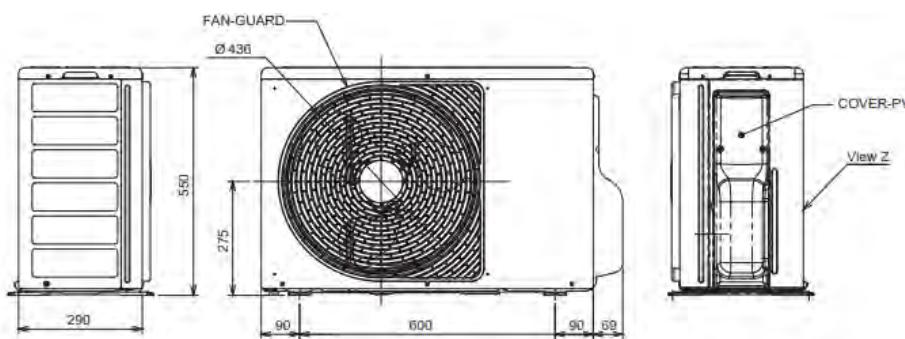


#### Related Items - 18J2AVSG-E1:

- [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.



Retail Price (interactive icons):



Hi - Res Image

MID TIER PRODUCT RANGE			
CODE		61	70
Performance			
Outdoor Unit			
Operating Range	Cooling	C°	-15~46
	Heating		-15~24
Air Flow	High	m3/h - l/s	2184 - 607
Sound	Pressure High Cooling/Heating/Silent	dB(A)	49 - 51
	Power High Cooling/Heating/Silent	dB(A)	62 - 64
Unit	Height x Width x Depth	mm	550x780x290
	Weight	kg	34
Pipe Connection	Flare Connections (gas-liquid)	inch	1/2" - 1/4"
	Min.-Max. Length	m	2-20
	Maximum Height Difference	m	±12
	Drain Port Connection	mm	16
Refrigerant Charge	Base Charge/Chargeless Length	m	1.1/15
	Additional Charge	g/m	20
Run Current	Maximum	Amps	11.16
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16

#### Related Items - 22J2AVSG-E1:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)

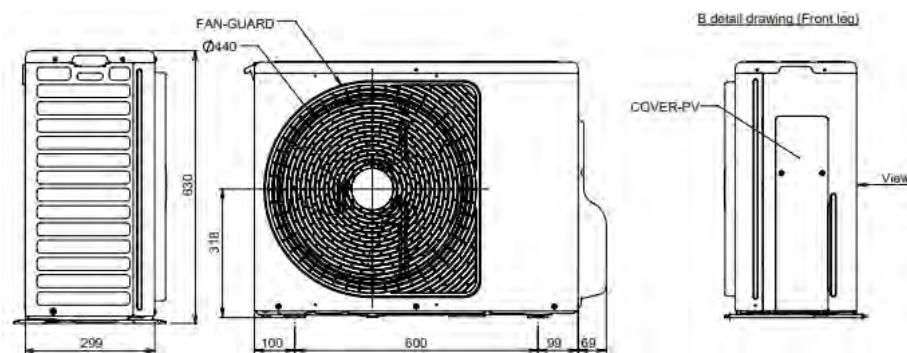


#### Related Items - 24J2AVSG-E1:

- [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.

Retail Price (interactive icons):



UK



ROI



Hi - Res Image



### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE			25
Performance				
Indoor Unit	RAS-			B10N4KVRG-E1
Outdoor Unit	RAS-			<a href="#">10J2AVSG-E1</a>
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
	Range Min. - Max.	kW		0.89 - 3.20
	Power Input	kW		0.54
Cooling EN14825	Pdesign	kW		2.5
	SEER/Energy Efficiency Class			8.50/A+++
	Seasonal Energy Consumption	kWh/a		102
	Range Min. - Max.	kW		0.90 - 4.70
	Power Input	kW		0.74
Heating EN14825	Pdesign	kW		2.5
	SCOP/Energy Efficiency Class			5.10/A+++
	Seasonal Energy Consumption	kWh/a		684

### Indoor Data

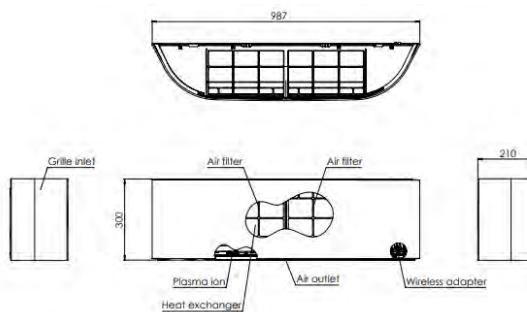
Air Flow	High - Low	l/s	169 - 83
	High - Low	m3/h	610 - 300
Sound	Pressure High - Low	dB(A)	41 - 19
	Power High - Low	dB(A)	55 - 34
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller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

Accessories			
<a href="#">RB-I4101-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
<a href="#">RB-I4102-E</a>	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
<a href="#">RB-I4103-E</a>	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
<a href="#">RB-I4104-E</a>	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
<a href="#">RB-I4105-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
<a href="#">RB-I4106-E</a>	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.

Retail Price (interactive icons):



UK



ROI



Hi - Res Image



### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE			35
Performance				
Indoor Unit	RAS-			B13N4KVRG-E
Outdoor Unit	RAS-			<a href="#">13J2AVSG-E1</a>
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
	Range Min. - Max.	kW		1.00 - 4.10
	Power Input	kW		0.80
Cooling EN14825	Pdesign	kW		3.5
	SEER/Energy Efficiency Class			8.60/A+++
	Seasonal Energy Consumption	kWh/a		142
	Range Min. - Max.	kW		1.00 - 5.30
	Power Input	kW		1.08
Heating EN14825	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

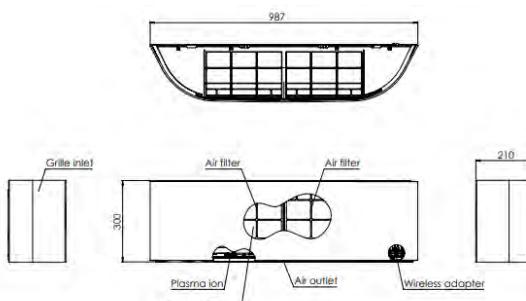
### Accessories

<a href="#">RB-I4101-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
<a href="#">RB-I4102-E</a>	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
<a href="#">RB-I4103-E</a>	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
<a href="#">RB-I4104-E</a>	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
<a href="#">RB-I4105-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
<a href="#">RB-I4106-E</a>	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](#)



COOL DESIGNS LTD

Raising the Standards in Air Conditioning Distribution

### 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.

Retail Price (interactive icons):



UK



ROI



Hi - Res Image



#### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE			45
<b>Performance</b>				
Indoor Unit	RAS-			B16N4KVRG-E
Outdoor Unit	RAS-			<a href="#">16J2AVSG-E1</a>
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
	Range Min. - Max.	kW		1.20 - 5.30
	Power Input	kW		1.35
Cooling EN14825	Pdesign	kW		4.6
	SEER/Energy Efficiency Class			7.80/A++
	Seasonal Energy Consumption	kWh/a		206
	Range Min. - Max.	kW		1.10 - 6.30
	Power Input	kW		1.52
Heating EN14825	Pdesign	kW		4.0
	SCOP/Energy Efficiency Class			4.60/A++
	Seasonal Energy Consumption	kWh/a		1214

#### Indoor Data

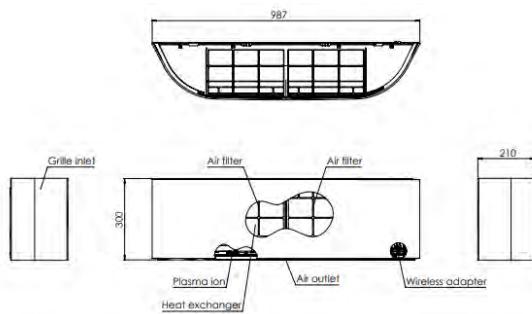
Air Flow	High - Low	l/s	262 - 88
	High - Low	m3/h	830 - 300
Sound	Pressure High - Low	dB(A)	45 - 29
	Power High - Low	dB(A)	59 - 34
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-UA01UE

Accessories			
<a href="#">RB-I4101-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
<a href="#">RB-I4102-E</a>	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
<a href="#">RB-I4103-E</a>	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
<a href="#">RB-I4104-E</a>	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
<a href="#">RB-I4105-E</a>	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
<a href="#">RB-I4106-E</a>	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

CODE		25	35	46
Performance				
Outdoor Unit	RAS-	10J2AVSG-E1	13J2AVSG-E1	16J2AVSG-E1
Operating Range	Cooling Heating	C° m3/h - l/s	-15 ~ 46 -15 ~ 24	-15 ~ 46 -15 ~ 24
Air Flow	High	m3/h - l/s	1890 - 524	1950 - 540
Sound	Pressure High Cooling/Heating/Silent Power High Cooling/Heating/Silent	dB(A)	44 - 46 59 - 59	46 - 48 59 - 61
Unit	Height x Width x Depth Weight	mm kg	550x780x290 26	550x780x290 30
Pipe Connection	Flare Connections (gas-liquid) Min.-Max. Length Maximum Height Difference Drain Port Connection	inch m m	3/8" - 1/4" 2-20 ±12	3/8" - 1/4" 2-20 ±12
Refrigerant Charge	Base Charge/Chargeless Length Additional Charge	m g/m	0.55/15 20	0.8/15 20
Run Current	Maximum	Amps	3.25	4.80
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](#)

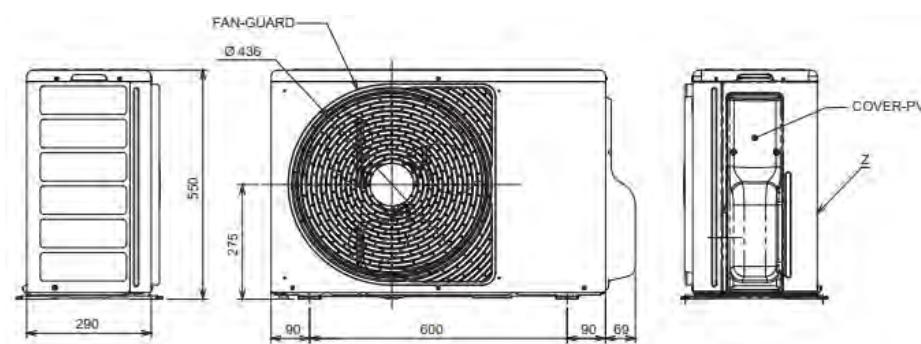


#### Related Items - 16J2AVSG-E1:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



\*All [Accessories / Controls](#)



