

HITACHI

Air-to-Water Solutions 2026



A person with a backpack walking down a city street, viewed from behind, with a red overlay.

— Welcome to the World of Hitachi Cooling & Heating

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A New Era With Bosch Home Comfort Group



Create a Climate Comfort Champion

The heating and air conditioning industry is currently evolving at a rapid pace due to growing demand from our customers for greater comfort, well-being, and sustainable solutions in the context of global warming. In 2025, to accelerate this transformation, Bosch Home Comfort Group acquired Johnson Controls' residential and small commercial HVAC business and the Johnson Controls-Hitachi Air Conditioning joint venture.

Together, we combine the power of our brands and the excellence of our products to devise the most effective and relevant climate comfort solutions. By combining our experience, our capacity for innovation, and our production and research & development network, we will play a leading role in the HVAC market alongside our professional customers and partners.

Key figures for the Bosch Home Comfort Group (from 1 August 2025)


+ 24 000
employees
worldwide


> €4.4 bill.
2025 sales*


33
production sites
internationally


26
development
centers

* 2025 sales figures do not include sales of the acquired business areas

We develop and manufacture internationally, in Europe, America, and Asia. Our international and regional brands enable us to offer locally tailored solutions.



*Fort Lauderdale: joint venture with Carrier, majority stake.
Guangzhou: joint venture with Wanbao, majority shareholdings.
Qingdao: joint venture with Hisense, minority stake.
Shanghai: joint venture with Wanbao, minority stake; in addition: site owned by Bosch HC.

Hitachi Cooling & Heating

Hitachi, a globally recognized premium brand, designs cutting-edge heating and air conditioning solutions. Reliable and high-performing, our products create comfortable spaces and improve everyday quality of life.

Our values

A global approach

We place our customers and consumers at the heart of everything we do.

We take a comprehensive approach, from design to delivery, installation to commissioning, efficient operation to simplified maintenance. We strive to build trust through products designed to last.

People-centered

We simplify complexity, working tirelessly to make our customers' lives easier.

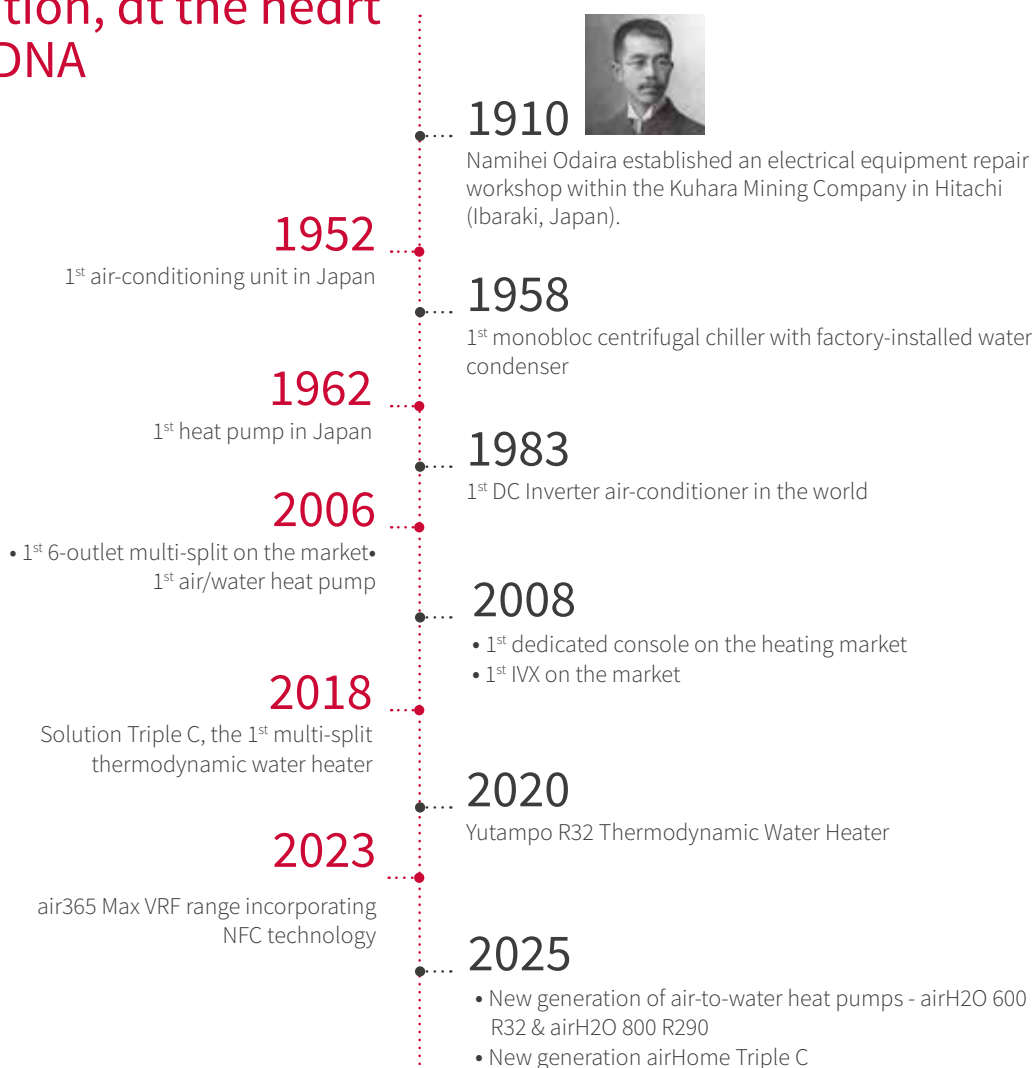
Our smart products and solutions ensure harmony naturally in interior spaces, providing comfort and maintaining air quality.

A pioneering spirit

Since 1952, we have been inventing and reinventing heating and air conditioning solutions.

We introduce new technologies and we improve existing ones. We have contributed to the evolution of the HVAC industry, and we have grown with it.

Innovation, at the heart of our DNA



Focus on the Barcelona plant

Over 30 years in business

A state-of-the-art manufacturing facility

Over 30 years of expertise in the development of heating and air conditioning equipment, this plant has expanded its facilities and now has **14 product lines with +400 product references**, bringing together our DRV, Chillers, and Air-to-Water Heat Pump ranges, which represent almost our entire Hitachi Cooling & Heating equipment portfolio.

Our plant is also the **European center for spare parts** for the Hitachi Cooling & Heating brand with a centralized and automated inventory facility. An important strategic role with the aim of continuously **improving service to the European market**.




45,000
m² of factory floor space

750
m² of showroom floor space with 40 products on display

1
training center with more than 70 products in operation



A plant committed to the environment

Since 2017, Hitachi's European plant **has been recycling 100% of its waste** as part of an ongoing commitment to sustainable development.

It has received 4 "Zero Waste to Landfill" awards, an environmental excellence certificate and an award for the dedication and commitment of its environmental teams.



Hitachi services

Intuitive tools to support you at every stage

1

PRE-SALES

Dedicated tools to support you

Hi-Toolkit for Home

More than a simple **piece of software for selecting air/water heat pumps**, Hi-ToolKit for Home is a genuine **technical and economic tool**.

- Technical validation of heating and domestic hot water solutions.
- Calculation of energy savings.
- Financial simulation of operating costs.
- Edition of a complete technical and financial report.



► hitachi-hitoolkit.com/yutaki

2

FOR YOUR PROJECTS

Tools to make everyday life easier

Yutaki Application

Access + **140 hydraulic configurations** including installations with **1 or 2 circuits**, but also **cascade applications!** In just a few clicks, get detailed information on the accessories you need and the connections to the terminal block.



► yutaki-applications.com



BIM Library

Quickly find & download our BIM objects for your projects.



► <https://bit.ly/bimandco-hitachi>

ErP Site

Find & edit all seasonal energy performance information on all our Residential and Commercial ranges.



► <https://hitachiaircon-erpactive.com/en>

3 ALL THE WAY TO AFTER-SALES 24-hour diagnostics, in complete autonomy

Hitachi IOT applications Remote troubleshooting

Remote maintenance solutions for air-to-water heat pumps.

Perform rapid diagnostics to optimize your operations, thanks to simple, user-friendly interfaces.

- Remote control of machines in operation,
- Real-time operating data,
- And much more...



CSNET Home Pro



airCloud Alarm Code

airCloud Alarm Code is a free application designed for service professionals, giving access to the list of error codes for Hitachi heating and air-conditioning products. An indispensable tool for rapid diagnostics and simplified troubleshooting.

Indicate the model, size and type of product required.
Example: RCI-3.5FSN1E

View alarm codes and download the complete diagnostics you need.

Thanks to a dedicated button, you can also share information with whomever you like, quickly and easily.

The red cursor lets you scroll through the error codes for the selected model.

Once you've selected the correct alarm code, download the "Alarm Diagnosis" PDF file. This document will explain in detail the nature of the error code and the troubleshooting procedure.



Online version:

► aircloud-alarmcode.hitachiaircon.com



Mobile version:



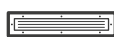
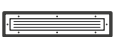
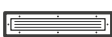
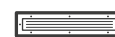
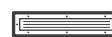
4 HI-PARTS Online tool for distributors:

- Selection of spare parts
- Checking availability and price
- Preparation of quotes, ordering
- Tracking delivery status





Split Air-to-Water Heat pumps

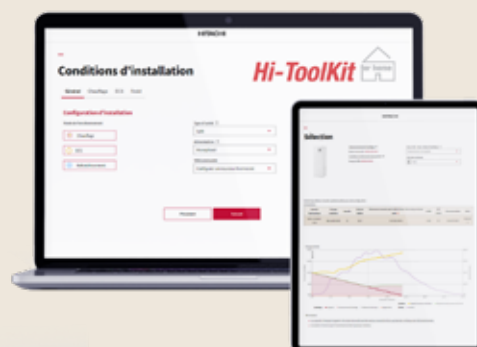
		airH2O 600 S				airH2O 600 S Combi				Yutaki S 2.0		Yutaki S80			Yutaki S80 Combi						
																					
Services	Heating																				
	Cooling															-			-		
	DHW	-								-		-									
Capacities (kW)/ Fluid		3.5	4	6	8	3.5	4	6	8	-		-			-						
		8.5	10	12	14	8.5	10	12	14	-		-			-						
		-				-				20	24	-			-						
	 	-				-						11	14	16	11	14	16				
Type		Split				Split				Split		Split			Split						
Connections		Refrigerant				Refrigerant				Refrigerant		Refrigerant			Refrigerant						
Max water cycle		60°C (up to 8 kW) 65°C (from 8.5 kW)				60°C (up to 8 kW) 65°C (from 8.5 kW)				60° C		80° C			80° C						
Power maintenance without electrical backup		Yes, from the 8.5 kW unit				Yes, from the 8.5 kW unit				No		Yes up to -15° C ext.			Yes up to -15° C ext.						
Applications		New Renovation				New Renovation				New Renovation		Renovation			Renovation						
Number of manageable circuits		Up to 2				Up to 2 (2 nd zone kit integrable)				Up to 2		Up to 2			Up to 2						
Compatible transmitters	Ductable water units																				
	Radiators	 Medium and low temperatures				 Medium and low temperatures				 Medium and low temperatures		 High, medium and low temperatures			 High, medium and low temperatures						
	Underfloor heating																				
	Convector fans																				
Connectivity standard on the airH2O 600 series (optional on other ranges)		 CSNET Home application Stay connected and control your air/water heat pump remotely via an app created just for you.   CSNET Home PRO application The remote maintenance solution.																			

Find the right heat pump for you with HiTool kit for Home

- 1 Enter your project details into the software and we will find the most suitable model for you,
- 2 View the projected energy performances and compare the potential savings compared with other heating solutions,
- 3 Edit a full report with all the details of the project and the device selected.



Website:
hitachi-hitoolkit.com/heating/login



airH₂O 600, the heat pump that simplifies everyday life

A heat pump that rises to the challenge



Practicality

Easy-access components / electrical box accessible from above / terminal block connection **direct access**.



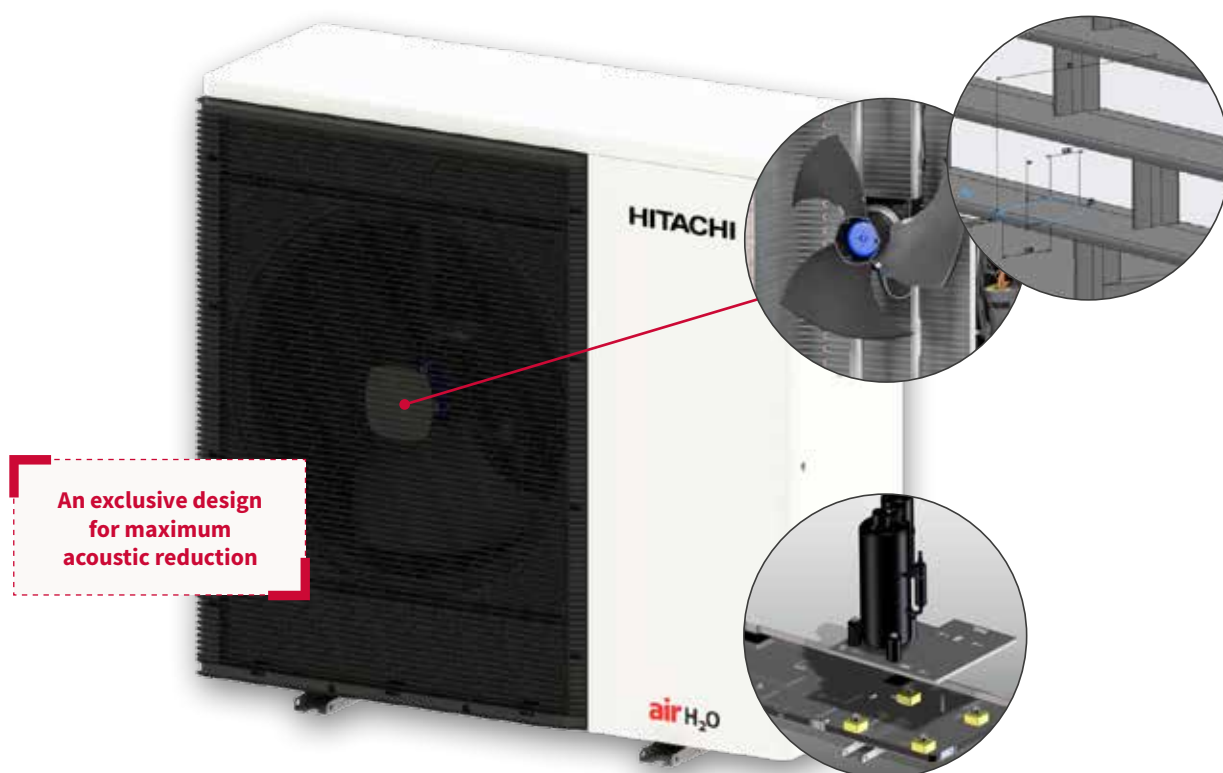
Elegance

A new design combining **modernity and discretion** with an entirely black grille.



High water temperature

With heat production of **up to 65°C***, replace a gas or oil boiler without having to change the transmitters.



An exclusive design for maximum acoustic reduction



Discretion from as little as 27 dB(A)**

Enhanced sound insulation / Optimized fan and motor design / Anti-vibration compressor plate. For some of the finest of **acoustic comfort** on the market.



Performance

Compressor with technologies **CONSTANT POWER & WATER***, capable of delivering the same power and a high water intake even in extreme temperatures.

* From model 8.5 kW.

** Example for an 8.5 kW unit, sound pressure to 5m partial load.



airH₂O 600 S Combi

One of the most compact and capable **HEAT PUMPS** currently on the market



airH₂O 600 S



A high-end design concept

- Copper and brass
- Stainless steel plate heat exchanger
- 220L DHW tank, 100% stainless steel with ACI anode (optional)
- Durability and performance

PLUG & PLAY

All functions as standard

With its configurable input/output terminal: 2 zones, boiler reading, remote DHW management, solar panels, convector fans...

The airH₂O 600 range will meet all your needs, without additional cards.



Smart regulation for greater savings

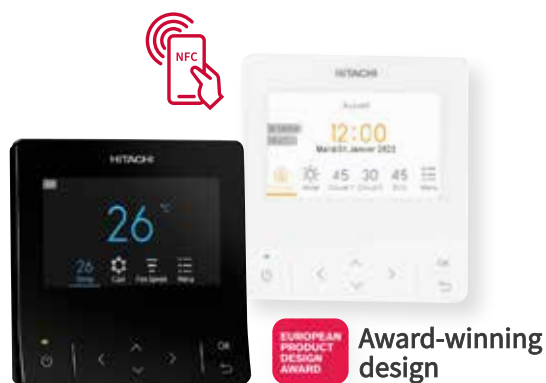
Compensated water management; adjusts the water temperature based on the difference between the setpoint and the actual ambient temperature.



A unique design, one of the most ingenious

Each component has a strategic place, with direct front panel access (valves, filter, circulators, sensors...).

A controller designed to assist you



2-in-1 view of controller and thermostat
PC-ARFH3E(B)

A modern controller:

With its curved shape and color LCD screen.

Simple and intuitive navigation:

With exclusive features to meet the needs of professionals and individuals.

Remote ambient controller:

To act as a thermostat.



The ⊕ Hitachi: NFC settings



Configure quickly and easily:

With the help of NFC technology and the CSNet Home smartphone app.

Accelerate your commissioning process:

Prepare your configurations in advance and load them, or replicate configurations on identical installations.

Optional functions:

Simply activate your optional features without opening the unit or even entering the controller menus.



Advantages for maintaining control anywhere, anytime

CSNET Home/Home PRO connectivity:

Connected Hitachi solutions to **stay in control** wherever you are!

*Included as standard**

CSNET Home

New smartphone app and Web End clients



End user



CSNET Home Pro

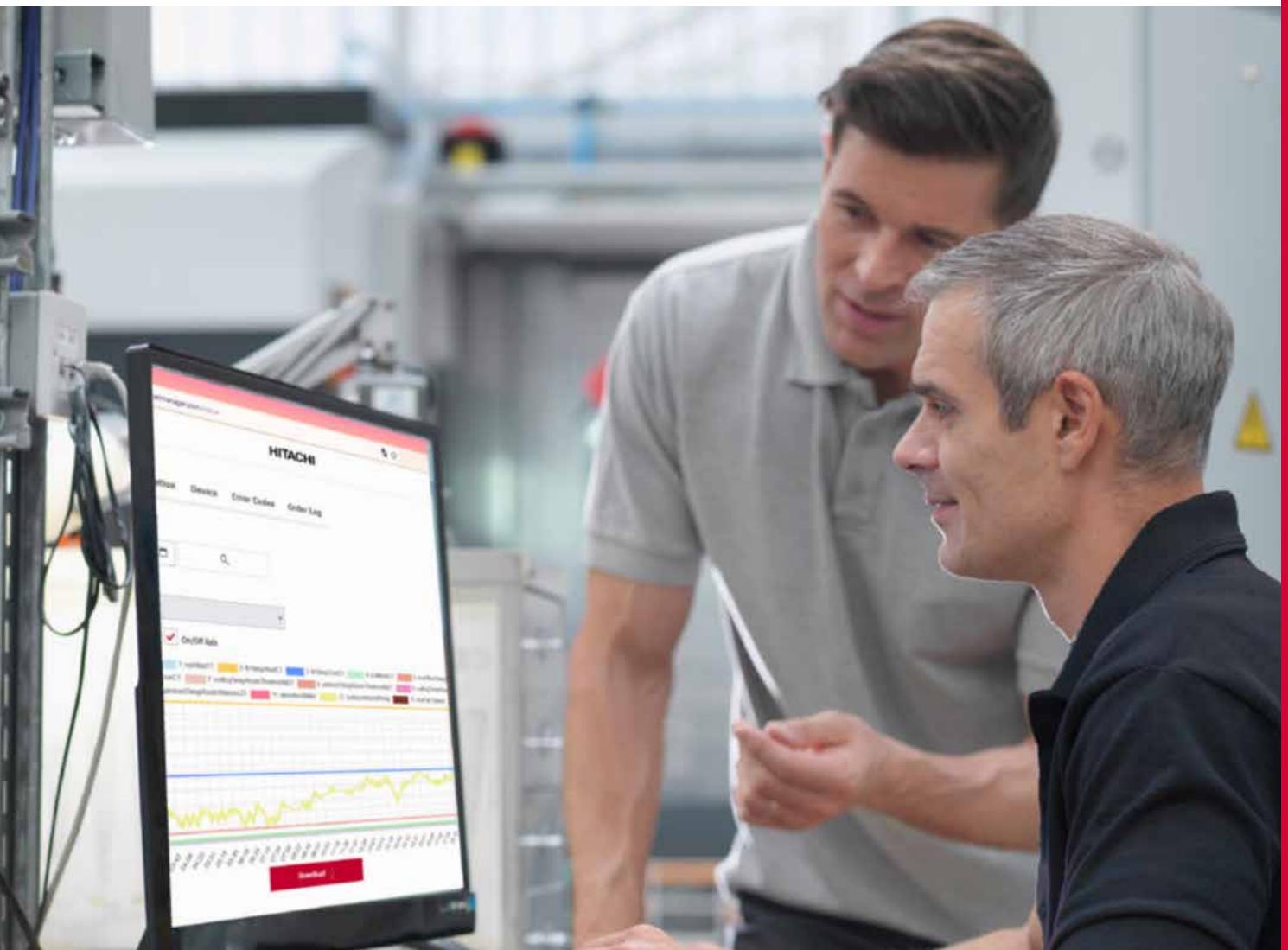
New web application for installers



Maintainer

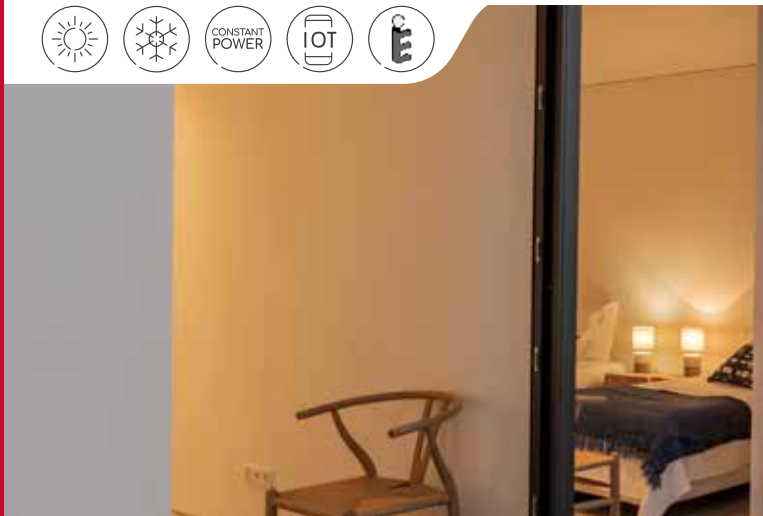


**Only on modules with a PC-ARFH3E(B) controller*



airH₂O 600 S

Air/Water Split refrigeration heat pump, 60 & 65°C, without DHW
3.5 to 14 kW (R32)



+ PERFORMANCE RATING

- Power ratings suitable for all types of projects, new builds and renovations, even in cold weather. **Operates at up to -25°C outside CONSTANT POWER and 65°C from water temperature** from model 8.5 kW, Ideal for renovation work and cold climates.
- The airH2O 600 range delivers **exceptional performance** with Heating Heat Pumps up to 5.1.