# DAISEIKAI 9



### DAISEIKAI 9: RAS - 10PKVPG-E

- Power supply to indoor or outdoor unit.
- 3D Airflow with vertical & horizontal louvres.
- Less than 20dB(A) in silent mode operation.
- Toshiba's leading indoor air quality solution with double filtration system.
- Market Benchmark for High efficiency solutions with A+++ in Heating & Cooling.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE		
	25		
Performance			
Indoor Unit	RAS-		10PKVPG-E
Outdoor Unit	RAS-		10PAVPG-E
Nominal	Cooling Capacity	kW	2.5
	Heating Capacity	kW	3.2
	EER/COP	W/W	5.56/5.33
UK	Cooling Total/Sensible	kW	2.44/2.03
	Heating	kW	1.90
	Range Min. - Max.	kW	0.80 - 3.50
	Power Input	kW	0.45
Cooling EN14825	Pdesign	kW	2.5
	SEER/Energy Efficiency Class		10.60/A+++
	Seasonal Energy Consumption	kWh/a	83
	Range Min. - Max.	kW	0.70 - 5.80
	Power Input	kW	0.60
Heating EN14825	Pdesign	kW	3.0
	SCOP/Energy Efficiency Class		5.20/A+++
	Seasonal Energy Consumption	kWh/a	807

#### Indoor Data

Air Flow	High - Low	l/s	200 - 83
	High - Low	m3/h	720 - 300
Sound	Pressure High - Low	dB(A)	44 - 20
	Power High - Low	dB(A)	58 - 35
Unit	Height x Width x Depth	mm	293 x 851 x 270
	Weight	kg	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA01LE

#### Accessories

RB-N105S-G	Wireless adapter (Without cable)
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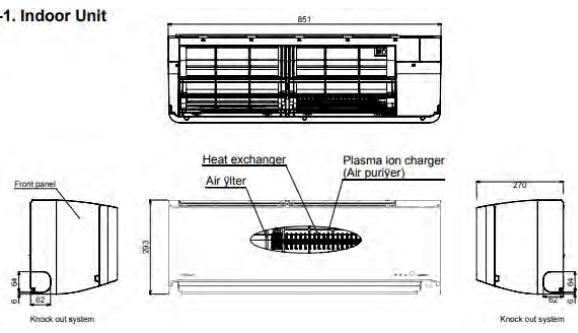
\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [CAD Files](#)
- [Airflow/ Fan Curve](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)
- [Owners Manual](#)



-1. Indoor Unit



### DAISEIKAI 9: RAS - 13PKVPG-E

- Power supply to indoor or outdoor unit.
- 3D Airflow with vertical & horizontal louvres.
- Less than 20dB(A) in silent mode operation.
- Toshiba's leading indoor air quality solution with double filtration system.
- Market Benchmark for High efficiency solutions with A+++ in Heating & Cooling.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE		
	35		
Performance			
Indoor Unit	RAS-		13PKVPG-E
Outdoor Unit	RAS-		<a href="#">13PAVPG-E</a>
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.0
	EER/COP	W/W	4.67/5.00
UK	Cooling Total/Sensible	kW	3.42/2.74
	Heating	kW	2.51
	Range Min. - Max.	kW	0.90 - 4.10
	Power Input	kW	0.75
Cooling EN14825	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		9.50/A+++
	Seasonal Energy Consumption	kWh/a	129
	Range Min. - Max.	kW	0.80 - 6.30
	Power Input	kW	.80
Heating EN14825	Pdesign	kW	3.6
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	988

#### Indoor Data

Air Flow	High - Low	l/s	200 - 83
	High - Low	m3/h	720 - 300
Sound	Pressure High - Low	dB(A)	45 - 20
	Power High - Low	dB(A)	60 - 35
Unit	Height x Width x Depth	mm	293 x 851 x 270
	Weight	kg	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA01LE

#### Accessories

<a href="#">RB-N105S-G</a>	Wireless adapter (Without cable)
----------------------------	----------------------------------

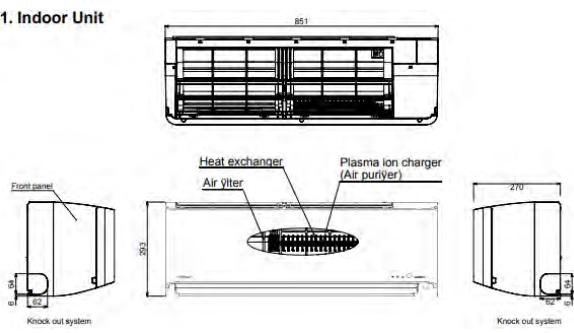
\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [CAD Files](#)
- [Airflow/ Fan Curve](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)
- [Owners Manual](#)



-1. Indoor Unit



### DAISEIKAI 9: RAS - 16PKVPG-E

- Power supply to indoor or outdoor unit.
- 3D Airflow with vertical & horizontal louvres.
- Less than 20dB(A) in silent mode operation.
- Toshiba's leading indoor air quality solution with double filtration system.
- Market Benchmark for High efficiency solutions with A+++ in Heating & Cooling.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

#### HIGH TIER PRODUCT RANGE

CODE	HIGH TIER PRODUCT RANGE		
	45		
Performance			
Indoor Unit	RAS-		16PKVPG-E
Outdoor Unit	RAS-		16PAVPG-E
Nominal	Cooling Capacity	kW	4.5
	Heating Capacity	kW	5.5
	EER/COP	W/W	4.17/4.01
UK	Cooling Total/Sensible	kW	4.40/3.56
	Heating	kW	3.43
	Range Min. - Max.	kW	0.90 - 5.10
	Power Input	kW	1.08
Cooling EN14825	Pdesign	kW	4.5
	SEER/Energy Efficiency Class		8.50/A+++
	Seasonal Energy Consumption	kWh/a	185
	Range Min. - Max.	kW	0.80 - 6.80
	Power Input	kW	1.37
Heating EN14825	Pdesign	kW	4.5
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1369

#### Indoor Data

Air Flow	High - Low	l/s	206 - 86
	High - Low	m3/h	740 - 310
Sound	Pressure High - Low	dB(A)	46 - 22
	Power High - Low	dB(A)	60 - 37
Unit	Height x Width x Depth	mm	293 x 851 x 270
	Weight	kg	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-TA01LE

#### Accessories

RB-N105S-G	Wireless adapter (Without cable)
------------	----------------------------------

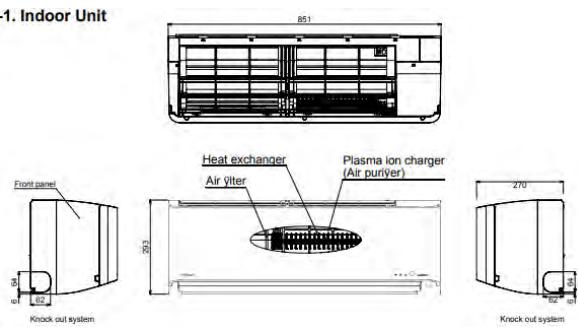
\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [CAD Files](#)
- [Airflow/ Fan Curve](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)
- [Owners Manual](#)



-1. Indoor Unit



**Cool Designs Ltd**

Raising the Standards in Air Conditioning Distribution

### DAISEIKAI 9: RAS - 10PAVPG-E - 16PAVPG-E

- Outdoor unit noise reduction at night.
- Power supply to indoor or outdoor unit
- Capacity booster to reach comfort set point faster.
- Energy Class A+++/A+++ cooling and heating modes.
- Wide ambient range: cooling -15°C to 46°C heating -15°C to 24°C.



Hi - Res Image



Retail Price (interactive icons):

UK



ROI



HIGH TIER PRODUCT RANGE			
CODE		25	35
Performance			
Outdoor Unit	RAS-	10PAVPG-E	13PAVPG-E
Operating Range	Cooling	C°	-15 ~ 46
	Heating		-15 ~ 24
Air Flow	High	m3/h - l/s	2160 - 600
Sound	Pressure High Cooling/Heating/Silent	dB(A)	46 / 47 / 42
	Power High Cooling/Heating/Silent	dB(A)	61 / 62 / 57
Unit	Height x Width x Depth	mm	630 x 800 x 300
	Weight	kg	38
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"
	Min.-Max. Length	m	2-25
	Maximum Height Difference	m	±10
	Drain Port Connection	mm	16
Refrigerant Charge	Base Charge/Chargeless Length	m	1.0/15
	Additional Charge	g/m	20
Run Current	Maximum	Amps	3.40
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10
			220-240/1/50-16

#### Related Items - 10PAVPG-E:

- [BIM Files](#)
- [CAD Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



#### Related Items - 13PAVPG-E:

- [BIM Files](#)
- [CAD Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)

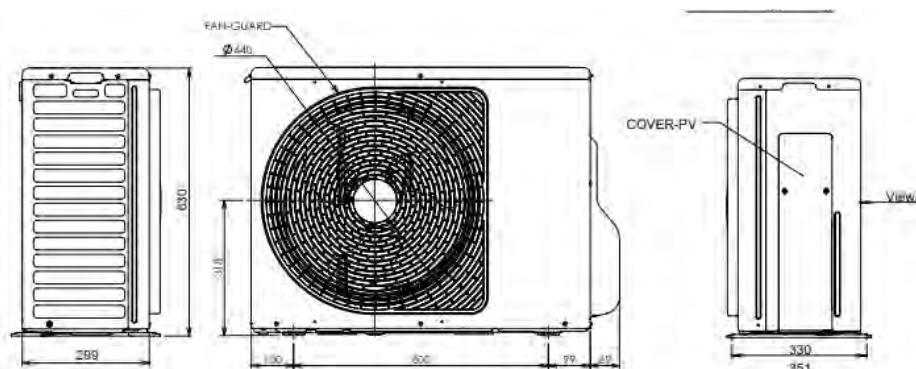


#### Related Items - 16PAVPG-E:

- [BIM Files](#)
- [CAD Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



\*All [Accessories / Controls](#)