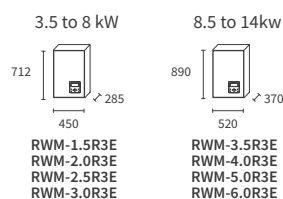
+ PRACTICAL FOR PROFESSIONALS

- Fully-inclusive management:** All standard options (2 zones, boiler backup, remote DHW management, smart grid ready, solar thermal, fan coil units).
- CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- NFC function:** Create/copy/paste/duplicate a configuration directly via your smartphone.

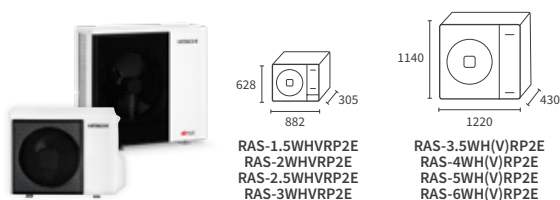
+ EASY TO CONTROL

- Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- CSNet Home included as standard:** Control your comfort remotely at no extra cost.

Indoor units



Outdoor units



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E
Included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Front cover AirH2O 600 S
& S COMBI to use in case of
remote control drift in the
environment.
Ref.: ATW-FCP-03



Black wired remote control
Ref.: PC-ARFH3EB
Option

Hydraulic accessories



2-zone kit with
3-way valve and
wall-mounted
circulator
Ref.: ATW-2TK-07



3-way directional
inversion valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y



Differential discharge
valve
Ref.: ATW-DPOV-01

Options



Domestic hot water storage tank (H x
D) 1270 x 595 mm
Refs.:
200 L: DHWT-200S-3.0H2E
300 L: DHWT-300S-3.0H2E



Reversible AirH2O 600 S kit
Refs.: ATW-CKS-01
(airH2O 600 S - 3.5 / 4 / 6 / 8 kW)
Refs.: ATW-CKS-02
(airH2O 600 - 8.5 / 10 / 12 / 14 kW)



Cascade control cabinet (8 max)
Ref.: ATW-YCC-04

R32 FLUID

Model	Unit	3.5 kW	4 kW	6 kW	8 kW	8.5 kW	10 kW	12 kW	14 kW
Performance, heating									
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	1.5/3.5/6.32	1.85/4.3/6.5	2.1/6/8.6	2.1/8/11	3.7/8.5/10.5	3.7/10/12	4 / 12 / 14	4 / 14 / 16
Capacity/max. heating (-7°C outside / 35°C water)	kW	3 / 5.21	4.5 / 5.5	5.3 / 6.2	5.8 / 7.5	8.5 / 8.5	10 / 10.5	12 / 12	14 / 14.6
Capacity/max. heating (-7°C outside / 55°C water)	kW	3 / 3.84	4 / 4.77	4.7 / 5	5 / 6	8 / 8.5	10 / 10	12 / 12	13.3/13.3
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	5.1	5		4.6	4.67	4.6	4.83	4.35
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.45 / 3.19	4.44 / 3.19	4.44 / 3.23	4.44 / 3.2	4.49 / 3.29		4.48 / 3.26	
Seasonal heating energy efficiency η_s (35°C) single/Tri ⁽¹⁾	%	175				177		176	
Seasonal heating energy efficiency η_s (55°C) single/Tri ⁽¹⁾	%	125				129		127	
Energy rating 35°C/55°C	-	A+++/A++							
Temperature range of water outlet (heating mode)	°C	20/60°C				20/65°C			
Max. temperature at the water outlet in thermodynamic-only mode	°C	60°C up to -5°C ext / -10°C ext with auxiliary				65°C up to -5°C ext / -13°C ext with auxiliary			

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	3.5 / 4.69	4 / 5.12	5.3 / 6	6.5 / 7	8.5 / 8.5	10 / 10	12 / 12	14 / 14
Absorbed capacity cooling (35°C ext/7°C water)	kW	1.21	1.31	1.63	1.77	2.71	2.91	4.19	4.56
EER (reversible model)	-	3.7	3.82	3.6	3.35	3.24	3.05	3	2.89

Hydraulic modules		RWM-1.5R3E	RWM-2.0R3E	RWM-2.5R3E	RWM-3.0R3E	RWM-3.5R3E	RWM-4.0R3E	RWM-5.0R3E	RWM-6.0R3E
Auxiliary electric resistance heating as standard / Three-stage	kW	3 (1+1+1)				6 (2 + 2 + 2)			
Net weight	kg	34	36			37	46	48	
Dimensions S (HxLxD)	mm	712 x 450 x 285				890 x 520 x 370			
Sound pressure level	dB(A)	30							
Remote control	-	included PC-ARFH3E							

Hydraulic features

Expansion vessel	L	6							
Water flow (min/rated/max)	m³/h	0.5/0.6/2.1	0.5/0.8/2.1	0.6/1/2.5	0.6/1.2/2.5	1/1.4/2.8	1/1.7/2.8	1.1/2.1/3	1.1/2.4/3
Hydraulic connections for heating (male/male valves supplied)	inches	1"							
Min. system water capacity	L	28				50		55	

Electrical features

Power supply	-	230V/1Ph/50Hz				230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz			
SINGLE-PHASE 230V	Intensity max with auxiliary resistance	A	13.7				26.7		
	Cable section (mm²) / max length (m) ⁽²⁾	-	3 x 2.5/28				3 x 6/30		
3-PHASE 400V	Intensity max with auxiliary resistance	A	-				9.1		
	Cable section (mm²) / max length (m) ⁽²⁾	-	-				5 x 2.5/20		

Outdoor units		RAS-1.5WHVRP2E	RAS-2WHVRP2E	RAS-2.5WHVRP2E	RAS-3WHVRP2E	RAS-3.5WH(V)RP2E	RAS-4WH(V)RP2E	RAS-5WH(V)RP2E	RAS-6WH(V)RP2E
Pressure level at 5m / Sound power in hot mode ⁽³⁾	dB(A)	23/50			23/51		27/53		28/54
Dimensions (HxWxD)	mm	682 x 882 x 305				1140 x 1220 x 430			
Net weight	kg	45				112		114	
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -20~+25 // -20~+35				+10~+46 // -25~+25 // -25~+43			

Cooling properties

Subject to the DESP, category II

Cooling properties		Subject to the user's design			
Diameter of refrigeration pipes (Liq - Gas)	inches	1/4" - 1/2"	1/4" - 1/2" up to 30m*	1/4" - 1/2" up to 30m (only hot)*	
Min./max. length/max. drop	m	3 - 50/20	3 - 40/20	5 - 50/20	5 - 50/20
Refrigerant / Refrigerant charge for 10m	- / kg	R32 / 1.1	R32 / 1.2	R32 / 1.8	R32 / 2.1
Compressor	-	ROTARY DC INVERTER			

Electrical features

Power supply		-	230V/1Ph/50Hz				230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz	
SINGLE-PHASE 230V	Max. current	A	12.6		16.5		28.6	
	Cable section (mm ²) / max length (m) ⁽²⁾	-	3 x 2.5/28	3 x 2.5/28	3 x 4/24	3 x 4/21	3 x 6/30	
3-PHASE 400V	Max. current	A	-				16.1	
	Cable section (mm ²) / max length (m) ⁽²⁾	-	-				5 x 4/16	
Indoor/Outdoor connection (protected)		mm ²	2 x 0.75					

Retail price per unit excluding taxes

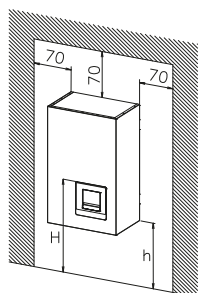
Hydraulic modules (Remote control included)	RWM-1.5R3E	RWM-2.0R3E	RWM-2.5R3E	RWM-3.0R3E	RWM-3.5R3E	RWM-4.0R3E	RWM-5.0R3E	RWM-6.0R3E
Premium outdoor units Single-phase units	RAS-1.5WHVRP2E	RAS-2WHVRP2E	RAS-2.5WHVRP2E	RAS-3WHVRP2E	RAS-3.5WHVRP2E	RAS-4WHVRP2E	RAS-5WHVRP2E	RAS-6WHVRP2E
Premium outdoor units Three-phase	-				RAS-3.5WHRP2E	RAS-4WHRP2E	RAS-5WHRP2E	RAS-6WHRP2E
Price for the whole set Single-phase Hydraulic module + outdoor unit								
Price for the whole set Three-phase Hydraulic module + outdoor unit	-							
Reversible kit (Optional)	ATW-CKS-01				ATW-CKS-02			

⁽¹⁾ = single⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825.⁽³⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards.⁽⁴⁾ Pressure to 5m in night mode - In accordance with EN12102-1 / ErP

*For distances greater than 30 m or cooling, please consult us or refer to the technical manual. Refrigerator valves on unit and module in 1/4 5/8, provide adapters in accordance with the piping used / not supplied by Hitachi (refer to the technical manual for more information).

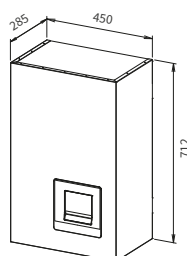
Prepare your construction site airH2O 600 S

1. How much space do I need for my hydraulic module?

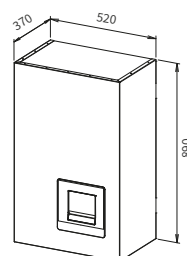


Models 3.5 to 14 kW

H = 1250mm recommended for easy access to the controller
h = 350mm min for installing stop valves and connections

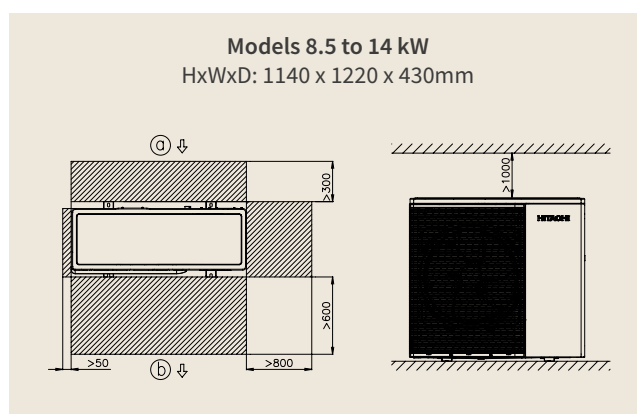
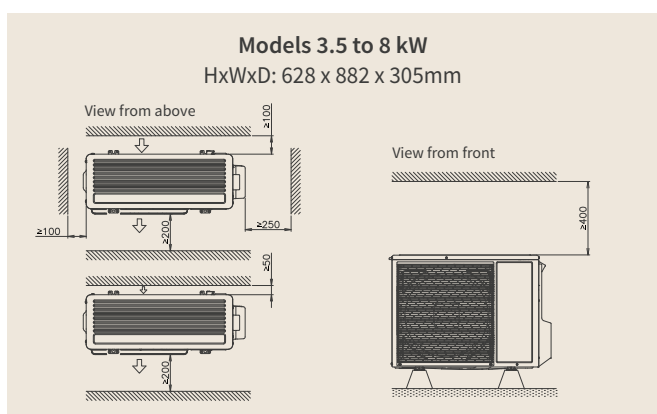


Models 3.5 to 8 kW



Models 8.5 to 14 kW

2. How much space do I need for my outdoor unit?



3. Which hydraulic and cooling connections are required?

Cooling properties	Unit	3.5 to 8 kW	8.5 to 14 kW
Diameter of cooling pipes (Liq - Gas)	inches	1/4" - 1/2" 3/8 5/8 > to 30m* for the 6 and 8 kW	1/4" - 1/2" up to 30m* and heat only
Hydraulic features			
Hydraulic connections for heating (male/male valves supplied)	inches		1"

*For distances greater than 30m or cooling, please consult us or refer to the technical manual. Refrigerator valves on unit and module in 1/4 5/8, provide adapters in accordance with the piping used / not supplied by Hitachi (refer to the technical manual for more information).

4. Which electrical connection should I provide?

Please note that these sections and protections are given for intensities with additional heating resistances.

If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

	Power supply			Bus
Outdoor units	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V
	Max A	A/curve	mm ²	m
RAS-1.5WHVRP2E	12.6	16 / D	3G2.5	28
RAS-2WHVRP2E	12.6	16 / D	3G2.5	28
RAS-2.5WHVRP2E	16.5	20 / D	3G4	24
RAS-3WHVRP2E	16.5	20 / D	3G4	34

	Power supply			Bus
Hydraulic modules	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V
	Max A	A/curve	mm ²	m
RWM-1.5R3E	13.7	16 / C	3G2.5	23
RWM-2.0R3E	13.7	16 / C	3G2.5	23
RWM-2.5R3E	13.7	16 / C	3G2.5	23
RWM-3.0R3E	13.7	16 / C	3G2.5	23

	Power supply			Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V
	Max A	A/curve	mm ²	m
RAS-3.5WHVRP2E / WHRP2E	28.6 / 16.1	32 / 20	3G6/5G4	30 / 16
RAS-4WHVRP2E/WHRP2E				
RAS-5WHVRP2E/WHRP2E				
RAS-6WHVRP2E/WHRP2E				

	Power supply			Bus
Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V
	Max A	A/curve	mm ²	m
RWM-3.5R3E	26.7 / 9.1	32 / 16 - C	3G6/5G2.5	28 / 20
RWM-4.0R3E				
RWM-5.0R3E				
RWM-6.0R3E				

Hydraulic setups airH2O 600S

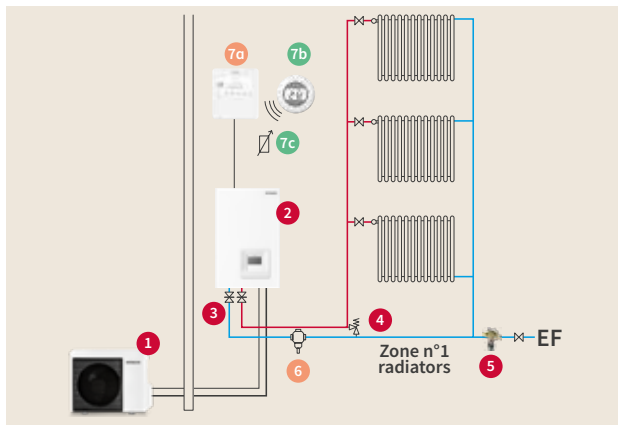
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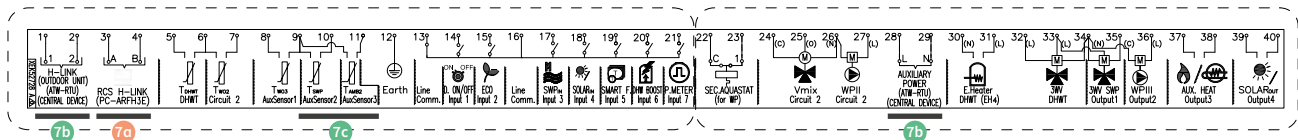
SPLIT-AIR-TO-WATER
HEAT PUMPS

1 control zone - direct radiators

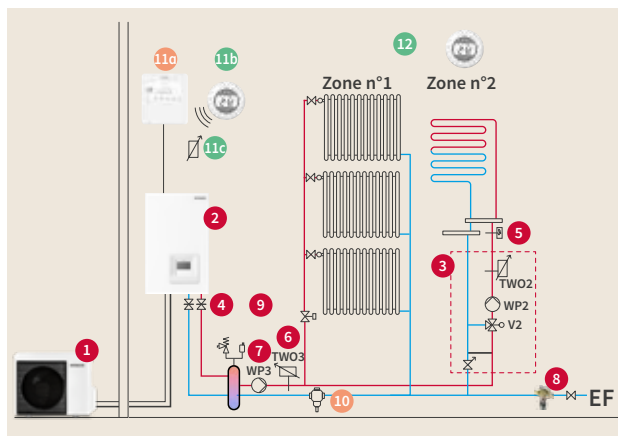


1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank included)	Mandatory	Hitachi supplied
3	Isolating valve	Mandatory	Hitachi supplied (with module)
4	Differential discharge valve	Mandatory	Hitachi option (ATW-DPOV-01)
5	Disconnector	Mandatory	Not supplied
6	Mud pot	Recommended (Required if floor)	Not supplied
7a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
7b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
7c	Wired ambiance sensor	Option	Hitachi option (ATW-ITS-01)

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- **Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**

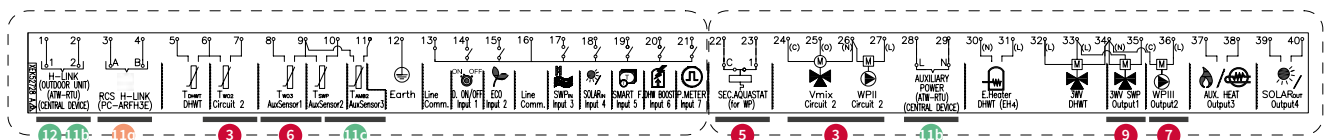


2 control zones - disconnection with direct radiators, mixed flooring (standard mode - reversible)



1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Hitachi supplied (with module)
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02Y)
7	Secondary circulator	Mandatory	Not supplied
8	Disconnector	Mandatory	Not supplied
9	Motorized valve	Mandatory (if refresh)	Not supplied
10	Mud pot	Recommended	Not supplied
11a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
11b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
11c	Wired ambiance sensor	Option	Hitachi option (ATW-ITS-01)
12	Compensation thermostat zone 2	Option	Hitachi option RATW-RTU-06 if RTU-07 zone 1

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- **Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**



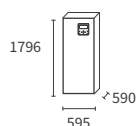
Output 230V
Set up in "cooling mode"

airH₂O 600 S Combi

Air/Water Split refrigeration heat pump, 60 & 65°C, with integrated DHW
3.5 to 14 kW (R32)

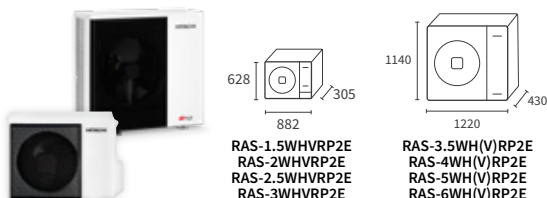


Indoor units



RWD-1.5RW3E-220S RWD-3.5RW3E-220S
RWD-2.0RW3E-220S RWD-4.0RW3E-220S
RWD-2.5RW3E-220S RWD-5.0RW3E-220S
RWD-3.0RW3E-220S RWD-6.0RW3E-220S

Outdoor units



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E
Included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Front cover AirH2O 600 S
& S COMBI to use in case of
remote control malfunction
in the room.
Ref.: ATW-FCP-03



Black wired remote control
Ref.: PC-ARFH3EB
Option

Hydraulic accessories



2-zone integrated kit
Ref.: ATW-2TK-08



3-way directional inversion valve
DHW and swimming pool applications.
Ref.: ATW-3WV-01



Universal sensor
Sanitation, hydraulic decoupling, Circuit 2,
swimming pool, solar (to be expected if the
tank is not a Hitachi DHWT).
Ref.: ATW-WTS-02Y

Options



Reversible kit
Equipment required to operate
in refresh mode.
Ref.: ATW-CKSC-02
(insulation + jumper)

+ PERFORMANCE RATING

- Power ratings suitable for all types of projects, new builds and renovations, even in cold weather. **Operation down to -25°C outside and CONSTANT POWER function and 65°C from water temperature** from model 8.5 kW, ideal for renovation work and cold climates.
- The airH2O 600 range delivers **exceptional levels of performance** with heating heat pump up to 5.1 and DHW up to 3.
- A **very robust 220L stainless steel tank** providing up to 288L of hot water at 40°C (profil L).

+ PRACTICAL FOR PROFESSIONALS

- Fully-inclusive management:** All standard options (2 zones, boiler backup, smart grid ready, solar thermal, fan coil units).
- CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- NFC function** Create/copy/paste/duplicate a configuration directly via your smartphone.

+ EASY TO CONTROL

- Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- CSNet Home included as standard:** Control your comfort remotely at no extra cost.

airH2O 600 S Combi

R32 FLUID

Model	Unit	3.5 kW	4 kW	6 kW	8 kW	8.5 kW	10 kW	12 kW	14 kW
Performance, heating									
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	1.5/3.5/6.32	1.85/4.3/6.5	2.1/6/8.6	2.1/8/11	3.7/8.5/10.5	3.7/10/12	4 / 12 / 14	4 / 14 / 16
Capacity/max. heating (-7°C outside / 35°C water)	kW	3 / 5.21	4.5 / 5.5	5.3 / 6.2	5.8 / 7.5	8.5 / 8.5	10 / 10.5	12 / 12	14 / 14.6
Capacity/max. heating (-7°C outside / 55°C water)	kW	3 / 3.84	4 / 4.77	4.7 / 5	5 / 6	8 / 8.5	10 / 10	12 / 12	13.3 / 13.3
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	5.1		5	4.6	4.67	4.6	4.83	4.35
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.45 / 3.19	4.44 / 3.19	4.44 / 3.23	4.44 / 3.2	4.49 / 3.29		4.48 / 3.26	
Seasonal heating energy efficiency η _s (35°C) single/Tri ⁽¹⁾	%		175			177		176	
Seasonal heating energy efficiency η _s (55°C) single/Tri ⁽¹⁾	%		125			129		127	
Energy rating 35°C/55°C	-				A+++/A++				
Temperature range of water outlet (heating mode)	°C		20/60°C				20/65°C		
Max. temperature at the water outlet in thermodynamic-only mode	°C		60°C up to -5°C ext / -10°C ext with auxiliary			65°C up to -5°C ext / -13°C ext with auxiliary			

DHW performance levels (only S Combi)

DHW heat pump (220L) in accordance with EN16147	-		3.1				2.83		
Seasonal energy efficiency n _{wh} 220L L cycle	%		126				116		
DHW energy rating	-		A+				A+		
Temperature range of water outlet (DHW mode)	°C					30/55°C			
V _{max} at 40°C acc to EN16147	L		283				273		

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	3.5 / 4.69	4 / 5.12	5.3 / 6	6.5 / 7	8.5 / 8.5	10 / 10	12 / 12	14 / 14
Absorbed capacity cooling (35°C ext/7°C water)	kW	1.21	1.31	1.63	1.77	2.71	2.91	4.19	4.56
EER (reversible model)	-	3.7	3.82	3.6	3.35	3.24	3.05	3	2.89

Hydraulic modules		RWD-1.5RW3E-220S	RWD-2.0RW3E-220S	RWD-2.5RW3E-220S	RWD-3.0RW3E-220S	RWD-3.5RW3E-220S	RWD-4.0RW3E-220S	RWD-5.0RW3E-220S	RWD-6.0RW3E-220S	
Auxiliary electric resistance heating as standard / Three-stage	kW	3 (1+1+1)				6 (2 + 2 + 2)				
DHW auxiliary electric resistance as standard	kW					2.7				
Net weight, S Combi (220L)	kg	108					110			
Dimensions S Combi (HxLxD)	mm	1796 x 595 x 590					1796 x 595 x 590			
Sound pressure level	dB(A)						30			
Volume of DHW tank/Material of DHW tank	L						220 L / Stainless steel			
Remote control	-						included PC-ARFH3E			

Hydraulic features

Expansion vessel	L						6		
Water flow (min/rated/max)	m³/h	0.5/0.6/2.1	0.5/0.8/2.1	0.6/1/2.5	0.6/1.4/2.5	1/1.4/2.7	1/1.7/2.7	1.1/2.1/2.8	1.1/2.4/2.8
Hydraulic connections for heating (male/male valves supplied)	inches						1"		
DHW hydraulic connection	inches						3/4"		
Min. system water capacity	L	28					50	55	

Electrical features

Power supply	-	230V/1Ph/50Hz					230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Maximum intensity with auxiliary resistance + tank resistance S COMBI	A					38.7		
	Cable section (mm²) / max. length (m) ⁽²⁾	-					3 x 10/30		
3-PHASE 400V	Maximum intensity with auxiliary resistance + tank resistance S COMBI	A					17.3		
	Cable section (mm²) / max. length (m) ⁽²⁾	-					5 x 6/20		

Outdoor units		RAS-1.5WHVRP2E	RAS-2WHVRP2E	RAS-2.5WHVRP2E	RAS-3WHVRP2E	RAS-3.5WH(V)RP2E	RAS-4WH(V)RP2E	RAS-5WH(V)RP2E	RAS-6WH(V)RP2E
Pressure level at 5m / Sound power in hot mode ⁽¹⁾	dB(A)	23/50		23/51		27/53		28/54	
Dimensions (HxWxD)	mm	628 x 882 x 305				1140 x 1220 x 430			
Net weight	kg	45				112		114	
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -20~+25 // -20~+35				+10~+46 // -25~+25 // -25~+43			

Cooling properties**Subject to the DESP, category II**

Diameter of refrigeration pipes (Liq - Gas)	inches	1/4" - 1/2"	1/4" - 1/2" up to 30m*	1/4" - 1/2" up to 30m (only hot)*	
Min./max. length/max. drop	m	3 - 50/20	3 - 40/20	5 - 50/20	
Refrigerant / Refrigerant charge for 10m	- / kg	R32 / 1.1	R32 / 1.2	R32 / 1.8	R32 / 2.1
Compressor	-	ROTARY DC INVERTER			

Electrical features

Power supply		-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz	
SINGLE-PHASE 230V	Max. current	A	12.6	16.5		28.6	
	Cable section (mm²) / max. length (m) ⁽²⁾	-	3 x 2.5/28	3 x 4/24	3 x 4/21	3 x 6/30	
3-PHASE 400V	Max. current	A	-			16.1	
	Cable section (mm²) / max length (m) ⁽²⁾	-	-			5 x 2.5/16	
Indoor/Outdoor connection (protected)		mm²	2 x 0.75				

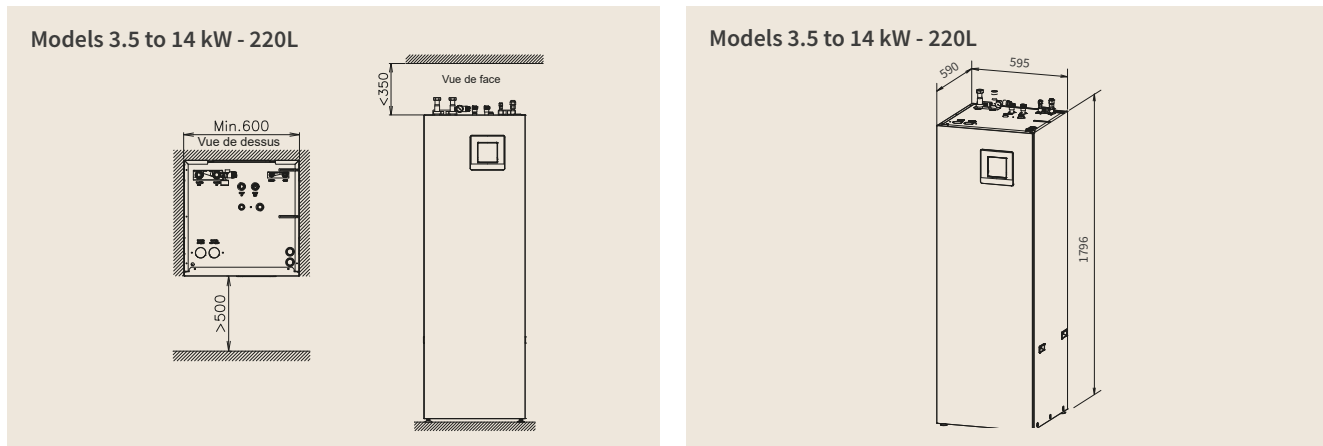
Retail price per unit excluding taxes

Hydraulic modules (Remote control included)		RWD-1.5RW3E-220S	RWD-2.0RW3E-220S	RWD-2.5RW3E-220S	RWD-3.0RW3E-220S	RWD-3.5RW3E-220S	RWD-4.0RW3E-220S	RWD-5.0RW3E-220S	RWD-6.0RW3E-220S
Premium outdoor units Single-phase units		RAS-1.5WHVRP2E	RAS-2WHVRP2E	RAS-2.5WHVRP2E	RAS-3WHVRP2E	RAS-3.5WHVRP2E	RAS-4WHVRP2E	RAS-5WHVRP2E	RAS-6WHVRP2E
Premium outdoor units Three-phase						RAS-3.5WHRP2E	RAS-4WHRP2E	RAS-5WHRP2E	RAS-6WHRP2E
Price for the whole set Single-phase Hydraulic module + outdoor unit									
Price for the whole set Three-phase Hydraulic module + outdoor unit									
Reversible kit (Optional)		ATW-CKSC-02							

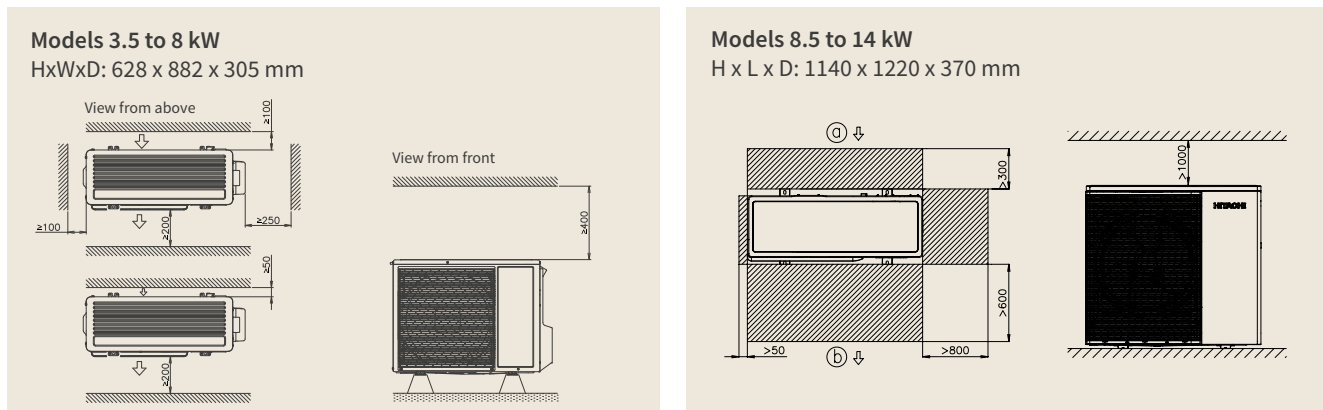
⁽¹⁾ = single ⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825. ⁽³⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards. ⁽⁴⁾ Pressure to 5 m in night mode - In accordance with EN12102-1 / ErP. *For distances greater than 30 m or cooling, please consult us or refer to the technical manual. Refrigerator valves on unit and module in 1/4 5/8, provide adapters in accordance with the piping used / not supplied by Hitachi (refer to the technical manual for more information).

Prepare your construction site airH2O 600 S Combi

1. How much space do I need for my hydraulic module?



2. How much space do I need for my outdoor unit?



3. Which hydraulic and cooling connections are required?

Hydraulic features	Unit	3.5 to 8 kW	8.5 to 14 kW
Hydraulic connections Heating (male/male valves supplied)	inches	1"	1"
Hydraulic connections for DHW	inches	3/4"	3/4"
Cooling properties		3.5 to 8 kW	8.5 to 14 kW
Diameter of cooling pipes (Liq - Gas)	inches	1/4" - 1/2" 3/8 5/8 > to 30m* for the 6 and 8 kW	1/4" - 1/2" up to 30m* and heat only

*For distances greater than 30 m or cooling, please consult us or refer to the technical manual. Refrigerator valves on unit and module in 1/4 5/8, provide adapters in accordance with the piping used / not supplied by Hitachi (refer to the technical manual for more information).

4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog.

Data provided as a guide, please refer to the applicable electrical standard.

Power supply					Bus
Outdoor units	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V	Lycy shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RAS-1.5WHVRP2E	12.6	16 / D	3G2.5	28	
RAS-2WHVRP2E	12.6	16 / D	3G2.5	28	
RAS-2.5WHVRP2E	16.5	20 / D	3G4	24	
RAS-3WHVRP2E	16.5	20 / D	3G4	34	
Power supply					Bus
Hydraulic modules	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V	Lycy shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RWD-1.5RW3E-220S	25.6	32 / C	3G6	28	
RWD-2.0RW3E-220S	25.6	32 / C	3G6	28	
RWD-2.5RW3E-220S	25.6	32 / C	3G6	28	
RWD-3.0RW3E-220S	25.6	32 / C	3G6	28	

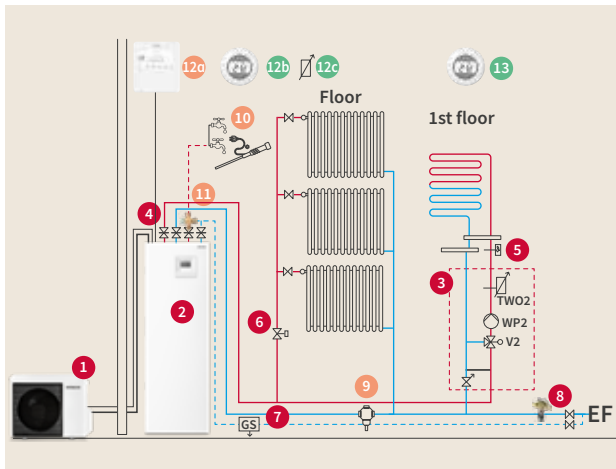
Power supply					Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lycy shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RAS-3.5WHVRP2E / WHRP2E	28.6 / 16.1	32 / 20	3G6/5G4	30 / 16	
RAS-4WHVRP2E/WHRP2E					
RAS-5WHVRP2E/WHRP2E					
RAS-6WHVRP2E/WHRP2E					
Power supply					Bus
Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lycy shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RWD-3.5RW3E220S	38.7 / 21.3	50 / 25- C	3G10/5G6	28 / 20	
RWD-4.0RW3E220S					
RWD-5.0RW3E220S					
RWD-6.0RW3E220S					

Hydraulic setups airH2O 600 S Combi

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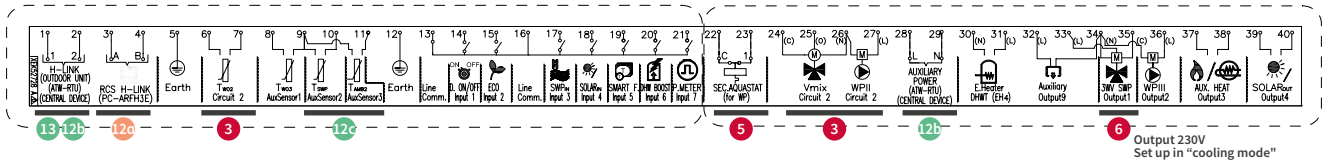


2 control zones: Direct radiators, mixed flooring (reversible)

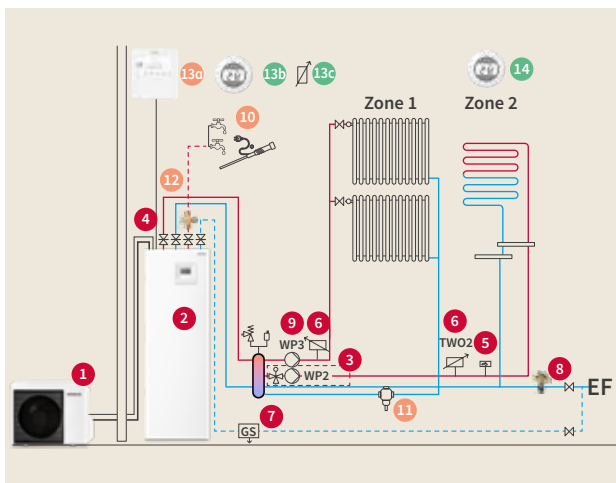


1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valves heating 1 st zone	Mandatory	Hitachi supplied (to be provided on site for the second zone)
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Motorized valve	Mandatory (if refresh)	Not supplied
7	DNW safety unit	Mandatory	Not supplied
8	Disconnector	Mandatory	Not supplied
9	Mud pot	Recommended (Required if floor)	Not supplied
10	Active Titanium Anode	Recommended	Option (ATW-CP-05)
11	Thermostatic mixer	Recommended	Not supplied
12a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
12b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
12c	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
13	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).

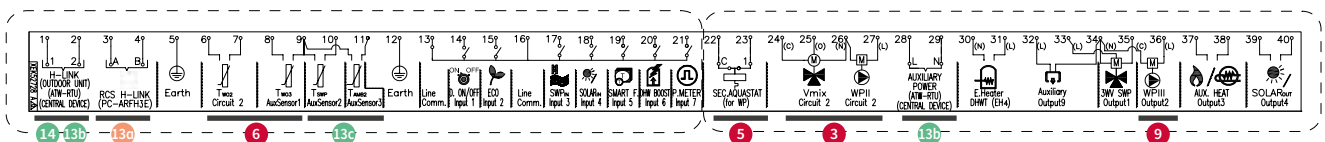


2 control zones - radiators and disconnected floor (parallel mode - reversible)



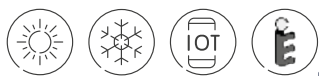
1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit floor with mixer valve and circulator, Thermador or STG type	Mandatory	Not supplied
4	Isolating valve heating	Mandatory	Hitachi supplied (with module)
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02Y)
7	DNW safety unit	Mandatory	Not supplied
8	Disconnector	Mandatory	Not supplied
9	Secondary circulator	Mandatory	Not supplied
10	Active Titanium Anode	Recommended	Option (ATW-CP-05)
11	Mud pot	Recommended	Not supplied
12	Thermostatic mixer	Recommended	Not supplied
12a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
12b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
12c	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
13	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



Yutaki S 2.0

Air/Water Split Heat Pump, 60°C, without DHW
20 to 24kW (R410A)



+ PERFORMANCE RATING

- Power ratings suitable for all types of projects, new builds and renovations, even in cold weather, operating down to -25°C outside and water temperatures from 60°C down to -10°C without resistance.
- The Yutaki 2.0 range offers exceptional performance with heating COPs of up to 5.25.

+ PRACTICAL FOR PROFESSIONALS

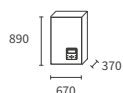
- **Fully-inclusive management:** All standard options (2 zones, boiler backup, remote DHW management, smart grid ready, solar thermal, fan coil units).
- **CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- **NFC function** Create/copy/paste/duplicate a configuration directly via your smartphone.

+ EASY TO CONTROL

- **Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- **CSNet Home included as standard:** Control your comfort remotely at no extra cost.

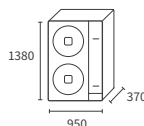
Indoor units

Yutaki S 2.0
20 to 24kW



RWM-8.0N3E
RWM-10.0N3E

Outdoor units



RAS-8WHNPE
RAS-10WHNPE

Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E
Included



Wireless remote control
for ambient compensation
1st circuit.
Ref.: ATW-RTU-07



Front cover Yutaki S 2.0
and S COMBI 2.0
Use if moving the
remote control in the
environment.
Ref.: ATW-FCP-03



CSNET Home connectivity
gateway
Ref.: ATW-IOT-01

Hydraulic accessories



2-zone kit with 3-way
valve and wall-mounted
circulator
Ref.: ATW-2TK-07



3-way directional
inversion valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y



Differential discharge
valve
Ref.: ATW-DPOV-01

Options



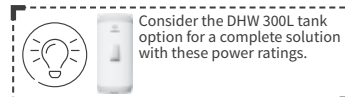
DHW storage tank
Refs.:
200 L: DHWT-200S-3.0H2E
(H x D) 1270 x 595 mm
300 L: DHWT-300S-3.0H2E
(H x D) 1750 x 595 mm



Yutaki S 2.0 reversible kit
ATW-CKS-03 (Yutaki S 2.0
- 8 / 10CV)



Cascade control cabinet
(8 max)
Ref.: ATW-YCC-04



Model	Unit	YUTAKI S 2.0 20kW	YUTAKI S 2.0 24kW
Performance, Heating			
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	9.00/20.00/25.50	10.00/24.00/32.00
Capacity/max. heating (-7°C outside / 35°C water)	kW	14.2 / 17.9	16.5 / 21.0
Capacity/max. heating (-7°C outside / 45°C water)	kW	15.00 / 16.60	16.50 / 18.50
Capacity/max. heating (-7°C outside / 55°C water)	kW	12.5 / 14.5	15.5 / 17.3
Capacity Heating (7°C outside/35°C water)	kW	4.65	5.59
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	4.30	4.29
SCOP average climate 35°C/55°C in accordance with EN14825	-	3.88/3.13	3.6 / 2.98
Seasonal energy efficiency Heating η _s (35°C) Single/Tri ⁽¹⁾	%	-/150	-/141
Seasonal energy efficiency Heating η _s (55°C) Single/Tri ⁽¹⁾	%	-/120	-/116
Energy rating 35°C / 55°C	-	A++/A+	A+/A+
Temperature range of water outlet (heating mode)	°C	20/60°C	
Max. temperature at the water outlet in thermodynamic-only mode	°C	60°C up to -10° C ext	

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	14 / 16.4	17.5 / 20.6
Absorbed capacity cooling (35°C ext/7°C water)	kW	4.48	4.08
EER (reversible model)	-	3.12	2.81

Hydraulic modules	Unit	RWM-8.0N3E	RWM-10.0N3E
Additional electrical heating element as standard/3-level	kW	9 (3+3+3)	9 (3+3+3)
Net weight	kg	60	62
Dimensions (HxWxD)	mm	890 x 670 x 370	
Sound power	dB(A)	47	
Remote control		Included	

Hydraulic features

Expansion vessel	L	10	
Water flow (min/rated/max)	m³/h	2.00/3.4/4.50	2.20/4.1/4.60
Hydraulic connections for heating (male/male valves supplied)	inches	1" 1/4	
Min. system water capacity	L	76	79

Electrical features

Power supply	-	400V/3Ph/50Hz	
SINGLE-PHASE 230V	Max. current with added resistance	A	-
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-
	Max. current with added resistance + tank resistance/Yutaki S Optional	A	-
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-
3-PHASE 400V	Max. current with additional resistance	-	13.7
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 2.5/20
	Max. current with additional resistance + tank resistance/Yutaki S Optional	-	26.7
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 6/20

Premium outdoor units	Unit	RAS-8WHNPE	RAS-10WHNPE
Pressure level at 5m / Acoustic pressure in Heating mode ⁽³⁾	dB(A)	45/59	45/60
Air flow rate	m³/h	7620	8040
Dimensions (HxWxD)	mm	1380 x 950 x 370	
Net weight	kg	137	139
Operating ranges in Cooling/Heating/DHW mode	°C		

Cooling properties

Not subject to the DESP

Diameter of refrigeration pipes (Liq - Gas)	inches	3/8" 1"	1/2" 1"
Min./max. length/max. drop	m	5 - 70/20	
Initial prefilled refrigerant/Additional load	kg/g/m	5 for 15m/65	5.3 for 15m/65
Refrigerant	-	R410A	
Compressor	-	SCROLL	

Electrical features

Power supply	-	400V/3Ph/50Hz	
SINGLE-PHASE 230V	Max. current	A	-
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-
3-PHASE 400V	Max. current	A	24
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 6/26
Indoor/Outdoor connection (protected)	mm²	2 x 0.75	

Retail price per unit excluding taxes

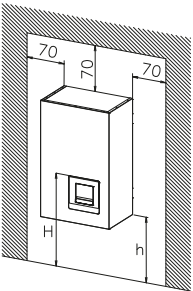
Hydraulic modules (Remote control included)	RWM-8.0N1E	RWM-10.0N1E
Premium outdoor units Three-phase	RAS-8WHNPE	RAS-10WHNPE
Price for the whole set Three-phase Hydraulic module + outdoor unit		
Reversible kit (Optional)	ATW-CKS-03	

⁽¹⁾ Non-regulated seasonal energy efficiency, according to EN14825. ⁽²⁾ Sections given for information purposes only. Compliant with the applicable electrical standards. (V) = single. ⁽³⁾ Pressure to 5m in Silent Mode / In accordance with EN-12102.

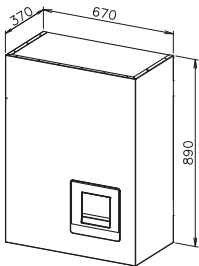
Prepare your construction site

Yutaki S 2.0

1. How much space do I need for my hydraulic module?



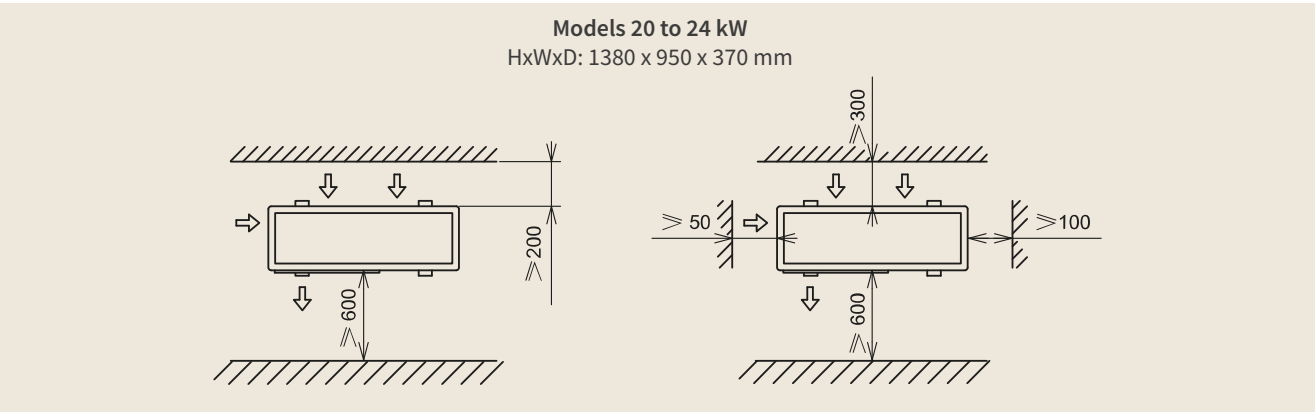
H = 1250 mm recommended for easy access to the controller
h = 350 mm min for installing stop valves and connections



Models 20 to 24 kW

Models 20 and 24 kW

2. How much space do I need for my outdoor unit?



3. Which hydraulic and cooling connections are required?

Cooling properties	Unit	20kW	24kW
Diameter of cooling pipes (Liq - Gas)	inches	3/8" - 1"	1/2" - 1"
Hydraulic features			
Hydraulic connections for heating (male/male valves supplied)	inches	1" - 1/4	

4. Which electrical connection should I provide?

Please note that these sections and protections are given for intensities with auxiliary heating resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog.
Data provided as a guide, please refer to the applicable electrical standard.