**TOSHIBA**

PRODUCT SPECIFICATION

# **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

£

UK

£

ROI

€

ROI

€

WOOD

WHITE



Hi - Res Image

#### ELITE TIER PRODUCT RANGE

25

CODE	Performance			
Indoor Unit	White	RAS-		B10S4KPG-E
Indoor Unit	Wood	RAS-		B10S4KVDG-E
Outdoor Unit		RAS-		<a href="#">10S4AVPG-E</a>
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
	Range Min. - Max.	kW		0.60 - 3.50
	Power Input	kW		0.47
Cooling EN14825	Pdesign	kW		2.5
	SEER/Energy Efficiency Class			10.70/A+++
	Seasonal Energy Consumption	kWh/a		82
	Range Min. - Max.	kW		0.65 - 5.80
	Power Input	kW		0.60
Heating EN14825	Pdesign	kW		3.0
	SCOP/Energy Efficiency Class			5.30/A+++
	Seasonal Energy Consumption	kWh/a		792
<b>Indoor Data</b>				
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

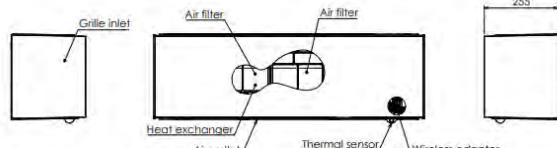
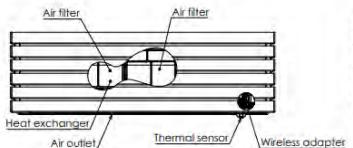
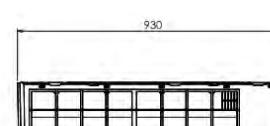
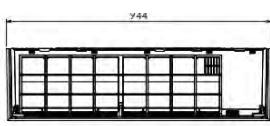
#### Related Items - WOOD:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)



#### Related Items - WHITE:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)



### DAISEIKAI 10: RAS - B13S4KPG-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      £  
UK      £

ROI      €  
ROI      €



Hi - Res Image

#### ELITE TIER PRODUCT RANGE

35

CODE	Performance		
Indoor Unit	White	RAS-	B13S4KPG-E
Indoor Unit	Wood	RAS-	B13S4KVDG-E
Outdoor Unit		RAS-	<u><a href="#">13S4AVPG-E</a></u>
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
	Range Min. - Max.	kW	0.90 - 4.20
	Power Input	kW	0.80
Cooling EN14825	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		9.70/A+++
	Seasonal Energy Consumption	kWh/a	126
	Range Min. - Max.	kW	0.70 - 6.30
	Power Input	kW	.80
Heating EN14825	Pdesign	kW	3.6
	SCOP/Energy Efficiency Class		5.20/A+++
	Seasonal Energy Consumption	kWh/a	969
<b>Indoor Data</b>			
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

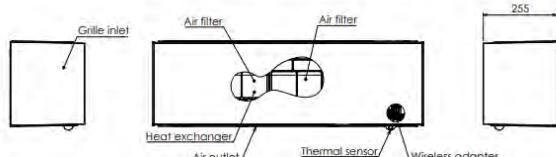
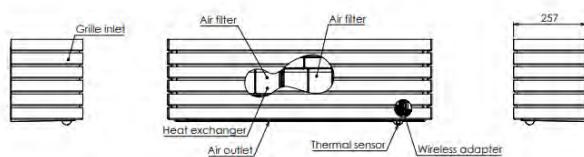
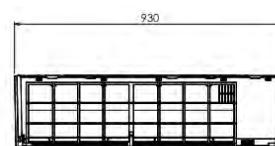
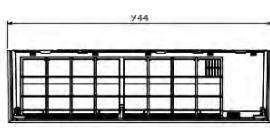
#### Related Items - WOOD:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)



#### Related Items - WHITE:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)



### DAISEIKAI 10: RAS - B18S4KPG-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):



Hi - Res Image

#### ELITE TIER PRODUCT RANGE

CODE			25
<b>Performance</b>			
Indoor Unit	White	RAS-	B18S4KPG-E
Indoor Unit	Wood	RAS-	B18S4KVDG-E
Outdoor Unit		RAS-	<b>18S4AVPG-E</b>
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
	Range Min. - Max.	kW	0.90 - 6.0
	Power Input	kW	1.40
Cooling EN14825	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	203
	Range Min. - Max.	kW	0.80 - 7.20
	Power Input	kW	1.45
Heating EN14825	Pdesign	kW	4.5
	SCOP/Energy Efficiency Class		4.80/A++
	Seasonal Energy Consumption	kWh/a	1312
<b>Indoor Data</b>			
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

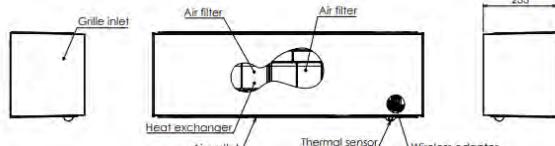
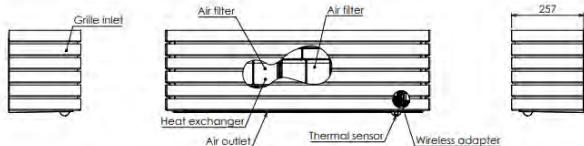
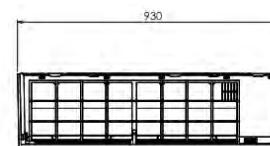
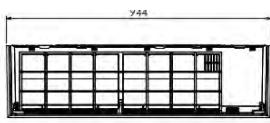
#### Related Items - WOOD:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)



#### Related Items - WHITE:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)



### DAISEIKAI 1O: 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.



Hi - Res Image

Retail Price (interactive icons):



UK



ROI



#### ELITE TIER PRODUCT RANGE

CODE		25	35	50
Performance				
Outdoor Unit	RAS-	10S4AVPG-E	13S4AVPG-E	18S4AVPG-E
Operating Range	Cooling	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating	-20 ~ 24	-20 ~ 24	-20 ~ 24
Air Flow	High	m3/h - l/s	2100 - 583	2160 - 600
Sound	Pressure High Cooling/Heating/Silent	dB(A)	44 / 45 / 41	45 / 46 / 42
	Power High Cooling/Heating/Silent	dB(A)	57 / 58 / 54	58 / 59 / 55
Unit	Height x Width x Depth	mm	630 x 800 x 300	630 x 800 x 300
	Weight	kg	38	38
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8" - 1/4"	3/8" - 1/4"
	Min.-Max. Length	m	2-25	2-25
	Maximum Height Difference	m	±15	±15
Refrigerant Charge	Drain Port Connection	mm	16	16
	Base Charge/Chargeless Length	m	1.0/15	1.0/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	3.40	4.01
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 - 10S4AVPG-E:

- [Dimensional Drawing](#)
- [Wiring Diagram](#)



#### Related Items - 13S4AVPG-E:

- [Dimensional Drawing](#)
- [Wiring Diagram](#)

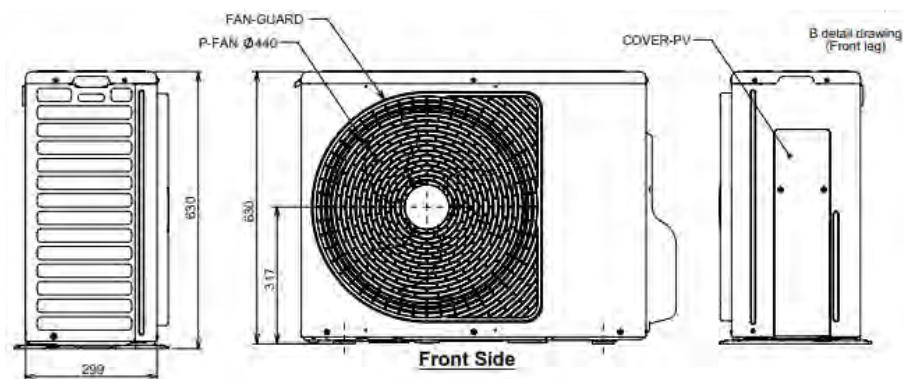


#### Related Items - 18S4AVPG-E:

- [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

CODE	25	
Performance		
Indoor Unit	RAS-	B10J2FVG-E
Outdoor Unit	RAS-	<a href="#">10J2AVSG-E1</a>
Nominal	Cooling Capacity Heating Capacity EER/COP	2.5 3.2 4.24/3.90
UK	Cooling Total/Sensible Heating	2.44/2.03 1.90
Cooling EN14825	Range Min. - Max. Power Input Pdesign SEER/Energy Efficiency Class Seasonal Energy Consumption	0.95 - 3.2 0.59 2.5 7.20/A++ 121
Heating EN14825	Range Min. - Max. Power Input Pdesign SCOP/Energy Efficiency Class Seasonal Energy Consumption	0.85 - 4.40 0.82 2.5 4.70/A++ 744

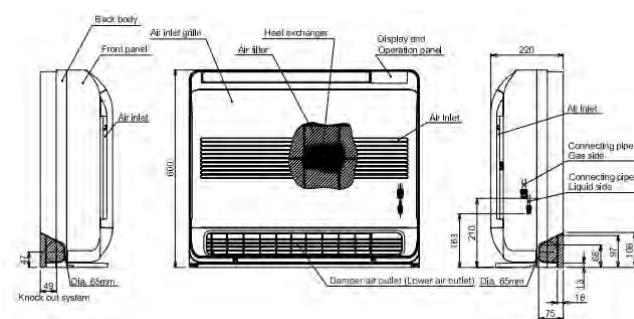
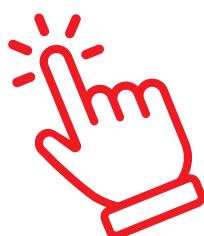
Indoor Data			
Air Flow	High - Low	l/s	136 - 71
	High - Low	m3/h	492 - 258
Sound	Pressure High - Low	dB(A)	39 - 23
	Power High - Low	dB(A)	54 - 38
Unit	Height x Width x Depth	mm	600 x 700 x 220
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID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

Accessories	
<a href="#">RB-1301-E</a>	Refrigerant Leak detection sensor
<a href="#">RB-N106S-G</a>	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](#)



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

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.