Power supply					Bus	Power supply					Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	LiCy shielded cable 2 x 0.75 mm²	Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	LiCy shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m			Max A	A/curve	mm²	m	
RAS-8WHNPE	-/24	-/ 25- D	- / 5G6	-/26		RWM-8.0N3E	-/13.7	- / 20 - C	- / 5G4	-/20	
RAS-10WHNPE	-/24	-/ 25- D	- / 5G6	-/26		RWM-10.0N3E	-/13.7	- / 20 - C	- / 5G4	-/20	

Hydraulic setups Yutaki S 2.0

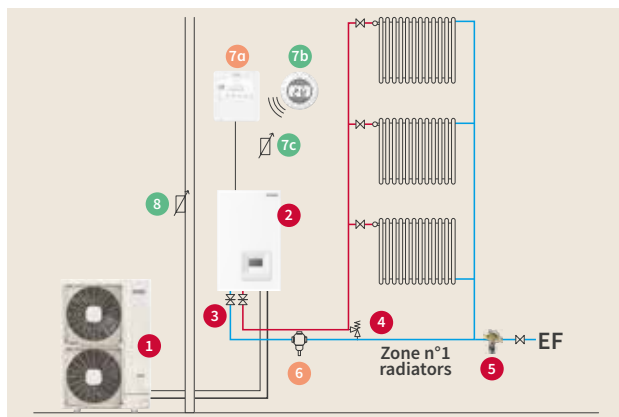
Your diagrams in a few clicks at
yutaki-applications.com



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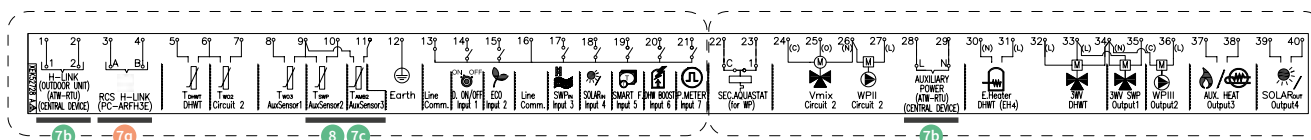
SPLIT AIR-TO-WATER
HEAT PUMPS

1 control zone - direct radiators

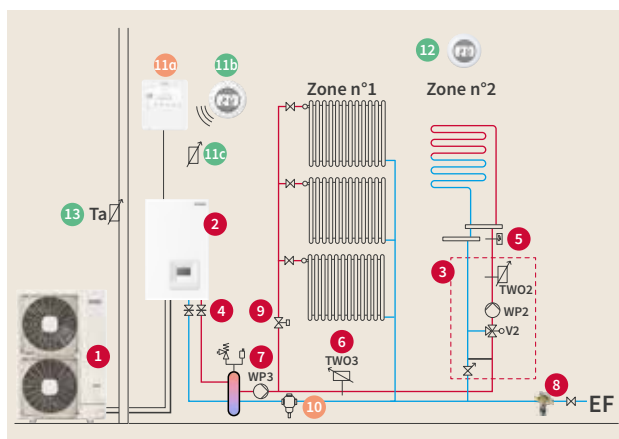


1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank included)	Mandatory	Hitachi supplied
3	Isolating valve	Mandatory	Hitachi supplied (with module)
4	Differential discharge valve	Mandatory	Hitachi option (ATW-DPOV-01)
5	Disconnector	Mandatory	Not supplied
6	Mud pot	Recommended (Required if floor)	Not supplied
7a	Wired compensation thermostat zone 1: remote PC-ARFH2E	Recommended	Hitachi supplied (with module)
7b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
7c	Wired ambiance sensor	Option	Hitachi option (ATW-ITS-01)
8	Outdoor sensor	Option	Hitachi option (ATW-2OS-02)

- ! Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- ! Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- ! Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- ! Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- ! Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).

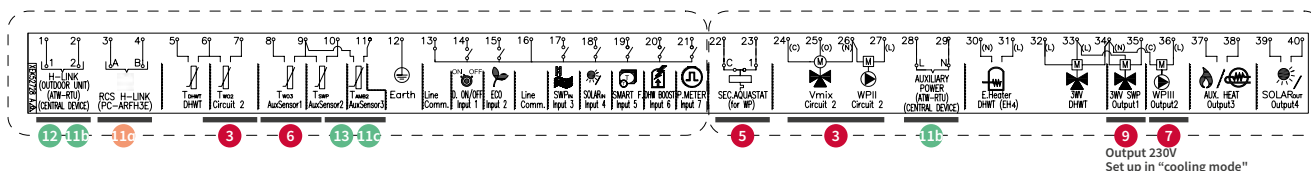


2 control zones - disconnection with direct radiators, mixed flooring (standard mode - reversible)



1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Hitachi supplied (with module)
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02Y)
7	Secondary circulator	Mandatory	Not supplied
8	Disconnector	Mandatory	Not supplied
9	Motorized valve	Mandatory (if refresh)	Not supplied
10	Mud pot	Recommended	Not supplied
11a	Wired compensation thermostat zone 1: remote PC-ARFH2E	Recommended	Hitachi supplied (with module)
11b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
11c	Wired ambiance sensor	Option	Hitachi option (ATW-ITS-01)
12	Compensation thermostat zone 2	Option	Hitachi option (ATW-RTU-06 if RTU-07 zone 1)
13	Outdoor sensor	Option	Hitachi option (ATW-2OS-02)

- ! Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- ! Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- ! Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- ! Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- ! Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



Output 230V
Set up in "cooling mode"

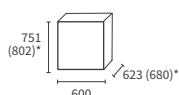
Yutaki S80

Air/Water Split Heat Pump, 80°C, without DHW
11 to 16kW (R410A and R134A)



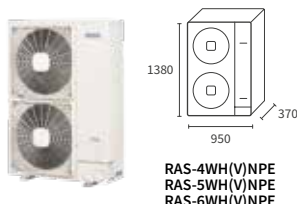
Indoor units

^{*}With connections.



RWH-4.0VNFE
RWH-5.0VNFE
RWH-6.0VNFE

Outdoor units



RAS-4WH(V)NPE
RAS-5WH(V)NPE
RAS-6WH(V)NPE

Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH1E
Not included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



CSNET Home connectivity
gateway
Ref.: ATW-IOT-01

Hydraulic accessories



2-zones kit with 3-way
valve and wall-mounted
circulator
Ref.: ATW-2TK-07



3-way directional inversion
valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y

+ PERFORMANCE RATING

- The Yutaki S80 range offers exceptional performance for demanding renovation projects.
- Its Constant Power technology enables it to maintain its power all year round down to -15°C outside in 100% thermodynamic mode (up to 65°C water temperature).
- Its Constant Water technology allows it to reach and maintain a constant water outlet temperature from 80°C to -20°C, using 100% thermodynamics.

+ PRACTICAL FOR PROFESSIONALS

- **Fully-inclusive management:** All standard options (2 zones, boiler backup, remote DHW management, smart grid ready, solar thermal, fan coil units).
- **CSNET Home PRO:** View the status of your equipment remotely and adjust its settings in real time.

+ EASY TO CONTROL

- **Controller:** High-performance and easy to use for individuals and professionals.

Options



DHW storage tank
Stainless steel tank
Refs.:
200 L: DHWT-200S-3.0H2E
(H x D) 1270 x 595 mm
300 L: DHWT-300S-3.0H2E
(H x D) 1750 x 595 mm



Yutaki cascade control
cabinet (8 max)
Ref.: ATW-YCC-01



Connected heater
Ref.: WEH-6E

R410A + R134A COOLANT

Model	Unit	YUTAKI S80 11kW	YUTAKI S80 14 kW	YUTAKI S80 16kW
Performance, heating				
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	11.0 / 15.2	14.0 / 16.7	16.0 / 17.8
Capacity/max. heating (-7°C outside / 35°C water)	kW	9.7 / 10.6	11.5 / 12.2	12.1 / 13.0
Capacity/max. heating (-7°C outside / 45°C water)	kW	11.0 / 12.5	14.0 / 14.5	16.0 / 16.0
Capacity/max. heating (-7°C outside / 55°C water)	kW	11.0 / 12.5	14.0 / 14.5	16.0 / 16.0
Capacity Heating (7°C outside/35°C water)	kW	2.20	2.97	3.50
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	5.00	4.71	4.57
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.75 / 3.63	4.43 / 3.35	3.88 / 3.23
Seasonal energy efficiency heating η_s (35°C) Single/Tri ⁽¹⁾	%	187 / 183	174 / 171	152 / 150
Seasonal energy efficiency heating η_s (55°C) Single/Tri ⁽¹⁾	%	142 / 140	131 / 129	126 / 125
Energy rating 35°C / 55°C	-	A+++/A++		A++/A++
Temperature range of water outlet (heating mode)	°C	20/80°C		
Max. temperature at the water outlet in thermodynamic-only mode	°C	80°C up to -20°C outside		

Hydraulic modules	Unit	RWH-4.0(V)NFE	RWH-5.0(V)NFE	RWH-6.0(V)NFE
Net weight	kg	135 / 137	139 / 146	139 / 146
Dimensions (HxWxD)	mm	751 x 600 x 623		
Sound power	dB(A)	57	57	58
Remote control	-	Not included		

Hydraulic features

Expansion vessel	L	12		
Water flow (min./rated/max)	m³/h	1.00/1/2.80	1.10/1.2/3.20	1.20/1.38/3.20
Hydraulic connections for heating (male/male valves supplied)	inches	1" 1/4		
Min. system water capacity	L	40	50	50

Cooling properties

Fluid	-	R134A		
Initial refrigerant load	kg	1.9 kg for every 15m		
Compressor	-	SCROLL		

Electrical features

Power supply	-	230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Max. current	A	24	28
	Cable section (mm²)/max. length (m) ⁽²⁾	-	3 x 6	
3-PHASE 400V	Max. current	A	10	10
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 2.5	

Premium outdoor units	Unit	RAS-4WH(V)NPE	RAS-5WH(V)NPE	RAS-6WH(V)NPE
Pressure level at 5m / Acoustic pressure in Heating mode ⁽³⁾	dB(A)	36/58	36/59	37/60
Air flow rate	m³/h	4800	5400	6000
Dimensions (HxWxD)	mm	1380 x 950 x 370		
Net weight	kg	103		
Operating ranges for Heating/DHW	°C	-25/+25 // -25/+35		

Cooling properties

Not subject to the DESP

Diameter of refrigeration pipes (Liq - Gas)	inches	3/8" 5/8"	
Min./max. length/max. drop	m	5 - 75/20	
Initial prefilled refrigerant/Additional load	kg/g/m	3.3 for 15m/60	3.4 for 15m/60
Refrigerant	-	R410A	
Compressor	-	SCROLL	

Electrical features

Power supply	-	230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Max. current	A	30.5	
	Cable section (mm²)/max. length (m) ⁽²⁾	-	3 x 6/30	
3-PHASE 400V	Max. current	A	14	16
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 2.5/16	5 x 2.5/16
Indoor/Outdoor connection (protected)	mm²	2 x 0.75		

Retail price per unit excluding taxes

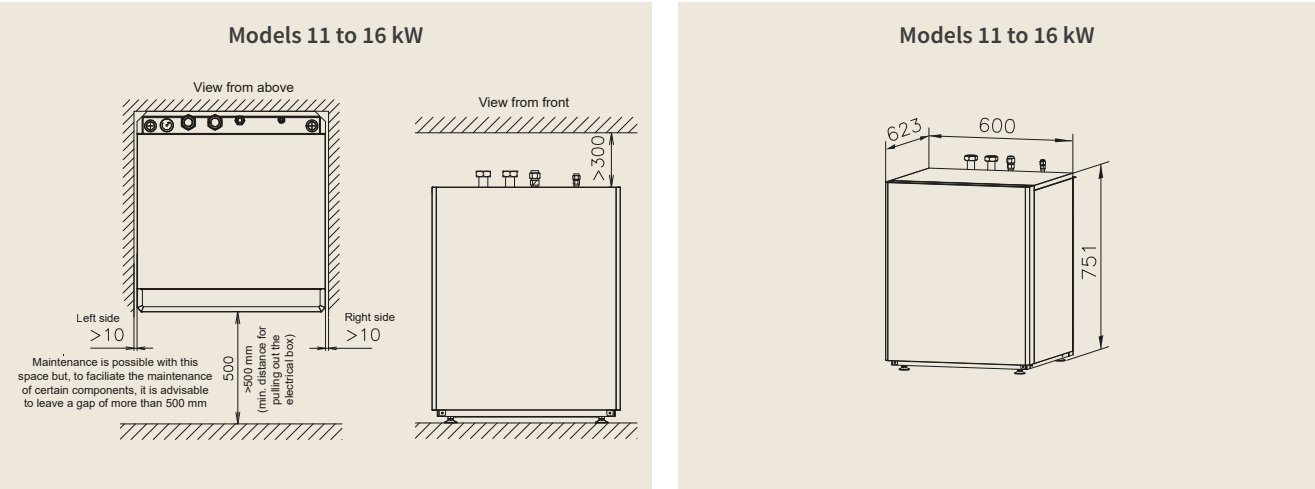
Hydraulic modules (Remote control not included) Single-phase	RWH-4.0VNFE	RWH-5.0VNFE	RWH-6.0VNFE
Hydraulic modules (Remote control NOT included) Three-phase	RWH-4.0NFE	RWH-5.0NFE	RWH-6.0NFE
Premium outdoor units Single-phase units	RAS-4WHVNPE	RAS-5WHVNPE	RAS-6WHVNPE
Premium outdoor units Three-phase	RAS-4WHNPE	RAS-5WHNPE	RAS-6WHNPE
Remote control (Mandatory)	PC-ARFH1E		
Price for the whole set Single-phase			
Hydraulic module + outdoor unit + remote control			
Price for the whole set Three-phase			
Hydraulic module + outdoor unit + remote control			

⁽¹⁾ Non-regulated seasonal energy efficiency, Keymark-certified. ⁽²⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards. (V) = single. ⁽³⁾ pressure to 5m in night mode / in accordance with EN12102-1

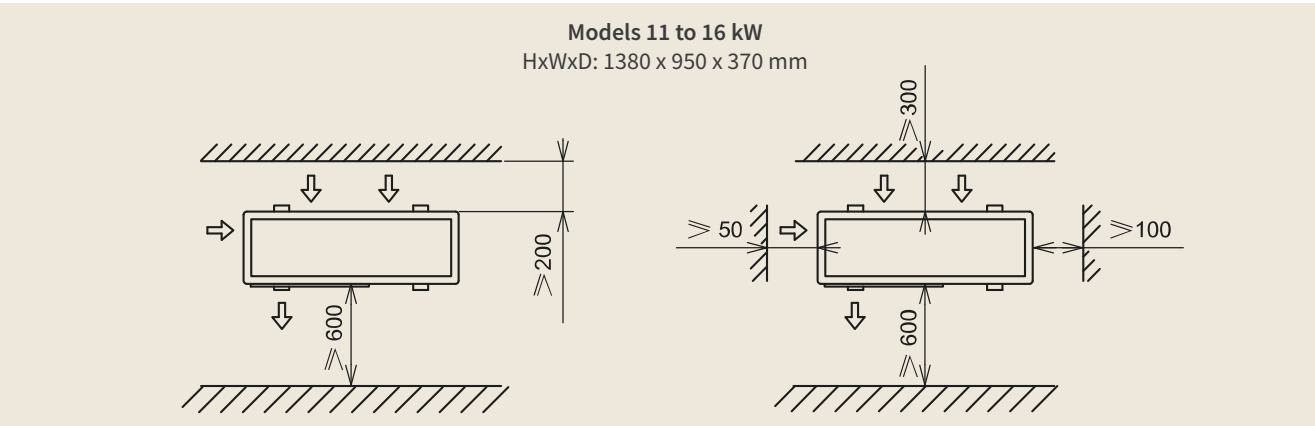
Prepare your construction site

Yutaki S80

1. How much space do I need for my hydraulic module?



2. How much space do I need for my outdoor unit?



3. Which hydraulic and cooling connections are required?

Hydraulic features	Unit	11 to 16 KW
Hydraulic connections for heating (male/male valves supplied)	inches	1" 1/4
Cooling properties		
Diameter of cooling pipes (Liq - Gas)	inches	3/8" 5/8"

4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

Power supply					Bus	Power supply					Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lilyc shielded cable 2 x 0.75 mm²	Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lilyc shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m			Max A	A/curve	mm²	m	
RAS-4WHVNPE / WHNPE	30 / 14	32 / 16 - D	3G6 / 5G2,5	30 / 16		RWH-4.0VNFE/NFE	24 / 10	32 / 16 - C	3G6/5G2.5	28 / 20	
RAS-5WHVNPE / WHNPE	30 / 14	32 / 16 - D	3G6 / 5G2,5	30 / 16		RWH-5.0VNFE/NFE	28 / 10	32 / 16 - C	3G6/5G2.5	28 / 20	
RAS-6WHVNPE / WHNPE	30 / 16	32 / 20 - D	3G6/5G4	30 / 16		RWH-6.0VNFE/NFE	31 / 10	32 / 16 - C	3G6/5G2.5	28 / 20	

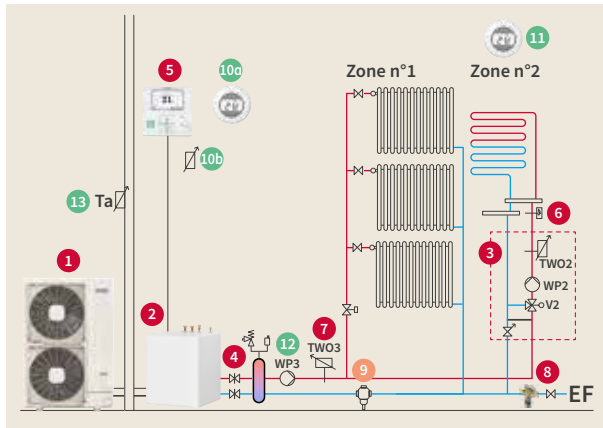
Hydraulic setups

Yutaki S 80

Your diagrams in a few clicks at
yutaki-applications.com



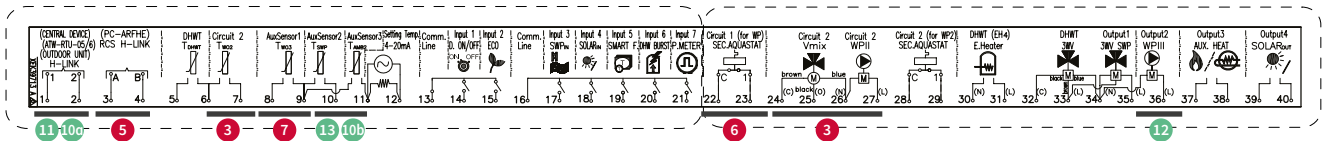
2 control zones:
Disconnection with direct radiators, mixed flooring
(standard mode - reversible)



1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Hitachi supplied (with module)
5	Wired compensation thermostat zone 1: remote PC-ARFH1E	Mandatory	Hitachi option PC-ARFH1E
6	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
7	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02Y)
8	Disconnect	Mandatory	Not supplied
9	Mud pot	Recommended	Not supplied
10a	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
10b	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
11	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1
12	Secondary circulator	Option	Not supplied
13	Outdoor sensor	Option	Hitachi option (ATW-ZOS-02)



- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



Single-phase terminal block; for three-phase, see the technical manual.

Yutaki S80 Combi

Air/Water Split refrigeration heat pump, 80°C, with integrated DHW
11 to 16kW (R410A and R134A)



+ PERFORMANCE RATING

- The Yutaki S80 range offers exceptional performance for demanding renovation projects.
- Its Constant Power technology enables it to maintain its power all year round down to -15°C outside in 100% thermodynamic mode (up to 65°C water temperature).
- Its Constant Water technology enables it to reach and maintain a constant water outlet temperature from 80°C to -20°C, using 100% thermodynamics.

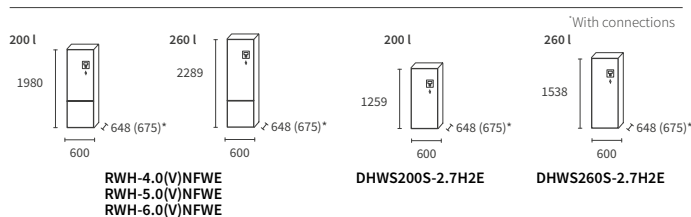
+ PRACTICAL FOR PROFESSIONALS

- **Fully-inclusive management:** All standard options (2 zones, boiler backup, smart grid ready, solar thermal, fan coil units).
- **Flexibility:** The DHW tank can be installed next to the module for spaces with low ceiling heights.
- **CSNET Home PRO:** View the status of your equipment remotely and adjust its settings in real time.

+ EASY TO CONTROL

- **Controller:** High-performance and easy to use for individuals and professionals.

Indoor units



Outdoor units



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH1E
Included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Front panel
Use if moving the remote
control in the environment.
Ref.: ATW-FCP-01



CSNET Home connectivity
gateway
Ref.: ATW-IOT-01

Hydraulic accessories



2-zones kit with 3-way
valve and wall-mounted
circulator
Ref.: ATW-2TK-07



DHW hoses
Ref.: ATW-FWP-02



Universal sensor
Ref.: ATW-WTS-02Y

Options



Control cabinet cascade
Yutaki
Management of a cascade of
up to 8 Yutaki pumps from
the same range and with the
same power (single-phase or
three-phase).
Ref.: ATW-YCC-01



Connected heater
Ref.: WEH-6E

Yutaki S80 Combi

		R410A + R134A COOLANT		
Model	Unit	YUTAKI S80 COMBI 11kW	YUTAKI S80 COMBI 14 kW	YUTAKI S80 COMBI 16kW
Performance, heating				
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	11.0 / 15.2	14.0 / 16.7	16.0 / 17.8
Capacity/max. heating (-7°C outside / 35°C water)	kW	9.7 / 10.6	11.5 / 12.2	12.1 / 13.0
Capacity/max. heating (-7°C outside / 55°C water)	kW	11.0 / 12.5	14.0 / 14.5	16.0 / 16.0
Capacity Heating (7°C outside/35°C water)	kW	2.20	2.97	3.50
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	5.00	4.71	4.57
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.75 / 3.63	4.43 / 3.35	3.88 / 3.23
Seasonal energy efficiency heating η_s (35°C) Single/Tri ⁽¹⁾	%	187 / 183	174 / 171	152 / 150
Seasonal energy efficiency heating η_s (55°C) Single/Tri ⁽¹⁾	%	142 / 140	131 / 129	126 / 125
Energy rating 35°C / 55°C	-	A+++/A++		A++/A++
Temperature range of water outlet (heating mode)	°C	20/80°C		
Max. temperature at the water outlet in thermodynamic-only mode	°C	80°C up to -20°C outside		

DHW performance

Seasonal energy efficiency nwh (200L; L cycle/260L; XL cycle)	%	130 / 134		
DHW energy rating	-	A+		
Temperature range of water outlet (DHW mode)	°C	30/75°C		

Hydraulic modules + DHW tank	Unit	RWH-4.0(V)NFWE + DHWS(200/260) S-2.7H2E	RWH-5.0(V)NFWE + DHWS(200/260) S-2.7H2E	RWH-6.0(V)NFWE + DHWS(200/260) S-2.7H2E
Net weight of the Single/Three-Phase hydraulic module	kg	135 / 137	139 / 146	139 / 146
Net weight of the DHW tank (200L/260L)	kg	62 / 81		
Dimensions (HxWxD) with 200L /260L integrated DHW tank	mm	1980 x 600 x 648/2289 x 600 x 648		
Sound power	dB(A)	57	58	
Volume of DHW tank/Material of DHW tank	L	200 or 260 L/stainless steel		
Remote control	-	Included		

Hydraulic features

Expansion vessel	L	12		
Water flow (min./rated/max)	m³/h	1/1/2.50	1.10/1.20/2.70	1.20/1.38/2.70
Hydraulic connections for heating (male/male valves supplied)	inches	1"1/4 female		
Hydraulic connections for DHW	inches	3/4" male		
Min. system water capacity	L	40	50	50

Cooling properties

Fluid	-	R134A		
Initial refrigerant load	kg	1.9 kg for every 15m		
Compressor	-	SCROLL		

Electrical features

Power supply	-	230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Max. current	A	24	28
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-	3 x 6/30
3-PHASE 400V	Max. current	A	14	16
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 2.5/16	5 x 2.5/16

Premium outdoor units	Unit	RAS-4WH(V)NPE	RAS-5WH(V)NPE	RAS-6WH(V)NPE
Pressure level at 5m / Acoustic pressure in Heating mode ⁽³⁾	dB(A)	36/58	36/59	37/60
Air flow rate	m³/h	4800	5400	6000
Dimensions (HxWxD)	mm	1380 x 950 x 370		
Net weight	kg	103		
Operating ranges for Heating/DHW	°C	-25~-+25 // -25~-+35		

Cooling properties

Not subject to the DESP				
Diameter of refrigeration pipes (Liq - Gas)	inches	3/8" 5/8"		
Min./max. length/max. drop	m	5 - 75/20		
Initial prefilled refrigerant/Additional load	kg/g/m	3.3 for 15m/60	3.4 for 15m/60	
Refrigerant	-	R410A		
Compressor	-	SCROLL		

Electrical features

Power supply	-	230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Max. current	A	30.5	
	Cable section (mm²)/max. length (m) ⁽²⁾	-	3 x 6/30	
3-PHASE 400V	Max. current	A	14	16
	Cable section (mm²)/max. length (m) ⁽²⁾	-	5 x 2.5/16	5 x 2.5/16
Indoor/Outdoor connection (protected)	mm²	2 x 0.75		

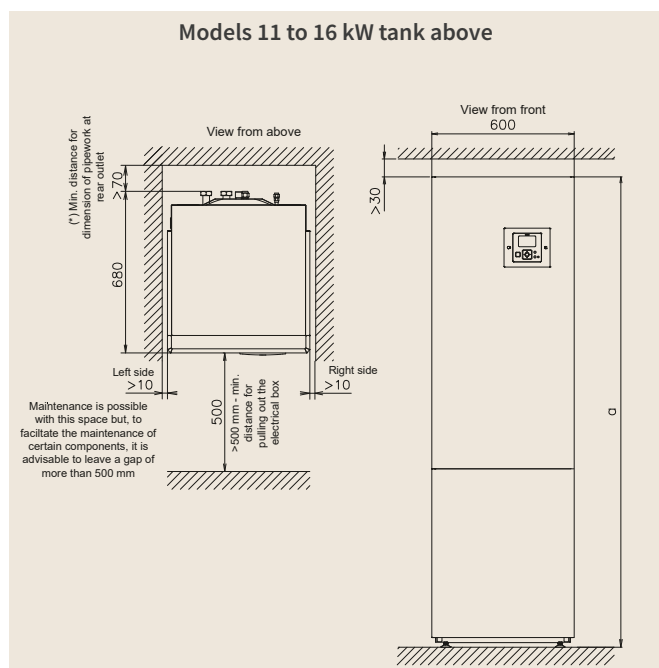
Retail price per unit excluding taxes

Hydraulic modules (Remote control included) Single-phase	RWH-4.0VNFWE	RWH-5.0VNFWE	RWH-6.0VNFWE
Hydraulic modules (Remote control included) Three-phase	RWH-4.0NFWE	RWH-5.0NFWE	RWH-6.0NFWE
DHW tank (200/260L)	DHWS(200/260)S-2.7H2E	DHWS(200/260)S-2.7H2E	DHWS(200/260)S-2.7H2E
Premium outdoor units Single-phase units	RAS-4WHVNPE	RAS-5WHVNPE	RAS-6WHVNPE
Premium outdoor units Three-phase	RAS-4WHNPE	RAS-5WHNPE	RAS-6WHNPE
Price for the whole set Single-phase			
Hydraulic module + DHW tank (200/260L) + outdoor unit			
Price for the whole set Three-phase			
Hydraulic module + DHW tank (200/260L) + outdoor unit			

⁽¹⁾ Non-regulated seasonal energy efficiency, Keymark-certified. ⁽²⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards. (V) = single. ⁽³⁾ pressure to 5 m in night mode / in acc. with EN12102-1.

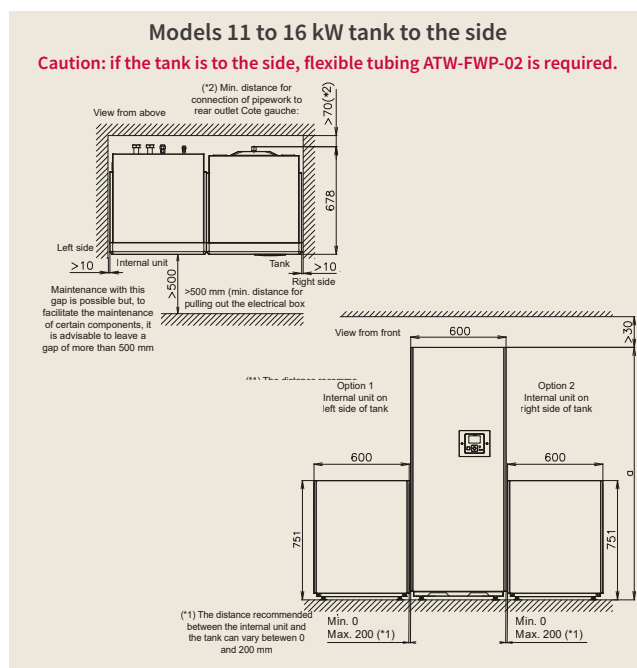
Prepare your construction site Yutaki S80 Combi

1. How much space do I need for my hydraulic module?



Dimensions depending on the unit (mm) - tank above

Unit	Dimensions "a"
RWH + DHWS200S-2.7H2E(-W)	1960
RWH + DHWS260S-2.7H2E(-W)	2289

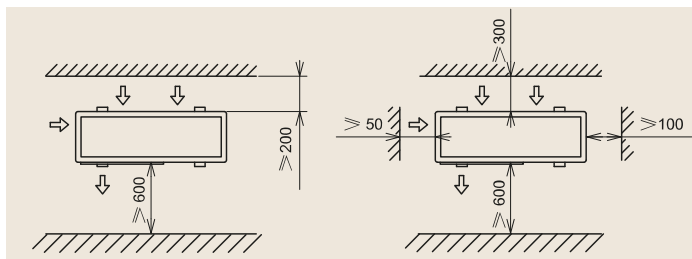


Dimensions depending on the unit (mm) - tank to the side

Unit	Dimensions "a"
RWH + DHWS200S-2.7H2E(-W)	1282
RWH + DHWS260S-2.7H2E(-W)	1591

2. How much space do I need for my outdoor unit?

Models 11 to 16 kW
HxWxD: 1380 x 950 x 370 mm



3. Which hydraulic and cooling connections are required?

Hydraulic features	Unit	11 to 16 KW
Hydraulic connections Heating (male/male valves supplied)	inches	1"1/4 female
Hydraulic connections for DHW	inches	3/4" male
Cooling properties		
Diameter of cooling pipes (Liq - Gas)	inches	3/8" 5/8"

4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

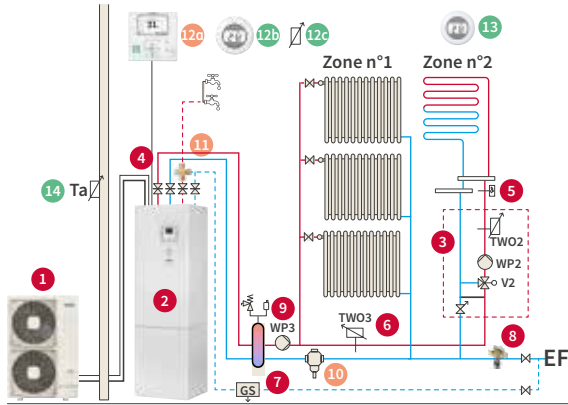
Power supply					Bus Lilyc shielded cable 2 x 0.75 mm²	Power supply					Bus Lilyc shielded cable 2 x 0.75 mm²
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V		Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	
	Max A	A/curve	mm²	m			Max A	A/curve	mm²	m	
RAS-4WHVNPE / WHNPE	30 / 14	32 / 16 - D	3G6 / 5G2,5	30 / 16		RWH-4.0VNFWE / NFWWE + DHWS(200/260)S-2.7H2E	24 / 10	32 / 16 - C	3G6 / 5G2,5	28 / 20	
RAS-5WHVNPE / WHNPE	30 / 14	32 / 16 - D	3G6 / 5G2,5	30 / 16		RWH-5.0VNFWE / NFWWE + DHWS(200/260)S-2.7H2E	28 / 10	32 / 16 - C	3G6 / 5G2,5	28 / 20	
RAS-6WHVNPE / WHNPE	30 / 16	32 / 20 - D	3G6/5G4	30 / 16		RWH-6.0VNFWE / NFWWE + DHWS(200/260)S-2.7H2E	31 / 10	32 / 16 - C	3G6 / 5G2,5	28 / 20	

Hydraulic setups Yutaki S 80 Combi

Your diagrams in a few clicks at
yutaki-applications.com



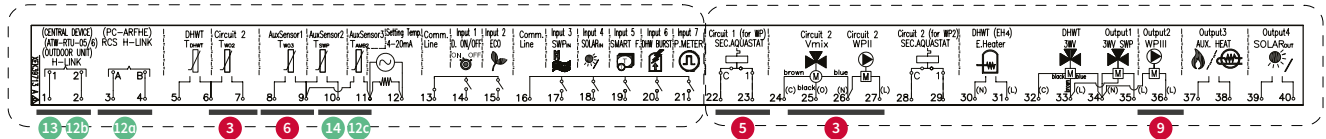
2 control zones: Disconnection of radiator and mixed flooring (standard mode)

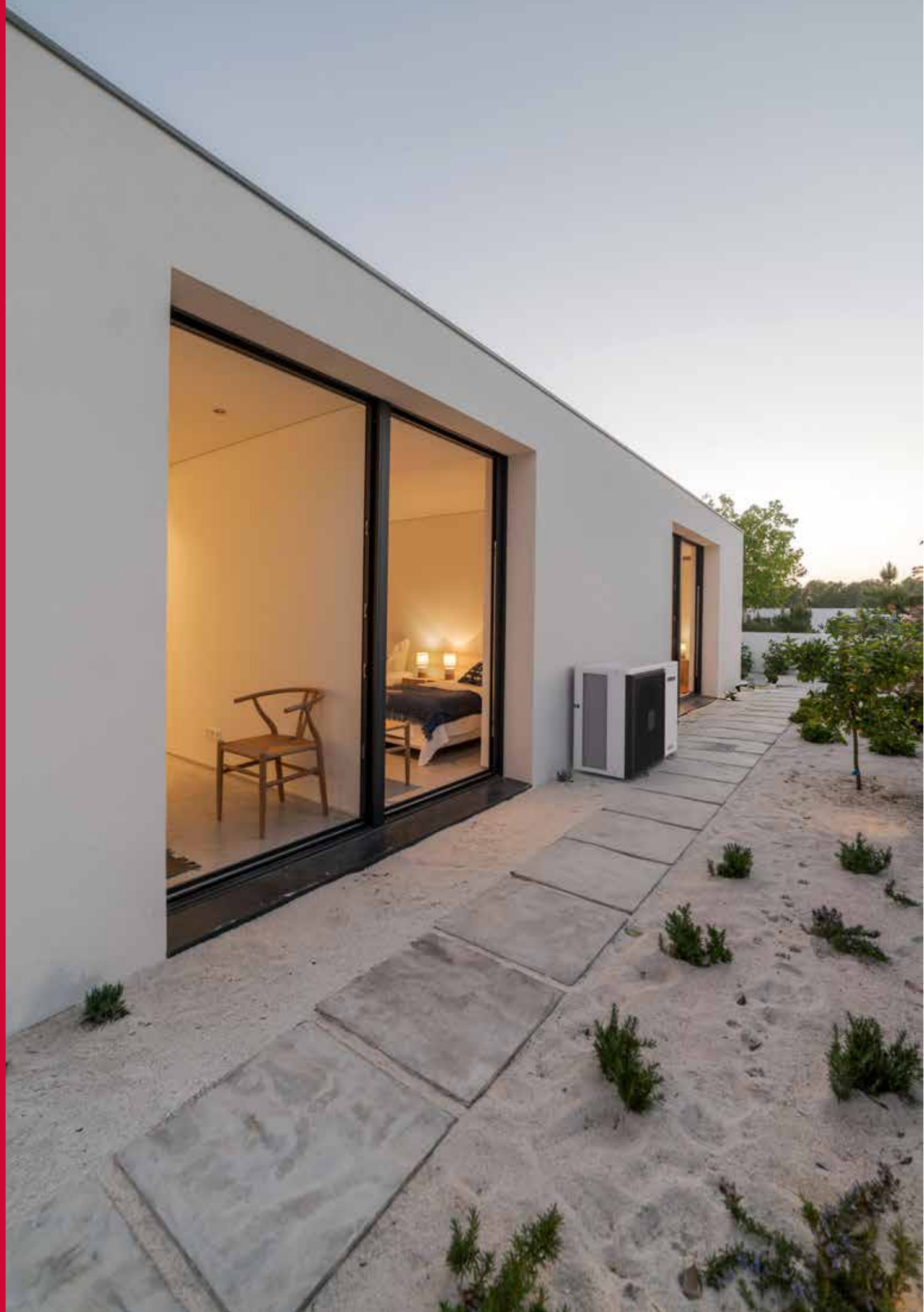


1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve heating	Mandatory	Hitachi supplied (with module)
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02V)
7	DNW safety unit	Mandatory	Not supplied
8	Disconnecter	Mandatory	Not supplied
9	Secondary circulator	Mandatory	Not supplied
10	Mud pot	Recommended	Not supplied
11	Thermostatic mixer	Recommended	Not supplied
12a	Wired compensation thermostat zone 1: remote PC-ARFH1E	Recommended	Hitachi supplied (with module)
12b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
12c	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
13	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1
14	Outdoor sensor	Option	Hitachi option (ATW-ZOS-02)

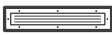
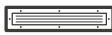
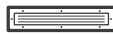


- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagrams provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).





Hydrosplit & Monobloc Air-to-Water Heat Pumps

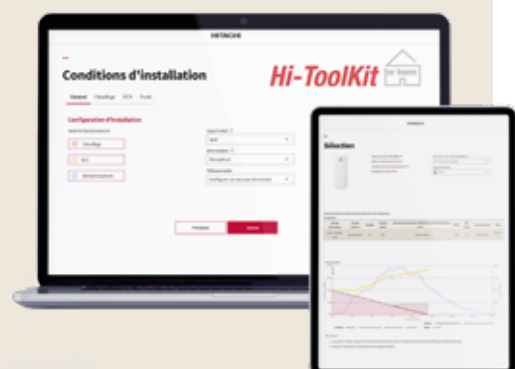
		NEW airH2O 800 H						NEW airH2O 800 H						NEW airH2O 800 M						Yutaki M					
																									
Services	Heating																								
	Cooling																								
	DHW	-												-						-					
Capacities (kW)/ Fluid	R32	-						-						-						4 8 11 12 13 16					
	R290	4	6	8	10	12	14	4	6	8	10	12	14	4	6	8	10	12	14	-					
Type		Hydrosplit						Hydrosplit						Single bloc						Single bloc					
Connections		Hydraulics						Hydraulics						No connection						No connection					
Max water cycle		75°C						75°C						75°C						60° C					
Power maintenance without electrical backup		Yes						Yes						Yes						Yes, from model 11kW					
Applications		Renovation						Renovation						New Renovation						New Renovation					
Number of manageable circuits		Up to 2						Up to 2 (2 nd zone kit integrable)						Up to 2						Up to 2					
Disconnection and integrated secondary pump		Yes						Yes						No						No					
Compatible transmitters	Ductable water units																								
	Radiators	 Medium and low temperatures						 Medium and low temperatures						 Medium and low temperatures						 Medium and low temperatures					
	Underfloor heating																								
	Convactor fans																								
Connectivity standard on the airH2O 800 series (optional on other ranges)								CSNET Home application Stay connected and control your air/ water heat pump remotely via an app created just for you.												CSNET Home PRO application The remote maintenance solution.					

Find the right heat pump for you with HiTool kit for Home

- 1 Enter your project details into the software and we will find the most suitable model for you,
- 2 View the projected energy performances and compare the potential savings compared with other heating solutions,
- 3 Edit a full report with all the details of the project and the device selected.



Website:
hitachi-hitoolkit.com/heating/login



airH₂O 800 The heat pump that simplifies everyday life

A heat pump that rises to the challenge



Practicality

No intervention on the unit during installation or commissioning, thanks to its **Plug&Play concept**.



Elegance

A new design linking **modernity and discretion** with an entirely black grille.



High water temperature

With heating production **up to 75°C**, replace an oil or gas boiler without modifying the transmitters.



Discretion from just 27 dB(A)*

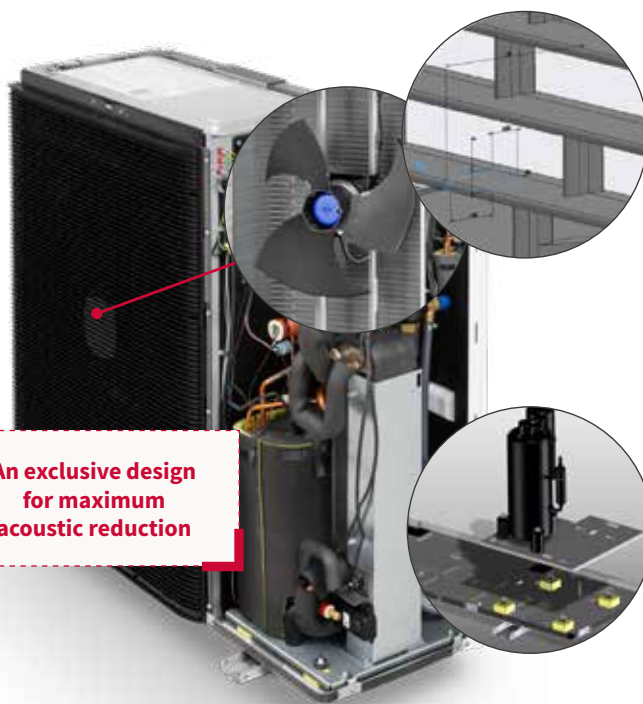
Enhanced sound insulation / Optimized fan and motor design / Anti-vibration compressor plate. For some of the finest **acoustic comfort** on the market.



Performance

Compressor with **CONSTANT POWER & WATER**, technologies are capable of delivering the same power and a higher water flow rate even in extreme temperatures.

An exclusive design for maximum acoustic reduction



*Example for a 10 kW unit, sound pressure at 5 m partial load.

Exclusive technologies for maximum security



Degasser & safety check valve (supplied)

Ensures that R290 is not present in the heating circuit.



Water pressure sensor

Detects any variation in potential pressure in the heat exchanger.



R290 detector connected

Monitors the circuit and reports any anomalies via an alert and notification (CSNet Home app).



Electrical connectors

Facilitates electrical connection without requiring the outdoor unit to be opened.



Electrical enclosure

Guarantees complete absence of leakage.

A 3-in-1 Plug-&-Play solution: One outdoor unit for three solutions

Monobloc concept

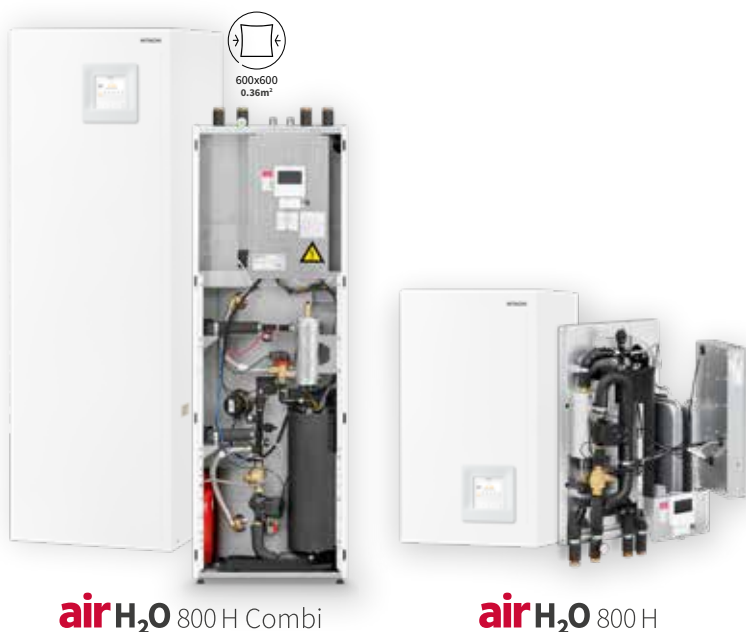


Simplified installation and commissioning, without intervention on the outdoor unit

With the help of the **Control Box** (mandatory), complete all wiring beforehand, then simply connect the power supply and communication to the unit without opening it.

The **NFC setting process** also allows commissioning to be carried out via smartphone only.

Hydrosplit concept



100% hydraulic

100% hydraulic split solution

Connection with outdoor unit using hydraulic connections to ensure **ease of installation and maximum safety**.

Bottle from disconnection and integrated secondary pump come as standard

Disconnection and buffer tank functions to ensure optimal operation of the heat pump and minimize the minimum volume of water required for the installation.

Save space and time with accessories already integrated into the module.