Retail Price (interactive icons):



11K



PO



## Hi - Res Image

CODE			35
Performance			
Indoor Unit	RAS-		B13J2FVG-E
Outdoor Unit	RAS-		<u>13J2AVSG-E1</u>
	Cooling Capacity	kW	3.5
Nominal	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
	Range Min. - Max.	kW	1.05 - 4.1
	Power Input	kW	0.87
Cooling EN14825	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		7.00/A++
	Seasonal Energy Consumption	kWh/a	174
	Range Min. - Max.	kW	1.0 - 5.0
	Power Input	kW	1.27
Heating EN14825	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	m <sup>3</sup> /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

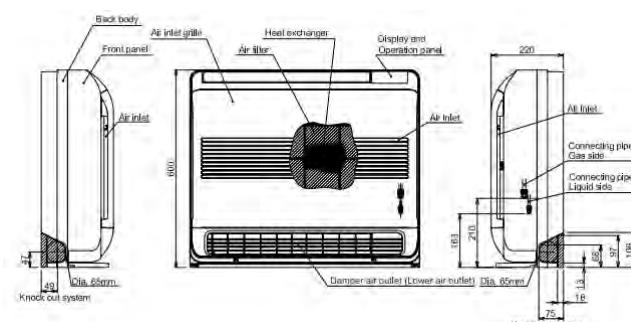
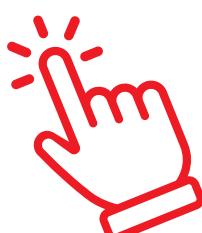
Accessories

<a href="#">RB-1301-E</a>	Refrigerant Leak detection sensor
<a href="#">RB-N106S-G</a>	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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE	50		
Performance			
Indoor Unit	RAS-		B18J2FVG-E
Outdoor Unit	RAS-		<a href="#">18J2AVSG-E1</a>
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
	Range Min. - Max.	kW	1.2 - 5.6
	Power Input	kW	1.68
Cooling EN14825	Pdesign	kW	5.0
	SEER/Energy Efficiency Class		6.80/A++
	Seasonal Energy Consumption	kWh/a	257
	Range Min. - Max.	kW	1.3 - 6.3
	Power Input	kW	2.05
Heating EN14825	Pdesign	kW	4.0
	SCOP/Energy Efficiency Class		4.60/A++
	Seasonal Energy Consumption	kWh/a	1217

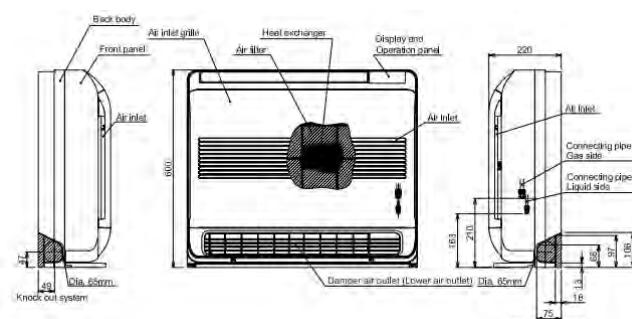
Indoor Data			
Air Flow	High - Low	l/s	183 - 101
	High - Low	m3/h	660 - 366
Sound	Pressure High - Low	dB(A)	47 - 31
	Power High - Low	dB(A)	61 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220
	Weight	kg	16
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2" - 1/4"
	Drain Pipe Connection OD/ID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



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

### 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

CODE		25	35	50
<b>Performance</b>				
Outdoor Unit	RAS-	10J2AVSG-E1	13J2AVSG-E1	18J2AVSG-E1
Operating Range	Cooling	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24
Air Flow	High	m3/h - l/s	1890 - 524	1950 - 540
Sound	Pressure High Cooling/Heating/Silent	dB(A)	45 / 47 / 38	47 / 49 / 40
	Power High Cooling/Heating/Silent	dB(A)	58 / 60 / 51	60 / 62 / 53
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	0.80/15
	Additional Charge	g/m	20	20
Run Current	Maximum	Amps	3.97	5.22
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	220-240/1/50-10

#### 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](#)

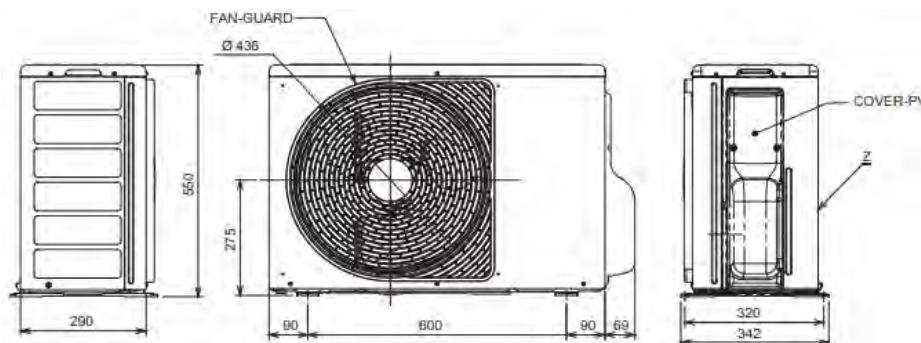


#### Related Items - 18J2AVSG-E1:

- [BIM Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



\*All [Accessories / Controls](#)



# TOSHIBA

## PRODUCT SPECIFICATION



### 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



33

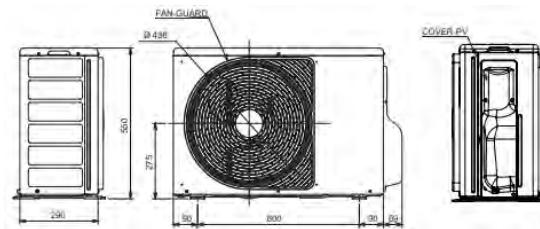
CODE	Performance	
<b>Outdoor Unit</b>		
Indoor Units Connected	Min.-Max.	2M10G3AVG-E
Capacity Code	2 x Indoor Connection 3+ Indoor Connection	2-2 10-20
Nominal	Cooling Capacity Heating Capacity EER/COP	kW kW W/W 3.3 4.0 4.93 / 4.71
Cooling EN14825	Range Min. - Max. Power Input Pdesign SEER/Energy Efficiency Class	kW kW kW 1.20 - 4.1 0.67 3.3 8.6 / A+++
Heating EN14825	Seasonal Energy Consumption Range Min. - Max. Power Input Pdesign SCOP/Energy Efficiency Class Seasonal Energy Consumption	kWh/a kW kW kW 4.7 / A++ 805
<b>Outdoor Data</b>		
Operating Range	Cooling Heating	°C -10/46 -20/24
Air Flow	High	m3/h - l/s 2100-583
Sound	Pressure High/Low Power High	dB(A) 51/46 64
Unit	Height x Width x Depth Weight	mm kg 550 x 780 x 290 31
Pipe Connection	Flare Connections (gas - liquid) Min.-Max. Length	inch m 3/8" x 2 - 1/4" x 2 2-20
	Maximum Pipe Length Per Unit Maximum Height Difference	m m 15 10
	Drain Port Connection	mm 16
Refrigerant R410A	Base Charge/Chargeless Length Additional Charge	m g/m 0.8 / 20 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 (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*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



40

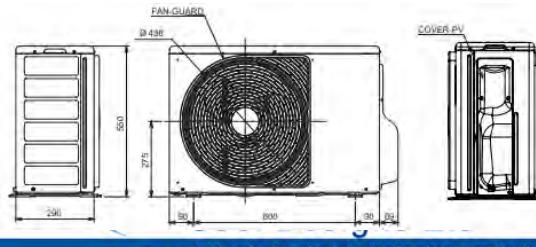
CODE	Performance		
<b>Outdoor Unit</b>			
	<b>RAS-</b>		<b>2M14G3AVG-E</b>
<b>Indoor Units Connected</b>	<b>Min.-Max.</b>		<b>2-2</b>
Capacity Code	2 x Indoor Connection	Min.-Max.	10-26
	3+ Indoor Connection	Min.-Max.	-
Nominal	Cooling Capacity	kW	4.0
	Heating Capacity	kW	4.4
	EER/COP	W/W	4.71 / 4.89
	Range Min. - Max.	kW	1.5 - 4.9
Cooling EN14825	Power Input	kW	0.85
	Pdesign	kW	4.0
	SEER/Energy Efficiency Class		8.7 / A+++
	Seasonal Energy Consumption	kWh/a	169
	Range Min. - Max.	kW	1.00 - 5.20
Heating EN14825	Power Input	kW	0.90
	Pdesign	kW	3.1
	SCOP/Energy Efficiency Class		4.8 / A++
	Seasonal Energy Consumption	kWh/a	904
<b>Outdoor Data</b>			
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 R410A	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 (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*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



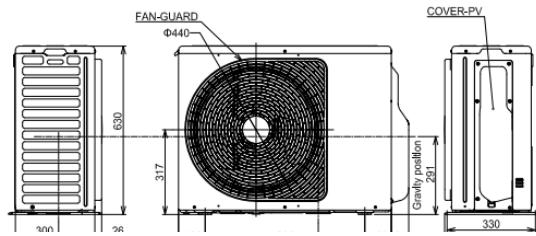
CODE	52			
<b>Performance</b>				
<b>Outdoor Unit</b>				
Indoor Units Connected	RAS-	2M18G3AVG-E		
Capacity Code	Min.-Max.	2-2		
2 x Indoor Connection	Min.-Max.	10-32		
3+ Indoor Connection	Min.-Max.	-		
Nominal				
Cooling Capacity	kW	5.2		
Heating Capacity	kW	5.6		
EER/COP	W/W	4.33 / 4.91		
Cooling EN14825	Range Min. - Max.	1.6 - 6.5		
Pdesign	kW	1.20		
SEER/Energy Efficiency Class		5.2		
Seasonal Energy Consumption	kWh/a	8.7 / A+++		
Heating EN14825		243		
Range Min. - Max.	kW	243		
Power Input	kW	1.30 - 8.20		
Pdesign	kW	1.14		
SCOP/Energy Efficiency Class		3.2		
Seasonal Energy Consumption	kWh/a	4.8 / A++		
		914		
<b>Outdoor Data</b>				
Operating Range	Cooling	°C		
	Heating		-10/46	
Air Flow	High	m3/h - l/s	-20/24	
Sound	Pressure High/Low	dB(A)	2600-722	
	Power High	dB(A)	50/44	
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	
Refrigerant R410A	Maximum Pipe Length Per Unit	m	20	
	Maximum Height Difference	m	10	
	Drain Port Connection	mm	16	
Run Current	Base Charge/Chargeless Length	m	1.2 / 30	
	Additional Charge	g/m	0	
Power Cable	Maximum	Amps	8.20	
Power Supply	Outdoor to Indoor		3 core + earth	
	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	

RAS Indoor Model (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*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



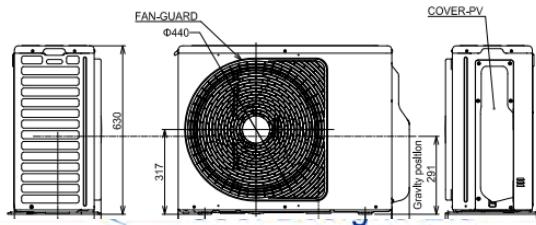
CODE	3M18G3AVG-E		52		
<b>Performance</b>					
Outdoor Unit					
Indoor Units Connected	RAS-	Min.-Max.	3M18G3AVG-E		
Capacity Code	2 x Indoor Connection	Min.-Max.	2-3		
	3+ Indoor Connection	Min.-Max.	10-32		
Nominal	Cooling Capacity	kW	10-36		
	Heating Capacity	kW	5.2		
	EER/COP	W/W	6.8		
	Range Min. - Max.	kW	5.2 / 4.69		
Cooling EN14825	Power Input	kW	2.0 - 7.5		
	Pdesign	kW	1.00		
	SEER/Energy Efficiency Class		5.2		
	Seasonal Energy Consumption	kWh/a	8.6 / A+++		
Heating EN14825	Range Min. - Max.	kWh/a	262		
	Power Input	kW	1.90 - 8.30		
	Pdesign	kW	1.45		
	SCOP/Energy Efficiency Class		3.5		
	Seasonal Energy Consumption	kWh/a	4.8 / A++		
			1021		
<b>Outdoor Data</b>					
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 R410A	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 (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*All [Accessories / Controls](#)

Related Items:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Combinations](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



### 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



75

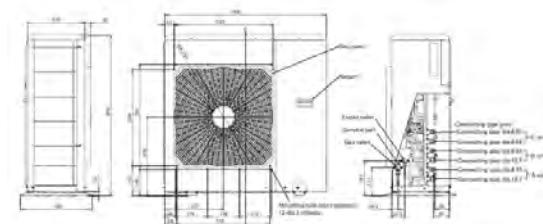
CODE	Performance		
<b>Outdoor Unit</b>			
		<b>RAS-</b>	<b>3M26G3AVG-E</b>
<b>Indoor Units Connected</b>		<b>Min.-Max.</b>	<b>2-3</b>
Capacity Code	2 x Indoor Connection	Min.-Max.	10-42
	3+ Indoor Connection	Min.-Max.	10-54
Nominal	Cooling Capacity	kW	7.5
	Heating Capacity	kW	9.0
	EER/COP	W/W	4 / 4.35
	Range Min. - Max.	kW	2.0 - 9.0
	Power Input	kW	1.75
Cooling EN14825	Pdesign	kW	7.5
	SEER/Energy Efficiency Class		8.5 / A+++
	Seasonal Energy Consumption	kWh/a	340
	Range Min. - Max.	kW	2.0 - 11.5
	Power Input	kW	2.00
Heating EN14825	Pdesign	kW	5.2
	SCOP/Energy Efficiency Class		4.6 / A++
	Seasonal Energy Consumption	kWh/a	1583
<b>Outdoor Data</b>			
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" x 2 - 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 R410A	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 (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*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



80

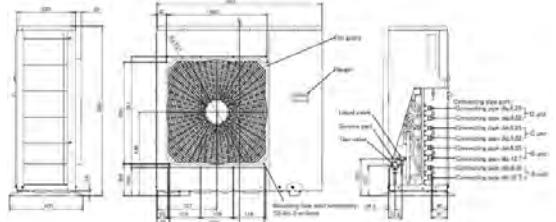
CODE	Performance		
<b>Outdoor Unit</b>			
		<b>RAS-</b>	<b>4M27G3AVG-E</b>
<b>Indoor Units Connected</b>		<b>Min.-Max.</b>	<b>2-4</b>
Capacity Code	2 x Indoor Connection	Min.-Max.	10-42
	3+ Indoor Connection	Min.-Max.	10-54
Nominal	Cooling Capacity	kW	8.0
	Heating Capacity	kW	9.0
	EER/COP	W/W	4.21 / 4.74
	Range Min. - Max.	kW	2.0 - 10.0
	Power Input	kW	1.90
Cooling EN14825	Pdesign	kW	8.0
	SEER/Energy Efficiency Class		8.3 / A++
	Seasonal Energy Consumption	kWh/a	406
	Range Min. - Max.	kW	2.0 - 12.0
	Power Input	kW	1.90
Heating EN14825	Pdesign	kW	5.2
	SCOP/Energy Efficiency Class		4.5 / A+
	Seasonal Energy Consumption	kWh/a	1617
<b>Outdoor Data</b>			
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" x 2 - 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 R410A	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 (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*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



100

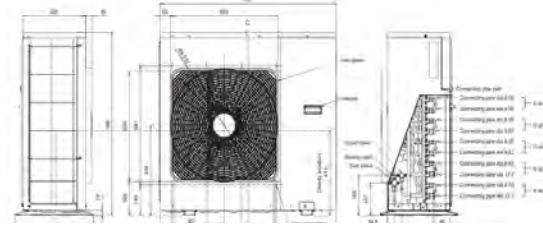
CODE	5M34G3AVG-E			
<b>Performance</b>				
<b>Outdoor Unit</b>				
Indoor Units Connected	Min.-Max.	5M34G3AVG-E		
Capacity Code	2 x Indoor Connection 3+ Indoor Connection	2-5 10-48 10-68		
Nominal	Cooling Capacity Heating Capacity EER/COP	kW kW W/W 10.0 12.0 3.85 / 4.24		
Cooling EN14825	Range Min. - Max. Power Input Pdesign	kW kW kW 2.5 - 11.5 2.60 10.0		
Heating EN14825	SEER/Energy Efficiency Class Seasonal Energy Consumption Range Min. - Max. Power Input Pdesign SCOP/Energy Efficiency Class Seasonal Energy Consumption	kWh/a kWh/a kW kW kW 7.2 / A++ 573 2.2 - 14.2 2.80 6.8 4.3 / A+ 2213		
<b>Outdoor Data</b>				
Operating Range	Cooling Heating	°C -10/46 -20/24		
Air Flow	High	m3/h - l/s 4400-1222		
Sound	Pressure High/Low Power High	dB(A) dB(A) 56/47 69		
Unit	Height x Width x Depth Weight	mm kg 890 x 900 x 320 78		
Pipe Connection	Flare Connections (gas - liquid) Min.-Max. Length	inch m 3/8" x 3 + 1/2" x 2 - 1/4" x 5 3-80		
Refrigerant R410A	Maximum Pipe Length Per Unit Maximum Height Difference Drain Port Connection	m m m 25 15 16		
Run Current	Base Charge/Chargeless Length Additional Charge	m g/m 2.39 / 40 20		
Power Cable	Maximum	Amps 12.99		
Power Supply	Outdoor to Indoor Suggested Fuse Size	3 core + earth V/ph/Hz-A 220-240/1/50-20		

RAS Indoor Model (B-Code)	Cooling	Heating	Seiya	Shorai Edge (B&W)	Haori	Daiseikai (9&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	✓	✓	✗	✗	✗	✗	✓

\*All Accessories / Controls

Related Items:

- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Combinations](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



# Multi Compact Cassette



### COMPACT CASSETTE: RAS - M10U2MUVG-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.



Retail Price (interactive icons):



UK

ROI

Hi - Res Image

CODE		27
<b>Performance</b>		
Indoor Unit	RAS-	M10U2MUVG-E
Capacity Code		10
Nominal	Cooling Capacity	kW 2.7
	Heating Capacity	kW 4.0
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

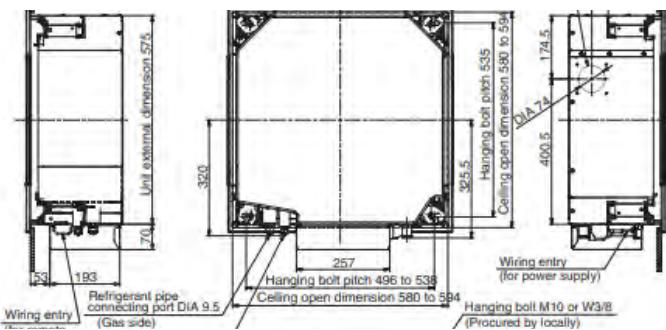
Indoor Data		
Air Flow	High - Low	l/s 164 - 119
	High - Low	m3/h 590 - 430
Sound	Pressure High - Low	dB(A) 37 - 30
	Power High - Low	dB(A) 52 - 45
Unit	Height x Width x Depth	mm 256 x 575 x 575
	Weight	kg 15
Panel RBC-UM21PG(W)-E	Height x Width x Depth	mm 12 x 620 x 620
	Weight	kg 3
Pipe Connection	Flare Connections (gas - liquid)	inch 3/8 - 1/4
	Drain Pipe Connection OD/ID	mm 32/25

Accessories		
<a href="#">RBC-AX32UM(W)-E</a>	Wireless remote controller Kit	
<a href="#">RB-RWS21-E</a>	Wired Remote Controller	
<a href="#">TCB-SIR41UM-E</a>	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 - M13U2MUVG-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.

Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE			37
<b>Performance</b>			
Indoor Unit	RAS-		M13U2MUVG-E
Capacity Code			13
Nominal	Cooling Capacity	kW	3.7
	Heating Capacity	kW	5.0
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

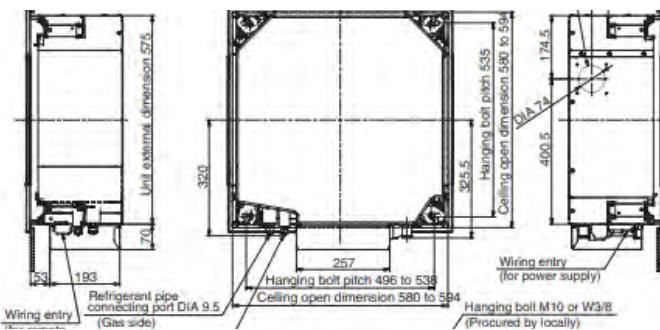
Indoor Data			
Air Flow	High - Low	l/s	172 - 119
	High - Low	m3/h	620 - 430
Sound	Pressure High - Low	dB(A)	38 - 30
	Power High - Low	dB(A)	53 - 45
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	15
Panel RBC-UM21PG(W)-E	Height x Width x Depth	mm	12 x 620 x 620
	Weight	kg	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25

Accessories	
<a href="#">RBC-AX32UM(W)-E</a>	Wireless remote controller Kit
<a href="#">RB-RWS21-E</a>	Wired Remote Controller
<a href="#">TCB-SIR41UM-E</a>	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 - M16U2MUVG-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.