220L DHW tank

Stainless steel tank on H Combi models and ACI anode (optional)

Expansion vessel

Integrated as standard, to maintain constant pressure in the system

Added electrics

Integrated as standard

2-zone kit

Integrates in the module (only H COMBI / optional)

All functions as standard

With its configurable input/output terminal: 2 zones, boiler reading, remote DHW management, solar panels, convector fans...

The airH₂O 800 range will meet all your needs, without additional cards.

Connect easily without opening up the unit



Power and communication connectors provided

A controller designed to assist you



2-in-1 view of controller and thermostat
PC-ARFH3E(B)

A modern controller:

With its curved shape and color LCD screen.

Simple and intuitive navigation:

With exclusive features to meet the needs of professionals and individuals.

Remote ambient controller:

To act as a thermostat.



The ⊕ Hitachi: NFC settings



Configure quickly and easily:

With the help of NFC technology and the CSNet Home smartphone app.

Accelerate your commissioning process:

Prepare your configurations in advance and load them, or replicate configurations on identical installations.

Optional functions:

Simply activate your optional features without opening the unit or even entering the controller menus.



Advantages for maintaining control anywhere, anytime

41

HYDROPLIT AND MONOBLOC
AIR-TO-WATER HEAT PUMPS

CSNET Home/Home PRO connectivity:

Connected Hitachi solutions to **stay in control** wherever you are!

*Included as standard**

CSNET Home

New smartphone app and Web End clients



End user



CSNET Home Pro

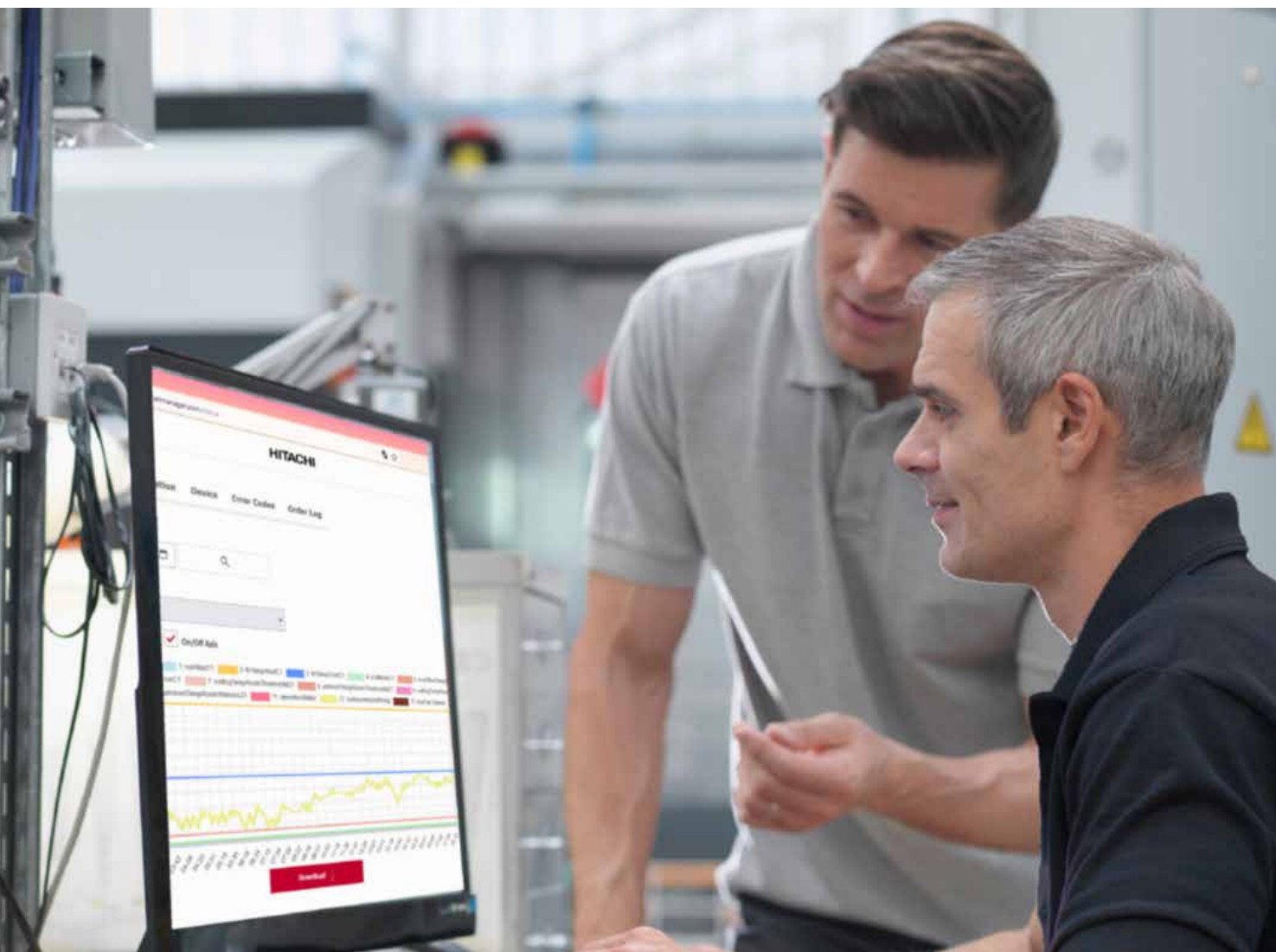
New web application for installers



Maintainer



**Only on modules with a PC-ARFH3E(B) controller*



airH₂O 800 Boosted with R290, an eco-efficient refrigerant.



Why use R290 in this new generation of heat pumps?



**An eco-friendly natural
fluid**

*GWP (Global Warming Potential) = PRP
(Pouvoir de Réchauffement Planétaire).



75°C



**A high-performance
fluid, ideal for
renovation projects**



A sustainable fluid

Fluid not subject to F-GAS.

What are the special features of this fluid?

Under the conditions described below, R290 may burn:



4 essential notions:



To avoid leaks particularly thanks to R290 training and certifications.



To prevent any concentration of fluid by ventilating the workspace.



To remove all fire hazards during storage, transportation, installation, and maintenance, in particular using suitable tools.



Follow the installation and operating instructions., Always comply with the latest regulations and rules in force.

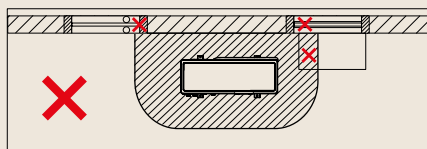
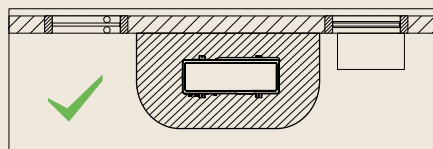
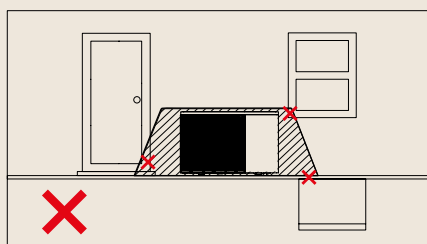
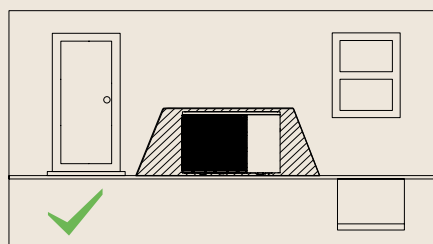
Some basic installation rules

Required skills

Under Regulation 2024/2215, professionals must have **A1 or A2 certifications** to install, commission, maintain, service and decommission the R290 heat pumps:

- ✓ A1: Without load limit
- ✓ A2: Heat pump split with a charge of less than 3 kg, heat pump monobloc (hermetically sealed system) with a load of less than 6 kg.

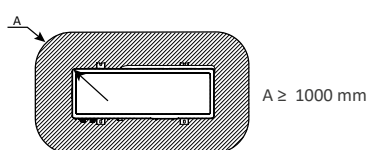
Current certifications (attestations of capacity I and II) remain valid, but professionals must complete a **refresher course** (R290 add-on module) to meet the requirements of A1 and A2 certificates.



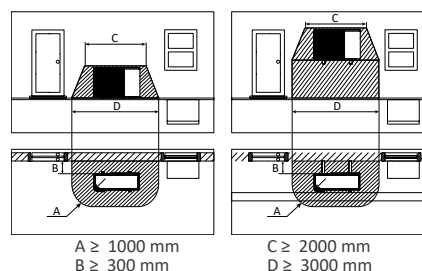
Outdoor units must not be installed in enclosed areas unless the minimum requirements relating to fluid load are met. (extremely restrictive).

The safety zone must not cover the openings.

Open field installation



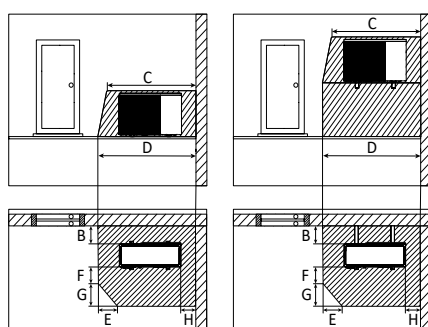
Installation against a wall



A ≥ 1000 mm
B ≥ 300 mm

C ≥ 2000 mm
D ≥ 3000 mm

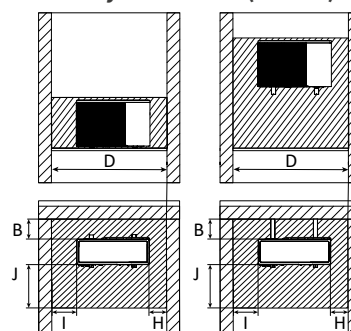
Corner installation (2 walls)



B ≥ 300 mm
C ≥ 2000 mm
D ≥ 2500 mm
E ≥ 1000 mm

F ≥ 500 mm
G ≥ 1800 mm
H ≥ 500 mm

Hallway installation (3 walls)



B ≥ 300 mm
D ≥ 2500 mm
H ≥ 500 mm

I ≥ 500 mm
J ≥ 2300 mm

With Hitachi, 100% safety:

- ✓ A **airH₂O 800** monobloc or hydrosplit solution, **no fluid in the house**.
- ✓ Quality hardware specifically designed for R290 with **exclusive embedded security technologies**.
- ✓ A **100% Plug-&-Play** concept, without the need to open the outdoor unit.

airH₂O 800



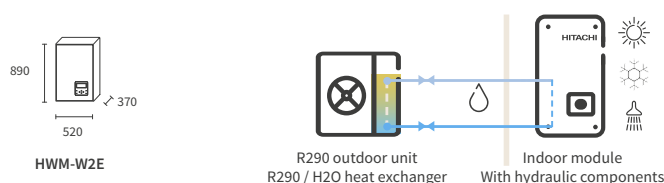
Connected leak detector, supplied as standard.

airH₂O 800 H

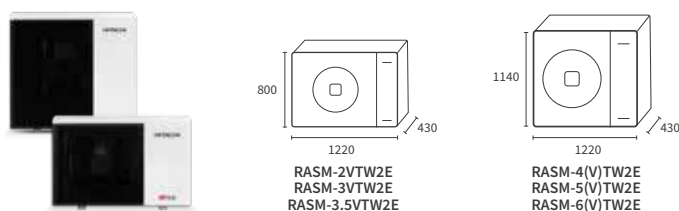
Air/Water Split hydraulic heat pump, 75°C, without DHW
4 to 14 kW (R290)



Indoor units



Outdoor units



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E
Included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Front cover* AirH2O 800 H & H
COMBI
Use if moving the remote control
in the environment.
Ref.: ATW-FCP-03



Black wired remote control
Ref.: PC-ARFH3EB
Option

Hydraulic accessories



2-zone kit with 3-way valve and
wall-mounted circulator
Ref.: ATW-2TK-07



3-way directional
inversion valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y



PERFORMANCE RATING

- The AirH2O 800 range offers exceptional performance for **new or renovation** projects.
- Its **Constant Power** technology enables it to maintain its power rating throughout the year in 100% thermodynamic mode.
- Its **Constant Water** technology enables it to reach and maintain a constant water outlet temperature from **75°C**.



PRACTICAL FOR PROFESSIONALS

- **Fully-inclusive management:** All standard options (2 zones, boiler backup, remote DHW management, smart grid ready, solar thermal, fan coil units).
- **Integrated disconnection:** 15-liter bottle and secondary pump included, saving space and up to 3 hours of labor.
- **100% Plug-&-Play:** No fluid handling and no opening of the outdoor unit for installation or commissioning.
- **CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- **NFC function** Create/copy/paste/duplicate a configuration directly via your smartphone.



EASY TO CONTROL

- **Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- **CSNet Home included as standard:** Control your comfort remotely at no extra cost.

Options



DHW storage tank
Stainless steel tank
200 L:
(H x D) 1270 x 595 mm
Ref.: DHWT-200S-3.0H2E
300 L:
(H x D) 1750 x 595 mm
Ref.: DHWT-300S-3.0H2E



Reversible kit
Equipment required to
operate in refresh
mode.
Ref.: ATW-CKS-04
(AirH2O 800 H)

R290 FLUID

Model	Unit	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW
Performance, heating							
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	2/4/6	2.4/6/8	2.4/8/10	4.5/10/12	4.5/12/14	4.5/14/16
Capacity/max. heating (-7°C outside / 35°C water)	kW	4 / 4.5	6 / 6	8 / 8	10 / 10	12 / 12	13 / 13.5
Capacity/max. heating (-7°C outside / 55°C water)	kW	4 / 4.5	6 / 6	7.5 / 7.5	10 / 10	12 / 12	13 / 13
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	4.7	4.84	4.62	4.53	4.21	4.2
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.5 / 3.25	4.67 / 3.37	4.67 / 3.44	4.53 / 3.65	4.53 / 3.55	4.54 / 3.35
Seasonal heating energy efficiency η_s (35°C) single/Tri ⁽¹⁾	%	177	184		178		179
Seasonal heating energy efficiency η_s (55°C) single/Tri ⁽¹⁾	%	127	132	135	143	139	131
Energy rating 35°C/55°C	-	A+++/A++					
Temperature range of water outlet (heating mode)	°C	20/75°C					
Max. temperature at the water outlet in thermodynamic-only mode	°C	75°C up to -5°C outside					

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	4 / 4.5	6 / 6.5	7 / 7.5	10 / 10	11 / 11	12 / 12
Absorbed capacity cooling (35°C ext/7°C water)	kW				-		
EER (reversible model)	-	2.78	2.91	2.84	3.13	2.94	2.66

Hydraulic modules	HWM-W2E						
Auxiliary electric resistance heating as standard / Three-stage	kW	6 (2 + 2 + 2)					
Net weight	kg	45					
Dimensions (HxWxD)	mm	890 x 520 x 370					
Sound pressure level	dB(A)	30					
Remote control	-	included PC-ARFH3E					

Hydraulic features

Expansion vessel	L	6					
Water flow rate (min/nom/max)	m³/h	0.6/0.7/2	0.6/1/2	0.6/1.4/2	0.6/1.7/3	0.6/2.1/3	0.6/2.4/3
Hydraulic connections for heating	inches	1"					
Bottle volume from disconnection	L	15					
Min. system water capacity	L	13					45

Electrical features

Power supply	-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Intensity max with auxiliary resistance	A	26.7				
	Cable section (mm²) / max length (m) ⁽²⁾	-	3 x 6/30				
3-PHASE 400V compressor	Intensity max with auxiliary resistance	A	9.3				
	Cable section (mm²) / max length (m) ⁽²⁾	-	5 x 2.5/20				

Outdoor units (for Hydrosplit or Monobloc versions)		RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4(V)TW2E	RASM-5(V)TW2E	RASM-6(V)TW2E
Pressure level at 5m / Sound power in hot mode ⁽³⁾	dB(A)	29/55	29/56	29/57	27/53	28/53	
Dimensions (HxWxD)	mm	800 x 1220 x 430			1140 x 1220 x 430		
Net weight	kg	90			130		
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -25~+25 // -25~+43					

Hydraulic features**Subject to the DESP, category II**

Diameter of the hydraulic connections (female / female)		inches	1"	
Refrigerant / Refrigerant charge		- / kg	R290 / 0.9	R290 / 1.2
Compressor		-	ROTARY DC INVERTER	

Electrical features

Electrical features		Electrical features				
Power supply		-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz
SINGLE-PHASE 230V	Max. current	A	14.2	17.7	20.7	29.2
	Cable section (mm ²) / max length (m) ⁽²⁾	-	3 x 2.5/28	3 x 4/24	3 x 6/21	3 x 6/30
3-PHASE 400V	Max. current	A	-			16.7
	Cable section (mm ²) / max length (m) ⁽²⁾	-	-			5 x 4/16
Indoor/Outdoor connection (protected)		mm ²				2 x 0.75

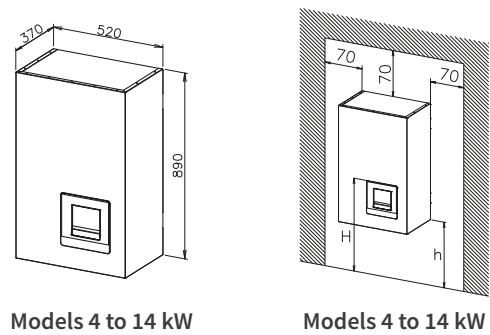
Retail price per unit excluding taxes

Hydraulic modules (Remote control included)	HWM-W2E					
Premium outdoor units Single-phase units	RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4VTW2E	RASM-5VTW2E	RASM-6VTW2E
Premium outdoor units Three-phase	-			RASM-4TW2E	RASM-5TW2E	RASM-6TW2E
Price for the whole set Single-phase Hydraulic module + outdoor unit						
Price for the whole set Three-phase Hydraulic module + outdoor unit	-					
Reversible kit (Optional)	ATW-CKS-04					

⁽¹⁾ = single⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825.⁽²⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards.⁽³⁾ Pressure to 5m in night mode - In accordance with EN12102-1 / ErP

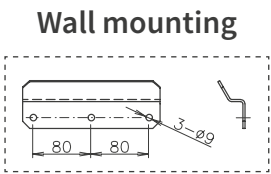
Prepare your construction site airH2O 800 H

1. How much space do I need for my hydraulic module?

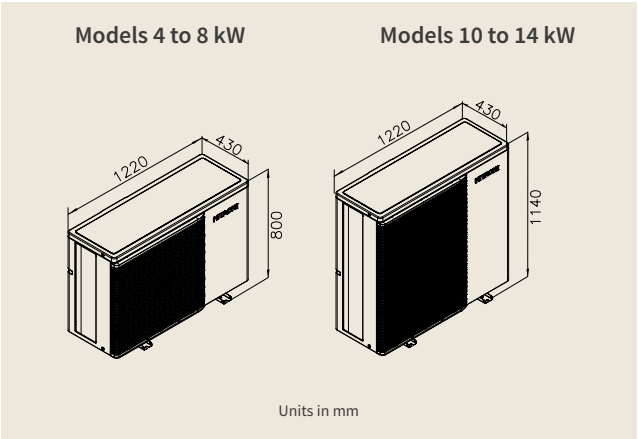
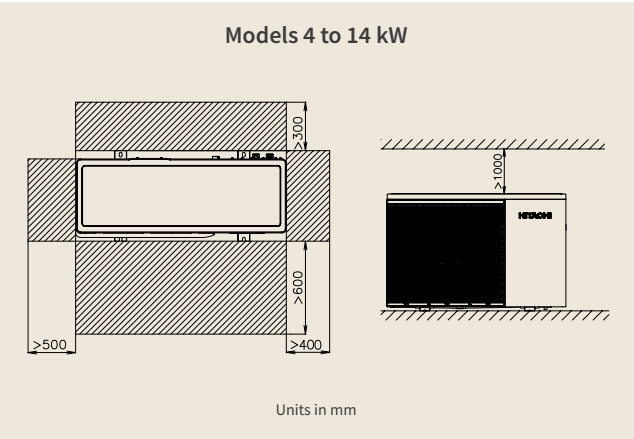


H = 1250 mm recommended for easy access to the controller
h = 350 mm min. for installing shut-off valves and connections

Units in mm



2. How much space do I need for my outdoor unit?



Regarding the installation rules for R290 units, please consult the documentation and comply with all prevailing local regulations.

3. Which hydraulic connections are needed?

Hydraulic features	Unit	11 to 16 KW
Diameter of the hydraulic connections (valves supplied male/male) for same unit and module	inches	G 1" (female)

4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

	Power supply				Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lily shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RASM-2VTW2E	14.2/-	16 / - / D / -	3G2.5 / -	30/-	
RASM-3VTW2E	17.7/-	20 / - / D / -	3G4 / -		
RASM-3.5VTW2E	20.7/-	25 / - / D / -	3G6 / -		
RASM-4VTW2E/TW2E	29.2 / 16.7	32 / 20 / D	3G6/5G4	30 / 16	
RASM-5VTW2E/TW2E					
RASM-6VTW2E/TW2E					
Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	
	Max A	A/curve	mm²	m	
HWM-W2E	26.7 / 9.3	32 / 16 / C	3G6 / 5G2,5	28 / 20	

Hydraulic setups

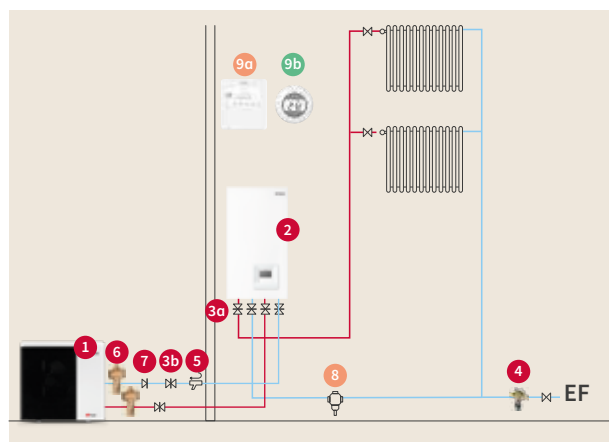
airH2O 800 H

! Provide high-temperature antifreeze valves and filter screens.