Retail Price (interactive icons):



UK

ROI

Hi - Res Image

CODE		45
<b>Performance</b>		
Indoor Unit	RAS-	M16U2MUVG-E
Capacity Code		16
Nominal	Cooling Capacity	kW 4.5
	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

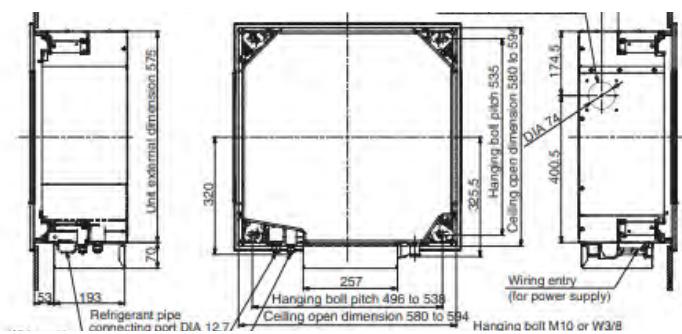
Indoor Data			
Air Flow	High - Low	l/s	189 - 125
	High - Low	m3/h	680 - 450
Sound	Pressure High - Low	dB(A)	40 - 31
	Power High - Low	dB(A)	55 - 46
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	15
Panel RBC-UM21PG(W)-E	Height x Width x Depth	mm	12 x 620 x 620
	Weight	kg	3
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25

Accessories	
<a href="#">RBC-AX32UM(W)-E</a>	Wireless remote controller Kit
<a href="#">RB-RWS21-E</a>	Wired Remote Controller
<a href="#">TCB-SIR41UM-E</a>	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](#)



**TOSHIBA**

PRODUCT SPECIFICATION

# 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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE	20		
<b>Performance</b>			
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

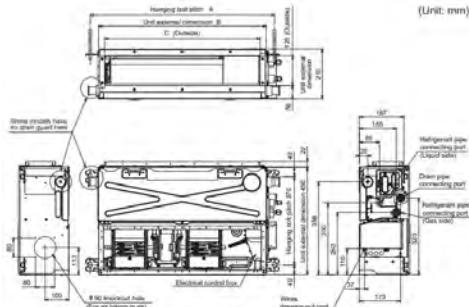
Indoor Data			
Air Flow	High - Low	l/s	158 - 106
	High - Low	m³/h	570 - 380
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27
	High - Low (under inlet)	dB(A)	44 - 30
Sound Power	High - Low	dB(A)	50 - 42
	High - Low (under inlet)	dB(A)	59 - 45
Unit	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](#)

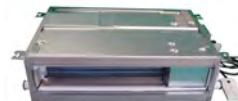
Related Items:

- [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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE	27		
Performance			
Indoor Unit			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

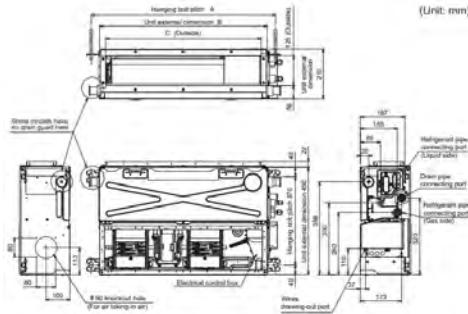
Indoor Data			
Air Flow	High - Low	l/s	158 - 106
	High - Low	m³/h	570 - 380
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27
	High - Low (under inlet)	dB(A)	44 - 30
Sound Power	High - Low	dB(A)	50 - 42
	High - Low (under inlet)	dB(A)	59 - 45
Unit	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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE		37	
<b>Performance</b>			
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
External Static Pressure	High - Low	m³/h	610 - 385
	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

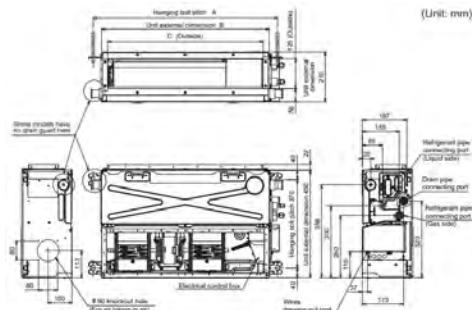
[RB-RWS21-E](#)

Wired Remote Controller

\*All [Accessories / Controls](#)

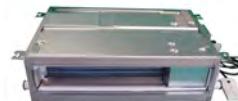
#### Related Items:

- [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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE	45		
Performance			
Indoor Unit			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

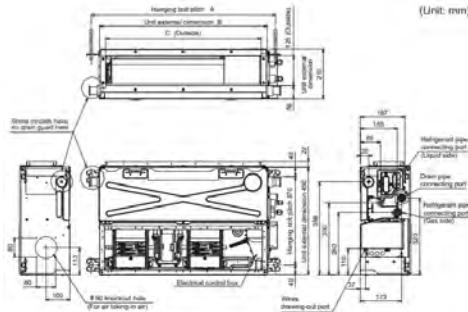
Indoor Data			
Air Flow	High - Low	l/s	217 - 117
	High - Low	m³/h	780 - 420
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 25
	High - Low (under inlet)	dB(A)	44 - 27
Sound Power	High - Low	dB(A)	50 - 40
	High - Low (under inlet)	dB(A)	59 - 42
Unit	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

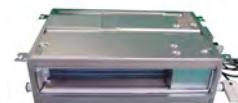
Related Items:

- [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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE		60	
<b>Performance</b>			
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

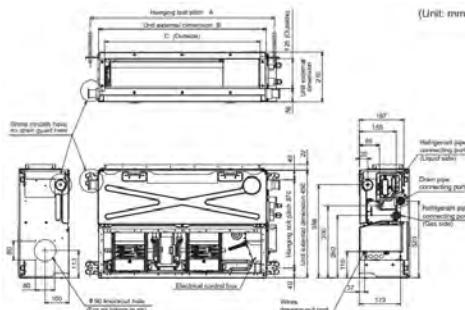
Indoor Data			
Air Flow	High - Low	l/s	278 - 206
	High - Low	m³/h	1000 - 740
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	38 - 32
	High - Low (under inlet)	dB(A)	45 - 37
Sound Power	High - Low	dB(A)	53 - 47
	High - Low (under inlet)	dB(A)	60 - 52
Unit	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	
<a href="#">RB-RWS21-E</a>	Wired Remote Controller

\*All [Accessories / Controls](#)

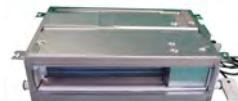
Related Items:

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- [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.



Retail Price (interactive icons):



UK



ROI



Hi - Res Image

CODE	71		
<b>Performance</b>			
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

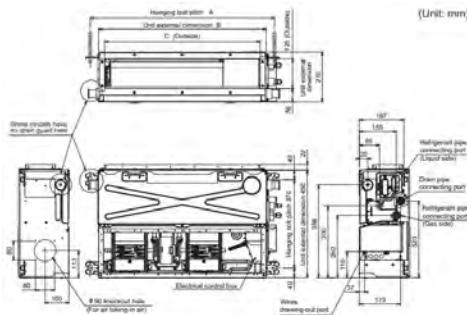
Indoor Data			
Air Flow	High - Low	l/s	294 - 211
	High - Low	m³/h	1060 - 760
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	39 - 33
	High - Low (under inlet)	dB(A)	46 - 38
Sound Power	High - Low	dB(A)	54 - 48
	High - Low (under inlet)	dB(A)	61 - 53
Unit	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

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

	Image	Model Reference	Application	Description	Related Items
Wired		RB-RWS21-E	Remote Controller	Hard wired remote controller RAS Ducted	<a href="#">Installation Manual</a>

	Image	Model Reference	Application	Description	Related Items
Wi-Fi Interface		RB-N105S-G	Wi-Fi Connection	Wi-Fi adapter	<a href="#">Installation Manual</a>
		RB-N106S-G		Wi-Fi adapter and cable	<a href="#">Installation Manual</a>

	Image	Model Reference	Application	Description	Related Items
Interface		RBC-IT3-PE	Timer Interface	240v Timer interface for Daiseikai units	<a href="#">Contact Toshiba Technical</a>

	Image	Model Reference	Application	Description	Related Items
Leak Detection		RB-1301-E	Refrigerant Sensor	R32 Refrigerant Leak detection sensor	<a href="#">Installation Manual</a>

### MISCELLANEOUS

Miscellaneous	Image	Model Reference	Application	Description
		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)

Fabric Covers	Image	Model Reference	Application	Description
HAORI		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

**TOSHIBA**

**PRODUCT SPECIFICATION**

# 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



CODE				40
<b>Performance</b>				
Outdoor Unit				
Hydro Indoor Unit	Air T°	Water T°	HWT-	401HW-E
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
Under Floor Heating	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	kW	4.80
	Max Heating Capacity	+7°C	kW	6.97
	Max Heating Capacity	-7°C	kW	4.48
Radiators Heating & DHW	Max Heating Capacity	+7°C	kW	6.51
	Max Heating Capacity	-7°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	kW	0.77
	Rated Water Flow	35°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
	Flare Connections (Gas - Liquid)		inch	1/2 - 1/4
Pipe Connection	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
	Power Input Heating		kW	0.77
	Running Current Heating		Amps	4.08
	Maximum Running Current		Amps	14.6
Electrical	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

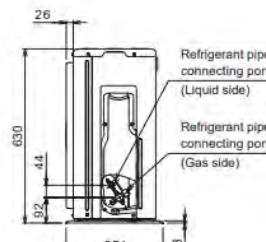
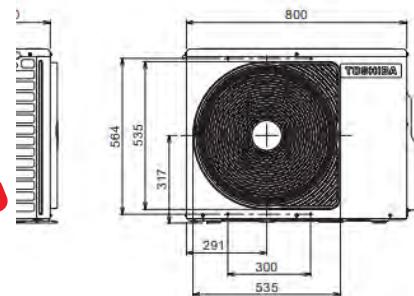
### Accessories