Your diagrams in just a few clicks
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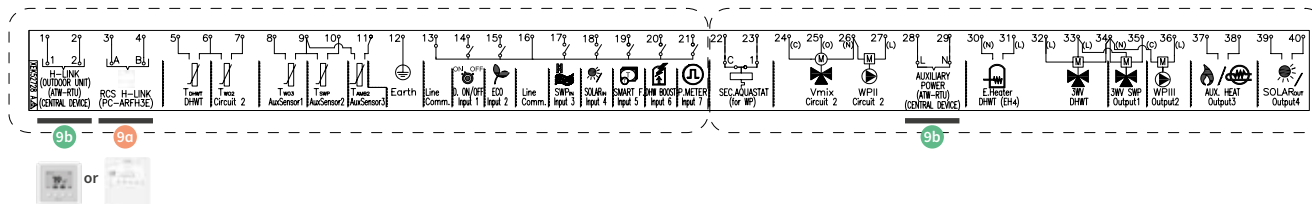
1 control zone - radiators disconnected (included)



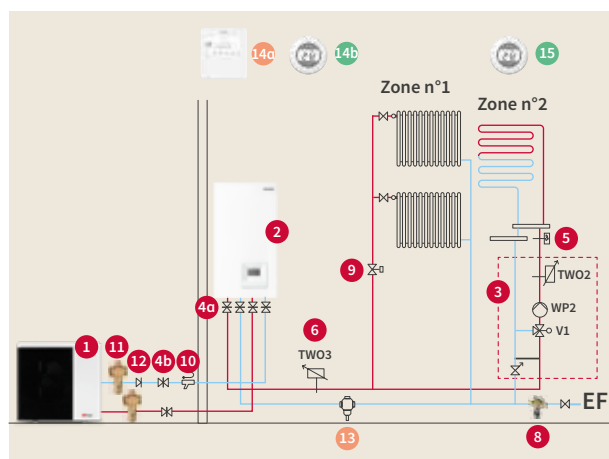
1	Outdoor unit	Mandatory	Hitachi supplied
2	hydraulic module: expansion tank and decoupling bottle included	Mandatory	Hitachi supplied
3a	Isolating valve	Mandatory	Hitachi supplied (with module)
3b	Isolating valve	Mandatory	Not supplied
4	Disconnect	Mandatory	Not supplied
5	Screen filter (0.7 mm mesh diameter) for heat exchanger	Mandatory	Not supplied
6	Anti-freeze valves	Mandatory	Not supplied
7	R290 safety valve	Mandatory	Hitachi supplied
8	Mud pot	Recommended (Required if floor)	Not supplied
9a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
9b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)



- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Also ensure that the included secondary pump is sufficient for the network.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it completely. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



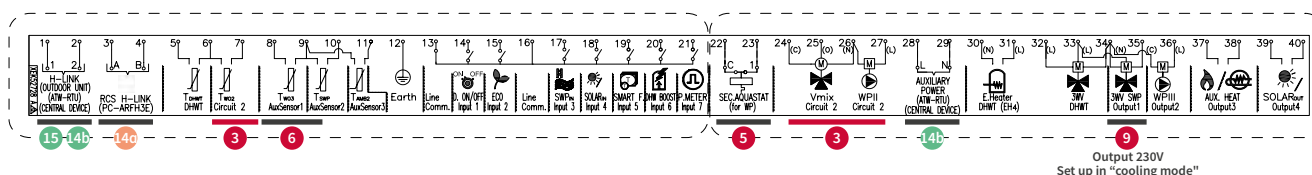
2 control zones - floor and radiators disconnected (included) (standard mode - reversible)



1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4a	Isolating valve	Mandatory	Hitachi supplied (with module)
4b	Isolating valve	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Universal temperature sensor	Mandatory	Hitachi option (ATW-WTS-02Y)
7	Disconnect	Mandatory	Not supplied
8	Motorized valve	Mandatory (if refresh)	Not supplied
9	Screen filter (0.7 mm mesh diameter) for heat exchanger	Mandatory	Not supplied
10	Anti-freeze valves	Mandatory	Not supplied
11	R290 safety valve	Mandatory	Hitachi supplied
12	Mud pot	Recommended	Not supplied
14a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
14b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
15	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1



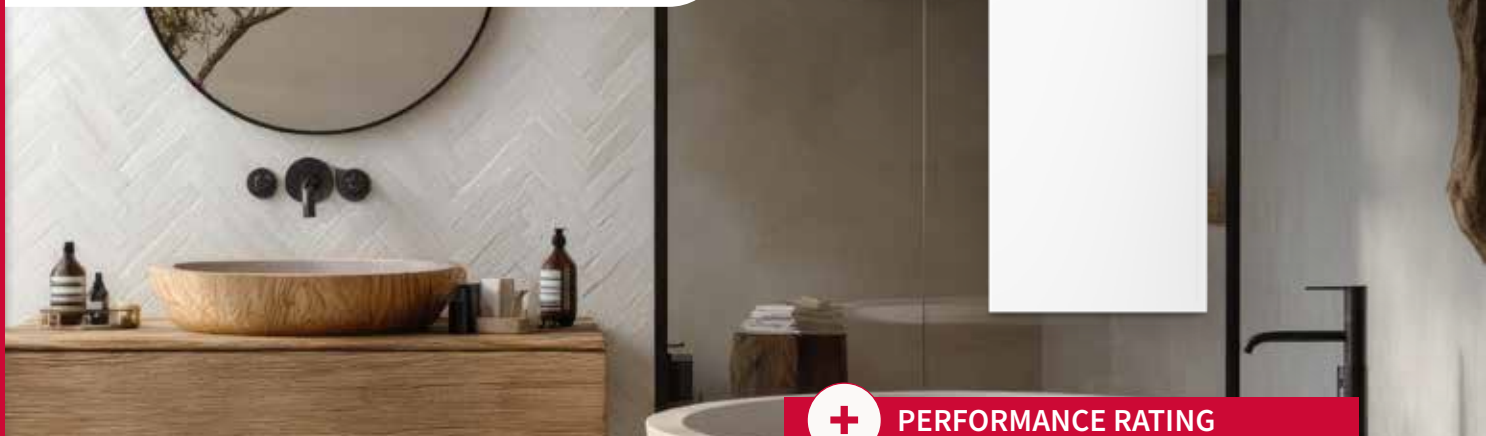
- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Also ensure that the included secondary pump is sufficient for the network.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it completely. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



Output 230V
Set up in "cooling mode"

airH₂O 800 H Combi

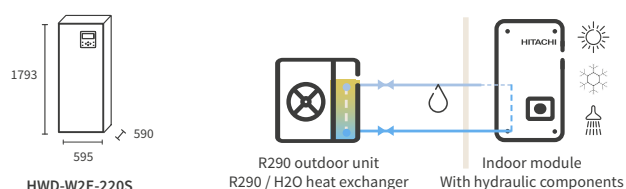
Split hydraulic Air/Water heat pump, 75°C, with integrated DHW
4 to 14 kW (R290)



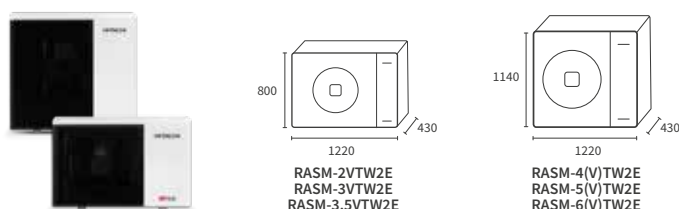
+ PERFORMANCE RATING

- The AirH2O 800 H Combi range offers exceptional performance for **new and renovation** projects and combines DHW with its **integrated 220L stainless steel tank**.
- Its **Constant Power** technology enables it to maintain its power rating throughout the year in 100% thermodynamic mode.
- Its **Constant Water** technology enables it to reach and maintain a constant water outlet temperature of **75°C**.

Indoor units



Outdoor units



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E
Included



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Front cover* AirH2O 800 H & H
COMBI
Use if moving the remote control
in the environment.
Ref.: ATW-FCP-03



Black wired remote control
Ref.: PC-ARFH3EB
Option

Hydraulic accessories



2-zone integrated kit
Essential accessory when two
distinct temperature levels must
be maintained.
Ref.: ATW-2TK-08



Universal sensor
Sanitation, hydraulic decoupling,
Circuit 2, swimming pool, solar (to be
expected if the tank is not a Hitachi
DHW).
Ref.: ATW-WTS-02Y

+ PRACTICAL FOR PROFESSIONALS

- **Fully-inclusive management:** All standard options (2 zones, boiler backup, smart grid ready, solar thermal, fan coil units).
- **Integrated disconnection:** 15-liter bottle and secondary pump included, saving space and up to 3 hours of labor.
- **100% Plug-&-Play:** No fluid handling and no opening of the outdoor unit for installation or commissioning.
- **CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- **NFC function** Create/copy/paste/duplicate a configuration directly via your smartphone.

+ EASY TO CONTROL

- **Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- **CSNet Home included as standard:** Control your comfort remotely at no extra cost.

Options



Reversible kit
AirH2O 800 H COMBI
equipment required to
operate in cooling
mode.
Ref.: ATW-CKSC-02

R290 FLUID

Model	Unit	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW
Performance, heating							
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	2/4/6	2.4/6/8	2.4/8/10	4.5/10/12	4.5/12/14	4.5/14/16
Capacity/max. heating (-7°C outside / 35°C water)	kW	4 / 4.5	6 / 6	8 / 8	10 / 10	12 / 12	13 / 13.5
Capacity/max. heating (-7°C outside / 55°C water)	kW	4 / 4.5	6 / 6	7.5 / 7.5	10 / 10	12 / 12	13 / 13
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	4.7	4.84	4.62	4.53	4.21	4.2
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.5 / 3.25	4.67 / 3.37	4.67 / 3.44	4.53 / 3.65	4.53 / 3.55	4.54 / 3.35
Seasonal heating energy efficiency η_s (35°C) single/Tri ⁽¹⁾	%	177	184		178		179
Seasonal heating energy efficiency η_s (55°C) single/Tri ⁽¹⁾	%	127	132	135	143	139	131
Energy rating 35°C/55°C	-	A+++/A++					
Temperature range of water outlet (heating mode)	°C	20/75°C					
Max. temperature at the water outlet in thermodynamic-only mode	°C	75°C up to -5°C outside					

DHW performance

DHW heat pump (220L) in accordance with EN16147	-	3.19			3		
Seasonal energy efficiency η_{wh} 220L L cycle	%	130			123		
DHW energy rating	-	A+					
Temperature range of water outlet (DHW mode)	°C	30/70°C					
Vmax at 40°C acc to EN16147	L	288					

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	4 / 4.5	6 / 6.5	7 / 7.5	10 / 10	11 / 11	12 / 12
Absorbed capacity cooling (35°C ext/7°C water)	kW				-		
EER (reversible model)	-	2.78	2.91	2.84	3.13	2.94	2.66

Hydraulic modules

		HWD-W2E-220S					
Auxiliary electric resistance heating as standard / Three-stage	kW	6 (2 + 2 + 2)					
DHW auxiliary electric resistance as standard	kW	2.7					
Net weight (220L)	kg	113					
Dimensions (HxWxD)	mm	1793 x 595 x 590					
Sound pressure level	dB(A)	30					
Volume of DHW tank/Material of DHW tank	L	220 L / Stainless steel					
Remote control	-	included PC-ARFH3E					

Hydraulic features

Expansion vessel	L			6			
Water flow rate (min/nom/max)	m³/h	0.6/0.7/2	0.6/1/2	0.6/1.4/2	0.6/1.7/3	0.6/2.1/3	0.6/2.4/3
Hydraulic connections for heating	inches	1"					
Hydraulic connections for DHW	inches	3/4"					
Bottle volume from disconnection	L	15					
Min. system water capacity	L	45					

Electrical features

Power supply	-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Intensity max with auxiliary resistance + resistance tank H COMBI	A	38.7				
	Cable section (mm²) / max length (m) ⁽²⁾	-	3 x 10/30				
3-PHASE 400V compressor	Intensity max with auxiliary resistance + resistance tank H COMBI	A	18				
	Cable section (mm²) / max length (m) ⁽²⁾	-	5 x 4 / 20				

Outdoor units (for Hydrosplit or Monobloc versions)		RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4(V)TW2E	RASM-5(V)TW2E	RASM-6(V)TW2E
Pressure level at 5m / Sound power in hot mode ⁽³⁾	dB(A)	29/55	29/56	29/57	27/53	28/53	
Dimensions (HxWxD)	mm	800 x 1220 x 430			1140 x 1220 x 430		
Net weight	kg	113					
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -25~+25 // -25~+43					

Hydraulic features**Subject to the DESP, category II**

Diameter of the hydraulic connections (female / female)	inches	1"	
Refrigerant / Refrigerant charge	- / kg	R290 / 0.9	R290 / 1.2
Compressor	-	ROTARY DC INVERTER	

Electrical features

Power supply		-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz
SINGLE-PHASE 230V	Max. current	A	14.2	17.7	20.7	29.2
	Cable section (mm²) / max length (m) ⁽²⁾	-	3 x 2.5/28	3 x 4/24	3 x 6/21	3 x 6/30
3-PHASE 400V	Max. current	A	-			16.7
	Cable section (mm²) / max length (m) ⁽²⁾	-	-			5 x 4/16
Indoor/Outdoor connection (protected)		mm²				2 x 0.75

Retail price per unit excluding taxes

HWD-W2E-220S						
Hydraulic modules (Remote control included)						
Premium outdoor units Single-phase units	RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4VTW2E	RASM-5VTW2E	RASM-6VTW2E
Premium outdoor units Three-phase	-			RASM-4TW2E	RASM-5TW2E	RASM-6TW2E
Price for the whole set Single-phase Hydraulic module + outdoor unit						
Price for the whole set Three-phase Hydraulic module + outdoor unit	-					
Reversible kit (Optional)	ATW-CKSC-02					

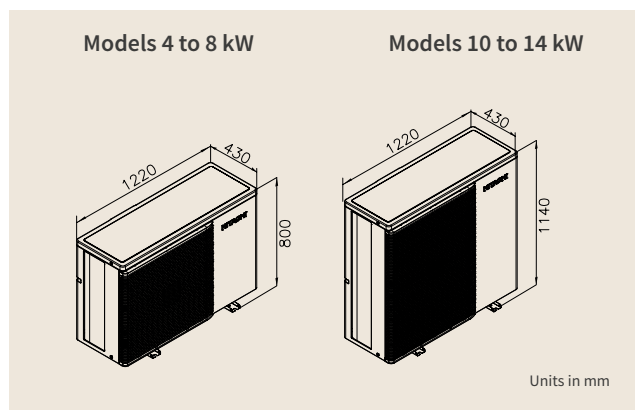
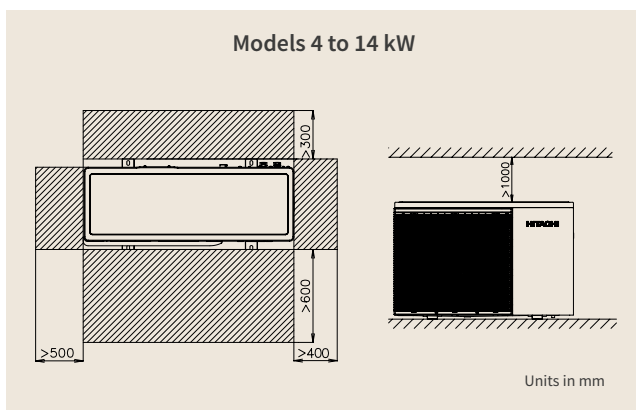
⁽¹⁾ = single⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825.⁽³⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards.⁽⁴⁾ Pressure to 5m in night mode - In accordance with EN12102-1 / ErP

Models 4 to 14 kW

min. 600

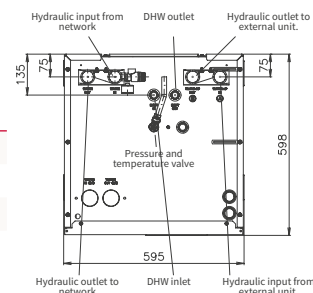
500

View from above
Units in mm



3. Which hydraulic connections are needed?

Hydraulic features	Unit	4 to 14 kW
Diameters of hydraulic connections on the module side (valves supplied male/male)	inches	G 1" (female)
Diameters of hydraulic connections on the external unit side (male/male valves supplied)	inches	1" (female)
Heating diameters (male/male valves supplied)	inches	G 1" (female)
DHW diameters	inches	G 3/4" (male)



4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element and do not wish to use a backup heater, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

Power supply					Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lilyc shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
	RASM-2VTW2E	14.2/-	16 / - / D / -	3G2.5 / -	
RASM-3VTW2E	17.7/-	20 / - / D / -	3G4 / -		
RASM-3.5VTW2E	20.7/-	25 / - / D / -	3G6 / -		
RASM-4VTW2E/TW2E	29.2 / 16.7	32 / 20 / D	3G6/5G4	30 / 16	
RASM-5VTW2E/TW2E					
RASM-6VTW2E/TW2E					
Hydraulic modules	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	
	Max A	A/curve	mm²	m	
HWD-W2E-220S	38.7 / 18	32 / 16 / C	3G6/5G4	28 / 20	

Hydraulic setups

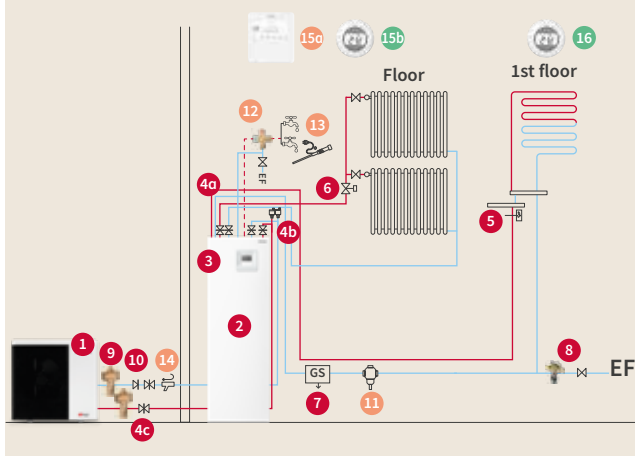
airH2O 800 H Combi

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Provide high-temperature antifreeze valves and filter screens.

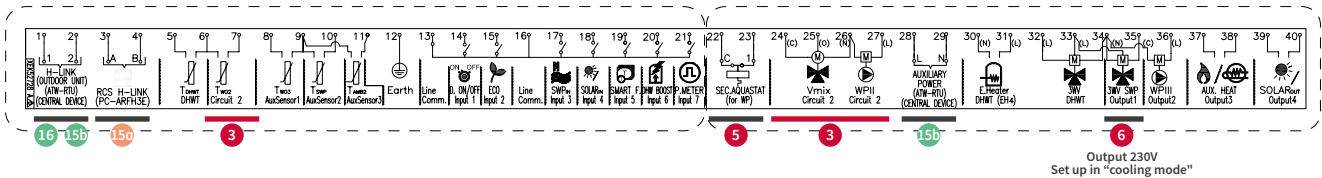
2 control zones - radiators and floors disconnected (included) (reversible)



1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (expansion tank and decoupling bottle included)	Mandatory	Hitachi supplied
3	Integrated 2-zone kit with mixing valve, balancing valve, circulator, universal temperature sensor	Mandatory	Hitachi option (ATW-2TK-08)
4a	Heating isolation valves for zone 1 and hydraulic connections module	Mandatory	Hitachi supplied (to be provided on site for 2 nd zone)
4b	DHW isolation valves	Mandatory	Not supplied
4c	Isolation valves for hydraulic connections	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Motorized valve	Mandatory (if refresh)	Not supplied
7	DNW safety unit	Mandatory	Not supplied
8	Disconnecter	Mandatory	Not supplied
9	Anti-freeze valves	Mandatory	Not supplied
10	R290 safety valve	Mandatory	Hitachi supplied
11	Mud pot	Recommended (Required if floor)	Not supplied
12	Thermostatic mixer	Recommended	Not supplied
13	Active Titanium Anode	Recommended	Option (ATW-CP-05)
14	Magnetic filter for heat exchanger	Recommended	Not supplied
15a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
15b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
16	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1



- Please note: carefully check that the heat pump circulator can compensate for pressure losses in the system and ensure the nominal flow rate required by the heat pump. Also ensure that the included secondary pump is sufficient for the network.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it completely. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- **Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**

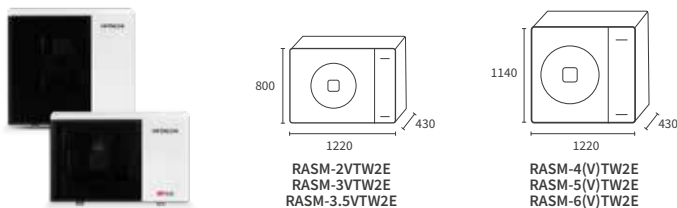


airH₂O 800 M

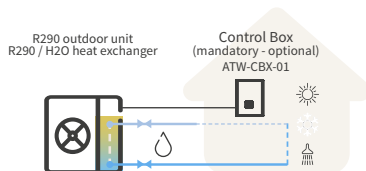
Monobloc Air/Water heat pump, 75°C, without internal module
4 to 14 kW (R290)



Outdoor units



The monobloc concept



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH3E



Wireless remote control for
ambient compensation 1st
circuit.
Ref.: ATW-RTU-07



Control Box
Part no.: ATW-CBX-01
Mandatory



Black wired remote control
Ref.: PC-ARFH3EB
Option

Hydraulic accessories



2-zone kit with 3-way valve and
wall-mounted circulator
Ref.: ATW-2TK-07



3-way directional
inversion valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y



PERFORMANCE RATING

- The AirH2O 800 M range offers exceptional performance even in cold weather and power ratings suitable for all types of projects. **new & renovation**
- Its **Constant Power** technology enables it to maintain its power rating throughout the year in 100% thermodynamic mode.
- Its **Constant Water** technology enables it to reach and maintain a constant water outlet temperature of **75°C**.



PRACTICAL FOR PROFESSIONALS

- Fully inclusive management:** All standard options (2 zones, boiler control, remote DHW management, smart grid ready, solar thermal, fan coil units).
- 100% Plug-&-Play:** No fluid handling and no opening of the outdoor unit for installation or commissioning.
- CSNET Home PRO included as standard:** View the status of your equipment remotely and adjust its settings in real time.
- NFC function** Create/copy/paste/duplicate a configuration directly via your smartphone.



EASY TO CONTROL

- Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.
- CSNet Home included as standard:** Control your comfort remotely at no extra cost.