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



CODE				60
<b>Performance</b>				
Outdoor Unit			HWT-	601HW-E
Hydro Indoor Unit	Air T°	Water T°	HWT-	601XWH**W-E
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
Under Floor Heating	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	kW	6.06
	Max Heating Capacity	+7°C	kW	6.97
	Max Heating Capacity	-7°C	kW	5.80
Radiators Heating & DHW	Max Heating Capacity	+7°C	kW	7.53
	Max Heating Capacity	-7°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	kW	1.25
	Rated Water Flow	35°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
	Flare Connections (Gas - Liquid)		inch	1/2 - 1/4
Pipe Connection	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
	Power Input Heating		kW	1.25
	Running Current Heating		Amps	5.78
	Maximum Running Current		Amps	14.6
Electrical	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

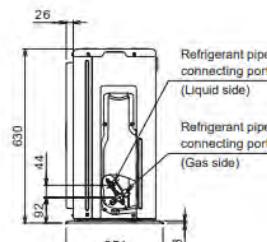
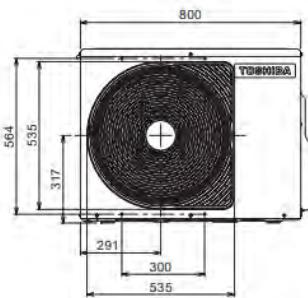
#### Accessories

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

\*All [Accessories / Controls](#)

Related Items:

- [BIM Files](#)
- [CAD Files](#)
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- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Wiring Specifications](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



COOL DESIGNS LTD

Raising the Standards in Air Conditioning Distribution

### 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



CODE				80	80
<b>Performance</b>					
Outdoor Unit			HWT-	<b>801HW-E</b>	<b>801HRW-E</b>
Hydro Indoor Unit	Air T°	Water T°	HWT-	<b>1101XWH**W-E</b>	<b>1101XWH**W-E</b>
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
Under Floor Heating	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	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	1.54	1.54
	Rated Water Flow	35°C	7°C	l/m	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	
	Flare Connections (Gas - Liquid)	inch	5/8 - 1/4	5/8 - 1/4	
Pipe Connection	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	

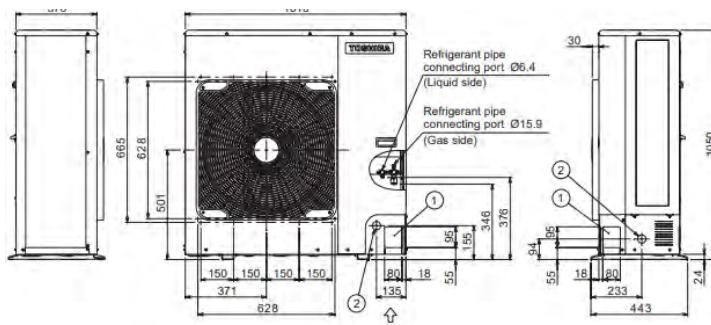
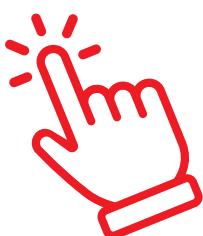
#### Accessories

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

\*All [Accessories / Controls](#)

#### Related Items:

- [BIM Files](#)
- [CAD Files](#)
- [Full Specification](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Wiring Specifications](#)
- [Noise Curve Data](#)
- [Installation Manual](#)



### 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



CODE				110	110
Performance					
Outdoor Unit					
Hydro Indoor Unit	Air T°	Water T°	HWT-	1101HW-E	1101HRW-E
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
Under Floor Heating	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	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++	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
	Rated Water Flow	35°C	7°C	l/m	32.1
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	51/47
	Sound Power Outdoor (Rated-Silent)			dB(A)	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
	Flare Connections (Gas - Liquid)		inch	5/8 - 1/4	5/8 - 1/4
Pipe Connection	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

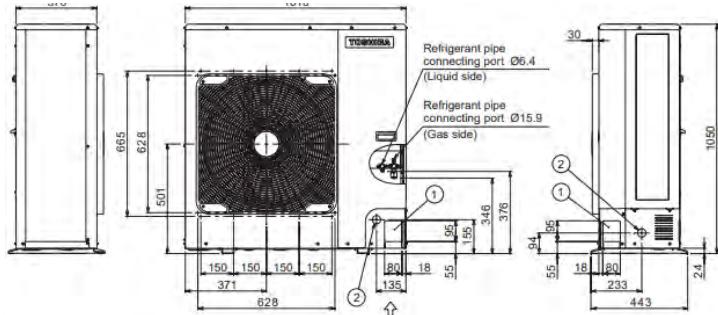
#### Accessories

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

\*All [Accessories / Controls](#)

#### Related Items:

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- [CAD Files](#)
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- [Noise Curve Data](#)
- [Installation Manual](#)



COOL DESIGNS LTD

Raising the Standards in Air Conditioning Distribution

### 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.



Hi - Res Image

Retail Price (interactive icons):



UK



ROI



CODE				140	140
Performance					
Outdoor Unit					
Hydro Indoor Unit	Air T°	Water T°	HWT-	1401HW-E	1401HW-E
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
Under Floor Heating	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
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
	Rated Water Flow	35°C	7°C	l/m	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
	Power Input Heating		kW	3	3
	Running Current Heating		Amps	14.20	14.20
	Maximum Running Current		Amps	28.8	28.8
Electrical	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

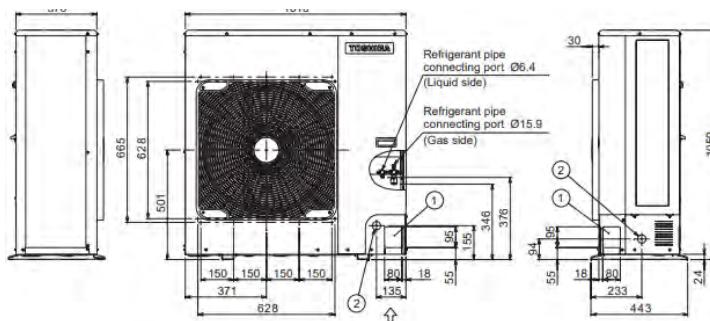
#### Accessories

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



CODE				80	80
Performance					
Outdoor Unit					
Hydro Indoor Unit	Air T°	Water T°	HWT-	801H8W-E	801H8RW-E
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
Under Floor Heating	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	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	1.55	1.55
	Rated Water Flow	35°C	7°C	l/m	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	I/s - m <sup>3</sup> /h			
	Flare Connections (Gas - Liquid)	inch	5/8 - 1/4	5/8 - 1/4	
Pipe Connection	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	

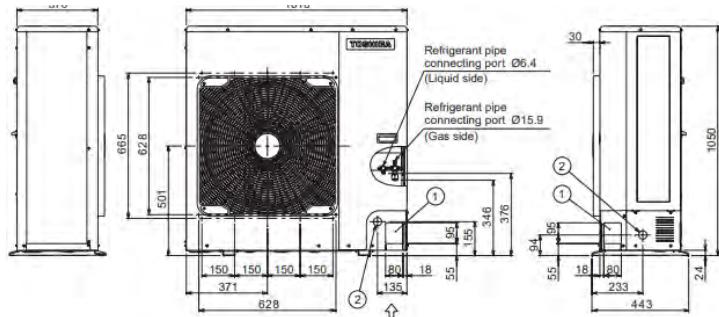
#### Accessories

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](#)



COOL DESIGNS LTD

Raising the Standards in Air Conditioning Distribution

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):



ROI



CODE				110	110
Performance					
Outdoor Unit				HWT-	1101H8W-E
Hydro Indoor Unit	Air T°	Water T°	HWT-	1101XWH**W-E	1101XWH**W-E
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
Under Floor Heating	Energy Efficiency Class - Low Temp Energy label			A+++	A+++
	Seasonal Space Heating Energy Efficiency			4.56/179	4.56/179
	Max Heating Capacity	-7°C	35°C	kW	10.49
Radiators Heating & DHW	Max Heating Capacity	+7°C	45°C	kW	15.24
	Max Heating Capacity	-7°C	45°C	kW	10.33
	Max Heating Capacity	+7°C	55°C	kW	14.97
	Max Heating Capacity	-7°C	55°C	kW	10.17
	Energy Efficiency Class - Low Temp Energy label			A++	A++
	Seasonal Space Heating Energy Efficiency			3.52/138	3.52/138
Operating Range	Space Heating Operation Outdoor			°C	-25~25
	Hot Water Operation Outdoor			°C	-25~43
	Hydro Heating Operation Indoor			°C	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	2.3
	Rated Water Flow	35°C	7°C	l/m	32.1
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	58/49
	Sound Power Outdoor (Rated-Silent)			dB(A)	70/61
Unit	Height X Width X Depth			mm	1050 x 1010 x 370
	Weight			kg	92
Air Flow	Standard			l/s - m³/h	
	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4
Pipe Connection	Drain Port Connection			mm	16
	Min.-Max. Length / Max Height Difference			m	5-25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.3/8 - 25
Electrical	Power Input Heating			kW	2.3
	Running Current Heating			Amps	3.63
	Maximum Running Current			Amps	13
	Suggested Outdoor Power Supply			V/ph/Hz/A	380-415/3N/50/25
	Baseplate Tape heater			Watts	-
	Interconnection Cable to Hydro Indoor				2 core + earth
	Wiring Connection Power to Outdoor Unit				4 core + earth
					4 core + earth

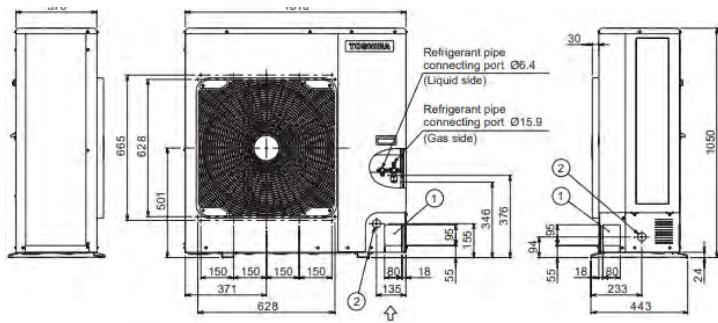
## Accessories

<a href="#">TCB-PCIN3E</a>	Error Output Control Board
<a href="#">TCB-PCM03E</a>	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 1401H8(R)W-E

- Available in single phase.
- Compact and lightweight chassis.
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- Designed to deliver optimum temperature for space heating and domestic hot water.



Hi - Res Image

Retail Price (interactive icons):



UK



ROI



CODE				140	140
Performance					
Outdoor Unit					
Hydro Indoor Unit		Air T°	Water T°	HWT-	1401H8W-E
	Nominal Heating Capacity	+7°C	35°C	kW	14.0
	Max Heating Capacity	+7°C	35°C	kW	18.39
Under Floor Heating	COP	+7°C	35°C	W/W	4.60
	Energy Efficiency Class - Low Temp Energy label		35°C		A+++
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ns %	4.57/183
	Max Heating Capacity	-7°C	35°C	kW	13.05
	Max Heating Capacity	+7°C	45°C	kW	17.89
Radiators Heating & DHW	Max Heating Capacity	-7°C	45°C	kW	12.81
	Max Heating Capacity	+7°C	55°C	kW	11.56
	Max Heating Capacity	-7°C	55°C	kW	9.80
	Energy Efficiency Class - Low Temp Energy label		55°C		A++
	Seasonal Space Heating Energy Efficiency		55°C	SCOP/ns %	3.55/138
Operating Range	Space Heating Operation Outdoor			°C	-25~25
	Hot Water Operation Outdoor			°C	-25~43
	Hydro Heating Operation Indoor			°C	+20 ~ 65
Heating Condition	Input Power	35°C	7°C	kW	3.04
	Rated Water Flow	35°C	7°C	l/m	40.5
Sound	Sound Pressure Outdoor (Rated-Silent) @ 1m			dB(A)	59/50
	Sound Power Outdoor (Rated-Silent)			dB(A)	70/62
Unit	Height X Width X Depth			mm	1050 x 1010 x 370
	Weight			kg	92
Air Flow	Standard			l/s - m3/h	
	Flare Connections (Gas - Liquid)			inch	5/8 - 1/4
Pipe Connection	Drain Port Connection			mm	16
	Min.-Max. Length / Max Height Difference			m	5.25 / 25
	Refrigerant Charge Amount/Chargeless to - Additional Refrigerant Charge			kg/m	1.4/8 25
	Power Input Heating			kW	3.04
	Running Current Heating			Amps	4.60
Electrical	Maximum Running Current			Amps	13
	Suggested Outdoor Power Supply			V/ph/Hz/A	380-415/3N/50/25
	Baseplate Tape heater			Watts	-
	Interconnection Cable to Hydro Indoor				150
	Wiring Connection Power to Outdoor Unit				2 core + earth
					4 core + earth
					4 core + earth

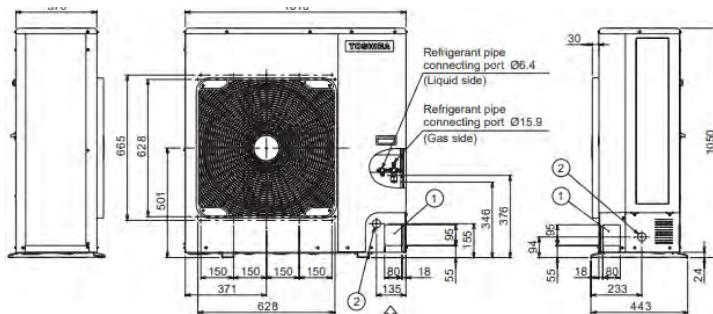
### Accessories

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

\*All [Accessories / Controls](#)

Related Items:

- [BIM Files](#)
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COOL DESIGNS LTD

Raising the Standards in Air Conditioning Distribution

### 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
	Operation Temperature Range Heating	°C	20~55	20~55
	Operation Temperature Range Cooling	°C	7~25	7~25
	Piping Maximum Length	m	none	none
Water	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
	Height x Width x Depth	mm	720 x 450 x 235	720 x 450 x 235
	Weight	kg	27	27
Unit	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

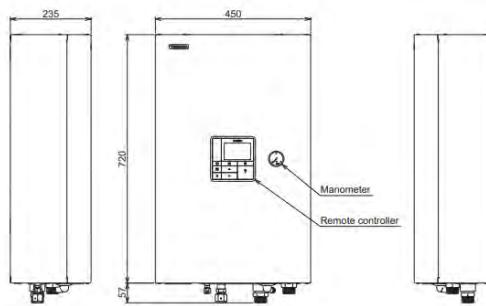
#### Accessories

<a href="#">HWS-AMSU51-E</a>	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
<a href="#">HWS-IWF0010UP-E</a>	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
<a href="#">HWS-IFAIPO1U-E</a>	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
Water	Type		Brazed plate	Brazed plate
	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
	Type		Centrifugal	Centrifugal
	Maximum Motor Output	Watts	60	60
Circulating Pump	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
Unit	Drain Port Hose Inner Diameter	mm	16	16
	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

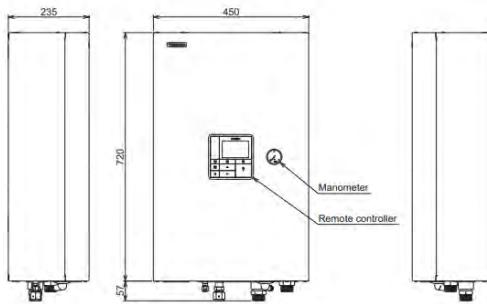
#### Accessories

<a href="#">HWS-AMSU51-E</a>	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
<a href="#">HWS-IWF0010UP-E</a>	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
<a href="#">HWS-IFAIPO1U-E</a>	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
Water	Type		Brazed plate	Brazed plate
	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
	Type		Centrifugal	Centrifugal
	Maximum Motor Output	Watts	60	60
Circulating Pump	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
Unit	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
	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

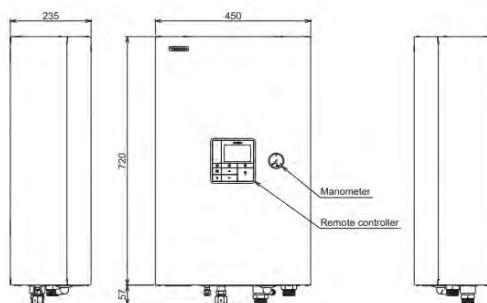
#### Accessories

<a href="#">HWS-AMSU51-E</a>	2nd Remote Controller - Full control including service functions with fully-programmable 7-day timer
<a href="#">HWS-IWF0010UP-E</a>	WIFI Interface - Remote mounted adapter for Toshiba Home AC Control for Estia
<a href="#">HWS-IFAIPO1U-E</a>	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	
	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	
Operating Range	Material		Stainless steel	
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	
	Insulation		Polyurethane foam	
	Height - Diameter	mm	1090 - 550	
Unit	Weight Net	kg	31	
	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
<b>Indoor Unit</b>				
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
<b>Indoor Unit</b>			
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.



Retail Price (interactive icons):

UK £

ROI €

Hi - Res Image

#### Performance

Domestic Hot Water Tank		HWS-	2101CSHM3-UK	
Water	Volume	litres	210	
	Maximum Temperature	°C	75	
	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	
Operating Range	Material		Stainless steel	
	Nominal Storage Capacity Of Units	litres - kg	210 - 251	
	Insulation		Polyurethane foam	
	Height - Diameter	mm	1474 - 550	
Unit	Weight Net	kg	41	
	Heater	kW	2.75	
	Power Supply	V/ph/Hz	220-240/1/50	
Suggested Fused Supply		Amps	16	

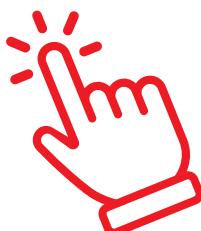
Outdoor Unit (1ph)		40/601HW-E	80/1101H(R)W-E	1401H(R)W-E
<b>Indoor Unit</b>		Wall Mounted Hydro		
Model	HWS-	2101CSHM3-E	2101CSHM3-E	2101CSHM3-E
capacity	litres	210	210	210
Climate		Average	Average	Average
Load profile		L	XL	XL
nwh	%	115	118	107
COPdhw	kW/kW	2.72	2.83	2.6
DHW Energy Efficiency Class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

Outdoor Unit (3ph)		80/1101H8(R)W-E	1401H8(R)W-E
<b>Indoor Unit</b>		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:

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- [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.



Retail Price (interactive icons):

UK £

ROI €

Hi - Res Image

#### Performance

Domestic Hot Water Tank		HWS-	3001CSHM3-UK	
Water	Volume	litres	300	
	Maximum Temperature	°C	75	
	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	
Operating Range	Material		Stainless steel	
	Nominal Storage Capacity Of Units	litres - kg	300 - 360	
	Insulation		Polyurethane foam	
	Height - Diameter	mm	2040 - 550	
Unit	Weight Net	kg	60	
	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
<b>Indoor Unit</b>				
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
<b>Indoor Unit</b>			
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



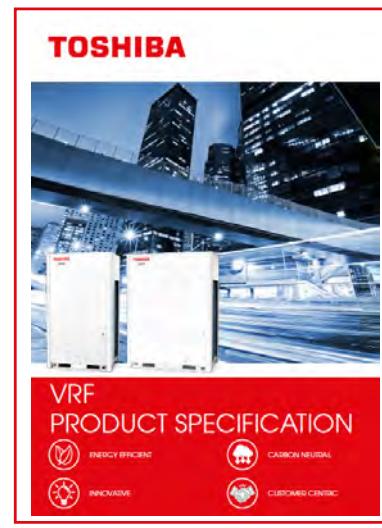
### CONTROLS

	Image	Model Reference	Application	Description	Related Items
Wired Controls		HWS-AMS54E	Wired Remote	Estia Standard Remote Controller	<a href="#">Installation Manual</a>
		HWS-AMSU51-E		Optional 2nd Remote Controller	<a href="#">Installation Manual</a>

	Image	Model Reference	Application	Description	Related Items
Indoor Interface		HWS-IFAIPO1U-E	0-10V	Connection interface	<a href="#">Installation Manual</a>
		HWS-IWF0010UP-E	WI-FI	Connection interface	<a href="#">Owners Manual</a>

	Image	Model Reference	Application	Description	Related Items
Outdoor Interface		TCB-PCIN3E	Output	Error Control Board	<a href="#">Contact Toshiba Technical</a>
		TCB-PCMO3E	Input	Control PCB	<a href="#">Installation Manual</a>

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