Options



DHW storage tank
Stainless steel tank
200 L:
(H x D) 1270 x 595 mm
Ref.: DHWT-200S-3.0H2E
300 L:
(H x D) 1750 x 595 mm
Ref.: DHWT-300S-3.0H2E

R290 FLUID

Model	Unit	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW
Performance, heating							
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	2/4/6	2.4/6/8	2.4/8/10	4.5/10/12	4.5/12/14	4.5/14/16
Capacity/max. heating (-7°C outside / 35°C water)	kW	4 / 4.5	6 / 6	8 / 8	10 / 10	12 / 12	13 / 13.5
Capacity/max. heating (-7°C outside / 55°C water)	kW	4 / 4.5	6 / 6	7.5 / 7.5	10 / 10	12 / 12	13 / 13
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	4.7	4.84	4.62	4.53	4.21	4.2
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.5 / 3.25	4.67 / 3.37	4.67 / 3.44	4.53 / 3.65	4.53 / 3.55	4.54 / 3.35
Seasonal heating energy efficiency η_s (35°C) single/Tri ⁽¹⁾	%	177	184		178		179
Seasonal heating energy efficiency η_s (55°C) single/Tri ⁽¹⁾	%	127	132	135	143	139	131
Energy rating 35°C/55°C	-	A+++/A++					
Temperature range of water outlet (heating mode)	°C	20/75°C					
Max. temperature at the water outlet in thermodynamic-only mode	°C	75°C up to -5°C outside					

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	4 / 4.5	6 / 6.5	7 / 7.5	10 / 10	11 / 11	12 / 12
Absorbed capacity cooling (35°C ext/7°C water)	kW				-		
EER (reversible model)	-	2.78	2.91	2.84	3.13	2.94	2.66

Outdoor units		RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4(V)TW2E	RASM-5(V)TW2E	RASM-6(V)TW2E
Pressure level at 5m / Sound power in hot mode ⁽³⁾	dB(A)	29/55	29/56	29/57	27/53	28/53	
Dimensions (HxWxD)	mm	800 x 1220 x 430			1140 x 1220 x 430		
Net weight	kg	90			130		
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -25~+25 // -25~+43					
M remote control only - Required and not included		Control Box ATW-CBX-01 (accessory/mandatory) including PC-ARFH3E					

Hydraulic features

Expansion vessel	L	Not included					
Water flow rate (min / max)	m³/h	0.8 / 2		1 / 2	1 / 3	1.1 / 3	1.2 / 3
Hydraulic connections for heating (male/male valves supplied)	inches	1"					
Min. system water capacity	L	28			55		

Cooling properties**Subject to the DESP, category II**

Refrigerant / Refrigerant charge	- / kg	R290 / 0.9	R290 / 1.2
Compressor	-	ROTARY DC INVERTER	

Electrical features

Electrical features						
Power supply		-	230V/1Ph/50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz
SINGLE-PHASE 230V	Max. current	A	14.2	17.7	20.7	29.2
	Cable section (mm²) / max. length (m) ⁽²⁾	-	3 x 2.5/28	3 x 4/24	3 x 6/21	3 x 6/30
3-PHASE 400V	Max. current	A	-			16.7
	Cable section (mm²) / max. length (m) ⁽²⁾	-	-			5 x 4/16
Indoor/Outdoor connection (protected)		mm²	2 x 0.75			

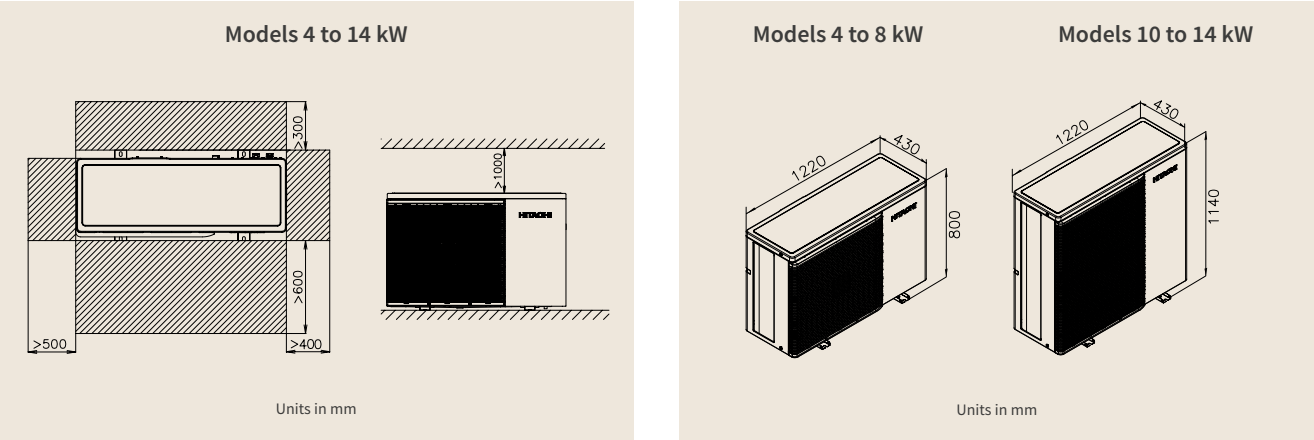
Retail price per unit excluding taxes

Monobloc units (remote control NOT included)	RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4VTW2E	RASM-5VTW2E	RASM-6VTW2E
Single-phase units						
Monobloc units (remote control NOT included)				RASM-4TW2E	RASM-5TW2E	RASM-6TW2E
Three-phase						
Control Box (NOT included, required)	ATW-CBX-01 (Control box) without PC-ARFH3E					
Price for the whole set Single-phase						
Monobloc unit + Control Box						
Price for the whole set Three-phase						
Monobloc Group + Control Box						

⁽¹⁾ = single⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825.⁽³⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards.⁽⁴⁾ Pressure to 5m in night mode - In accordance with EN12102-1 / ErP

Prepare your construction site airH2O 800 M

1. How much space do I need for my outdoor unit?



Regarding the installation rules for R290 units, please consult the documentation and comply with local regulations in force.

2. Which hydraulic connections are needed?

Hydraulic features	Unit	4.3 and 8 kW	4 to 14 kW
Water heating connections (valves not supplied)	inches		1"

3. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element or wish to use a backup heating element, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

	Power supply				Bus
Outdoor units	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lily shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RASM-2VTW2E	14.2/-	16 / - / D / -	3G2.5 / -	30/-	
RASM-3VTW2E	17.7/-	20 / - / D / -	3G4 / -		
RASM-3.5VTW2E	20.7/-	25 / - / D / -	3G6 / -		
RASM-4VTW2E/TW2E	29.2 / 16.7	32 / 20 / D	3G6/5G4	30 / 16	
RASM-5VTW2E/TW2E					
RASM-6VTW2E/TW2E					
Control Box	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V	
	Max A	A/curve	mm²	m	
ATW-CBX-01	5/19 with optional DHW tank	5/20 with optional DHW tank	3G0.75 / 3G4 with optional DHW tank	28	

Hydraulic setups

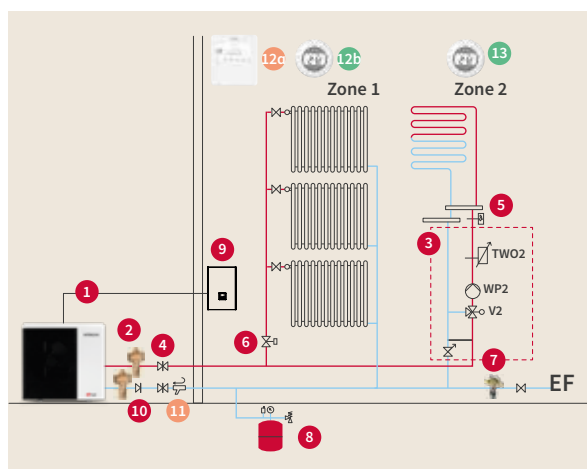
airH2O 800 M

Provide high-temperature antifreeze valves and filter screens.

Your diagrams in just a few clicks
at yutaki-applications.com

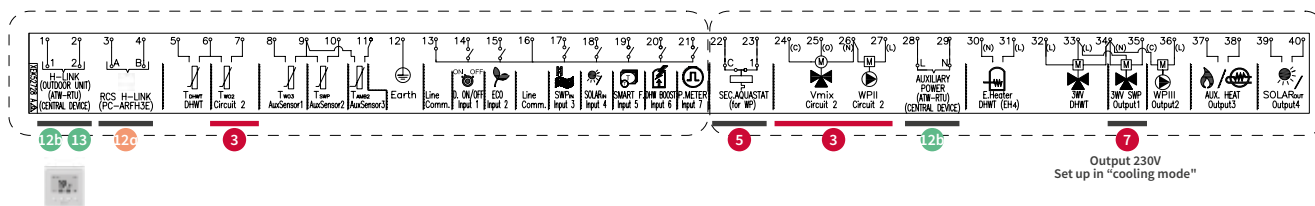


2 control zones: direct radiators - mixed flooring (standard mode - reversible)

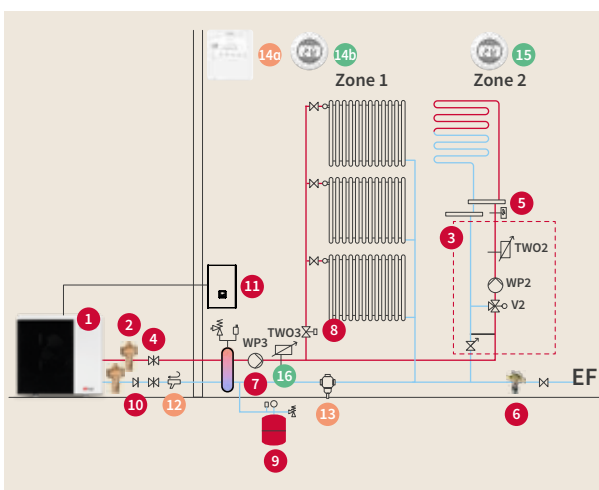


1	Outdoor unit (Please note: Control Box required as an option (ATW-CBX-01))	Mandatory	Hitachi supplied
2	Anti-freeze valves (x 2)	Mandatory	Not supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Motorized valve	Mandatory (if refresh)	Not supplied
7	Disconnect	Mandatory	Not supplied
8	Expansion tank kit	Mandatory	Not supplied
9	Control box with PC-ARFH3E	Mandatory	Hitachi accessory (ATW-CBX-01)
10	R290 safety valve	Mandatory	Hitachi supplied
11	Magnetic filter for heat exchanger	Recommended	Not supplied
12c	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi option PC-ARFH3E
12b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
13	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it completely. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- **Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**

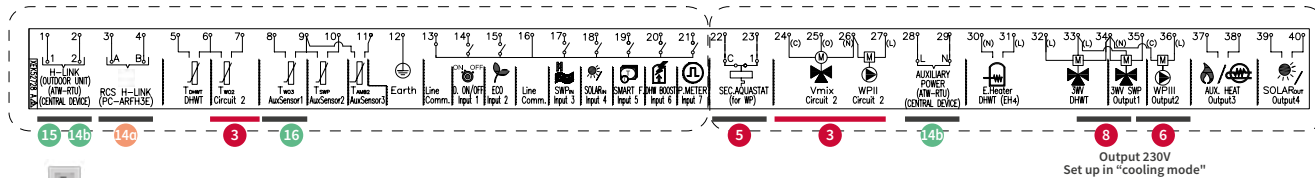


2 control zones: Decoupling of radiators and mixed flooring (standard mode - reversible)



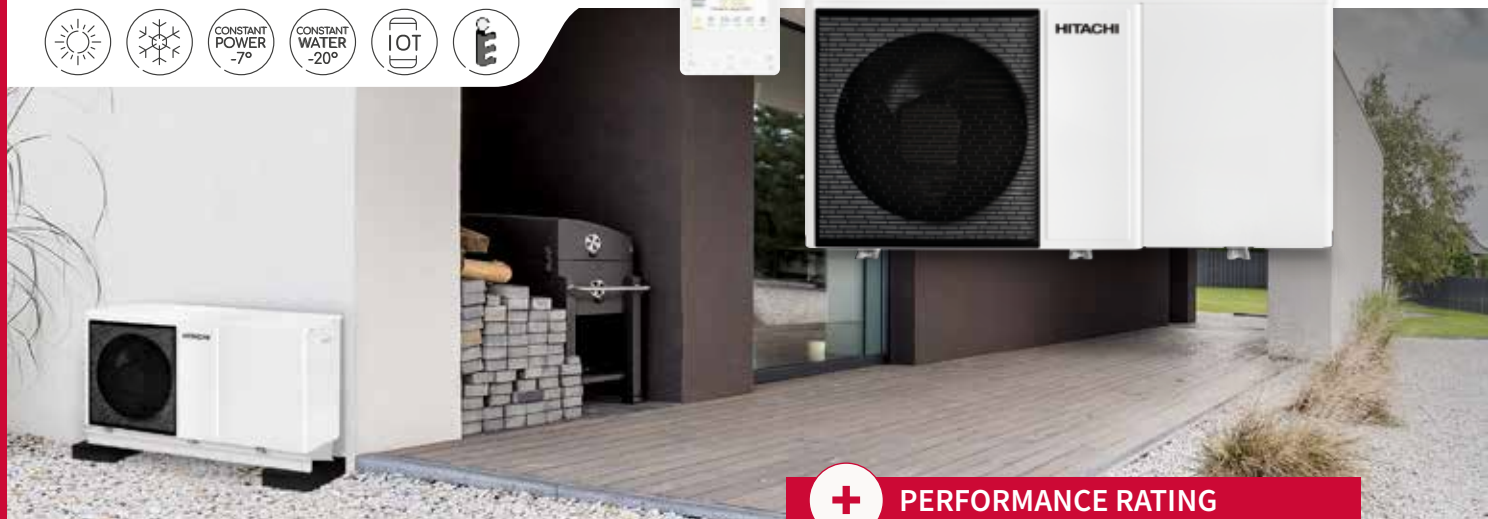
1	Outdoor unit (Please note: Control Box required as an option (ATW-CBX-01))	Mandatory	Hitachi supplied
2	Anti-freeze valves (x 2)	Mandatory	Not supplied
3	2-zone kit with mixing valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Disconnect	Mandatory	Not supplied
7	Secondary circulator	Mandatory	Not supplied
8	Motorized valve	Mandatory (if refresh)	Not supplied
9	Expansion tank kit	Mandatory	Not supplied
10	R290 safety valve	Mandatory	Hitachi supplied
11	Control box with PC-ARFH3E	Mandatory	Hitachi accessory (ATW-CBX-01)
12	Magnetic filter for heat exchanger	Recommended	Not supplied
13	Mud pot	Recommended	Not supplied
14a	Wired thermostat for zone 1 compensation: remote control PC-ARFH1E or PC-ARFH2E	Recommended	Hitachi option PC-ARFH3E
14b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
15	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1
16	Universal temperature sensor	Option	Hitachi option (ATW-WTS-02N)

- Please note: carefully check that the heat pump circulator can compensate for losses from the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it completely. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- **Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**

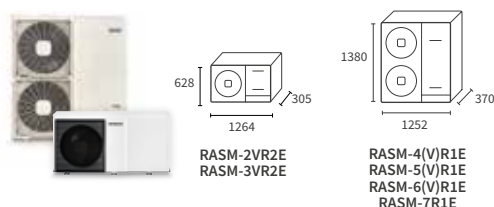


Yutaki M

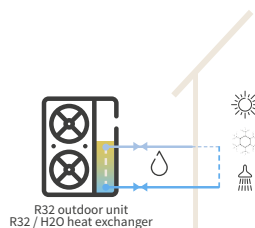
Monobloc Air/Water heat pump, 60°C, without internal module
4.3 to 16 kW (R32)



Outdoor units



The monobloc concept



Compatible controls and accessories

Controls and connectivity



Wired remote control
Ref.: PC-ARFH2E



CSNET Home connectivity
gateway
Ref.: ATW-IOT-01



Wireless remote control for
ambient compensation
Circuit 1.
Ref.: ATW-RTU-07

Hydraulic accessories



2-zone kit with 3-way valve and
wall-mounted circulator
Ref.: ATW-2TK-07



3-way directional
inversion valve
Ref.: ATW-3WV-01



Universal sensor
Ref.: ATW-WTS-02Y

+ PERFORMANCE RATING

- The Yutaki M range offers exceptional performance even in cold weather and power ratings suitable for all types of projects. **new & renovation**
- Its **Constant Power** technology enables it to maintain its power all year round down to -7°C outside in 100% thermodynamic mode (up to 55°C water temperature)*
- Its **Constant Water** technology enables it to reach and maintain a constant water outlet temperature from 60°C to -10°C ext, and 55°C to -20°C ext.*

*only models from 11 to 16kW.

+ PRACTICAL FOR PROFESSIONALS

- Fully-inclusive management:** All standard options (2 zones, boiler backup, remote DHW management, smart grid ready, solar thermal, fan coil units).
- Without fluid manipulation:** a fully hydraulic connection.
- CSNET Home PRO:** View the status of your equipment remotely and adjust its settings in real time.

+ EASY TO CONTROL

- Controller:** A modern, stylish LCD screen that is easy to use for both home and professional users.

Options



DHW storage tank
Stainless steel tank
200 L:
(H x D) 1270 x 595 mm
Ref.: DHWT-200S-3.0H2E
300 L:
(H x D) 1750 x 595 mm
Ref.: DHWT-300S-3.0H2E



Reversible kit
Equipment required to
operate in cooling mode
Ref.: ATW-CKM-01



Control cabinet
Combines the electrical
connections and the
remote control.
Ref.: ATW-YMM-02

Model	Unit	Yutaki M 4.3 kW	Yutaki M 8 kW	Yutaki M 11 kW	Yutaki M 12 kW	Yutaki M 13 kW	Yutaki M 16 kW
Performance, heating							
Min./rated/max. heating capacity (7°C outside./35°C water)	kW	1.85/4.30/6.50	2.10/ 8.00 / 11.00	4.30/11.00/14.00	4.80/12.00/15.00	5.50/13.00/16.00	6.00/16.00/18.00
Capacity/max. heating (-7°C outside / 35°C water)	kW	4.5 / 5.5	5.8 / 7.5	11.0 / 11.0	12.0 / 12.5	13.0 / 14.0	16.0 / 16.0
Capacity/max. heating (-7°C outside / 55°C water)	kW	4.0 / 4.77	5.0 / 5.5	11.0 / 11.0	12.0 / 12.0	13.0 / 13.0	16.0 / 16.0
Capacity Heating (7°C outside/35°C water)	kW	0.86	1.74	2.34	2.66	2.88	3.62
Heat pump (7°C outside/35°C water) in accordance with EN14511	-	5.00	4.60	4.70	4.50	4.50	4.42
SCOP average climate 35°C/55°C in accordance with EN14825	-	4.44 / 3.19	4.44 / 3.20	4.22 / 3.21	4.13 / 3.26	4.15 / 3.28	3.97 / 3.21
Seasonal energy efficiency Heating η _s (35°C) single/Tri ⁽¹⁾	%	175	175	175/166	175 / 162	175 / 163	-/156
Seasonal heating energy efficiency η _s (55°C) single/Tri ⁽¹⁾	%	125	125	132 / 125	133 / 127	133 / 128	-/125
Energy rating 35°C / 55°C	-	A+++/A++		A+++/A++		A++	
Temperature range of water outlet (heating mode)	°C			20 / 60°C			
Max. temperature at the water outlet in thermodynamic-only mode	°C	60°C up to -5°C ext		60°C up to -10 °C ext / 55°C up to -20°C ext			

Performance in Cooling mode (optional)

Capacity/max. cooling mode (35°C outside/7°C water) (reversible)	kW	4.00 / 5.12	6.50 / 7.00	11.00 / 12.00	12.00 / 13.00	13.00 / 14.70	14.00 / 16.00
Absorbed capacity cooling (35°C ext/7°C water)	kW	1.05	1.94	3.26	3.64	4.04	4.46
EER (reversible model)	-	3.82	3.35	4.80	4.74	4.67	4.61

Single block	Unit	RASM-2VR2E	RASM-3VR2E	RASM-4(V)R1E	RASM-5(V)R1E	RASM-6(V)R1E	RASM-7R1E
Additional electrical heating element (optional)	kW	6 (2 + 2 + 2)	6 (2 + 2 + 2)	6 (2 + 2 + 2)			
Net weight	kg	71	73	130	138	138	138
Dimensions (HxWxD)	mm	628 x 1264 x 305		1380 x 1252 x 370			
Sound pressure level up to 5m / sound power ⁽³⁾	dB(A)	30/50	30/51	41/61	43/63	43/63	45/65
Air flow rate	m³/h	2526	2982	7920	8280	8280	8640
Operating ranges in Cooling/Heating/DHW mode	°C	+10~+46 // -25~+25 // -25~+35					
Remote control	-	Not included					

Hydraulic features

Expansion vessel	L	6					
Water flow (min/rated/max)	m³/h	0.50/0.8/1.90	0.60/1.3/2.10	1/1.89/2.80	1.10/2.06/3	1.20/2.24/3	1.20/2.75/3
Min. system water capacity	L	28		50	55	55	65
Diameter of hydraulic connections	inches	1"		1-1/4"			
Maximum cumulative length of hydraulic piping (up to V3V and/or DHW tank)	m	-		10			

Electrical features

Power supply		230V/1Ph/50Hz		230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		400V/3Ph/50Hz	
SINGLE-PHASE 230V	Max. current	A	12.8	16.8	28.8	28.8	-
	Cable section (mm²)/max. length (m) ⁽²⁾	-	3 x 2.5/14	3 x 4/16	3 x 6/30		
	Maximum intensity with auxiliary heating element + tank heating element / Yutaki M Option	A	23.1	28.5	41.3	41.3	-
	Cable section (mm²)/max. length (m) ⁽²⁾	-	3 x 6/28		3 x 10 / 20		
3-PHASE 400V	Max. current with additional resistance	-	-	-	16.3	16.3	16.3
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-	-	5 x 4/16		
	Maximum intensity with auxiliary resistance + tank resistance / Yutaki M Option	-	-	-	28.8		
	Cable section (mm²)/max. length (m) ⁽²⁾	-	-	-	5 x 6/18		
Indoor/Outdoor connection (protected)		mm²	-	-	2 x 0.75 mm		

Cooling properties

Only RAS-3WHVRP2E submitted DESP Cat II

Change of refrigerant	kg	1.1	1.2	2.6	3.0	3.0	3.0
Refrigerant	-	R32					
Compressor	-	ROTARY					

Retail price per unit excluding taxes

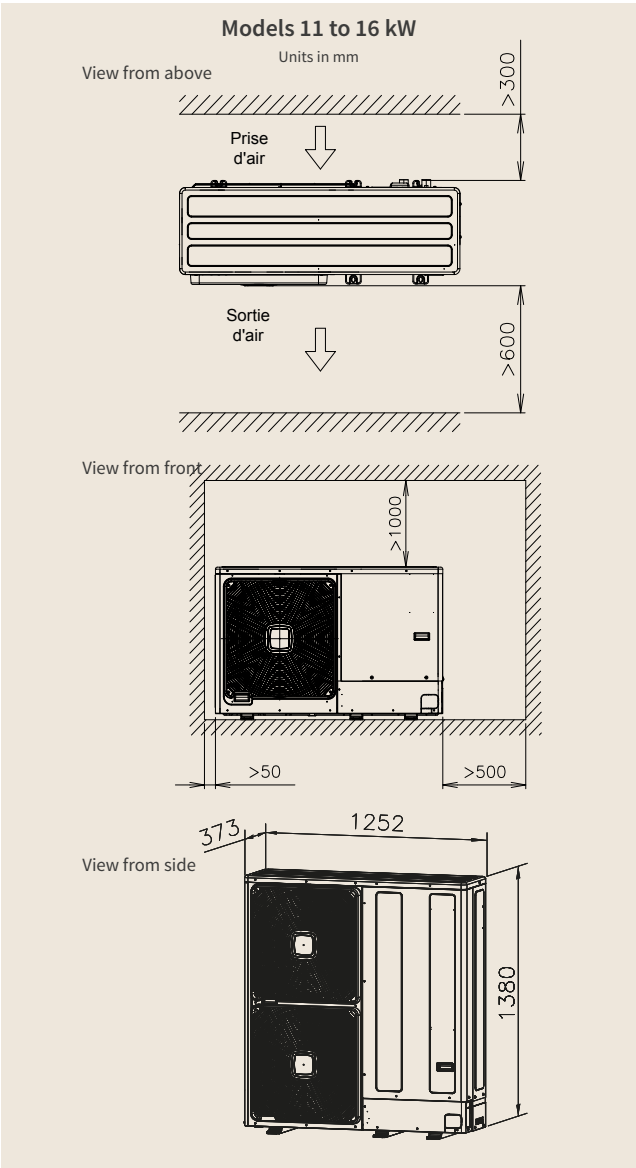
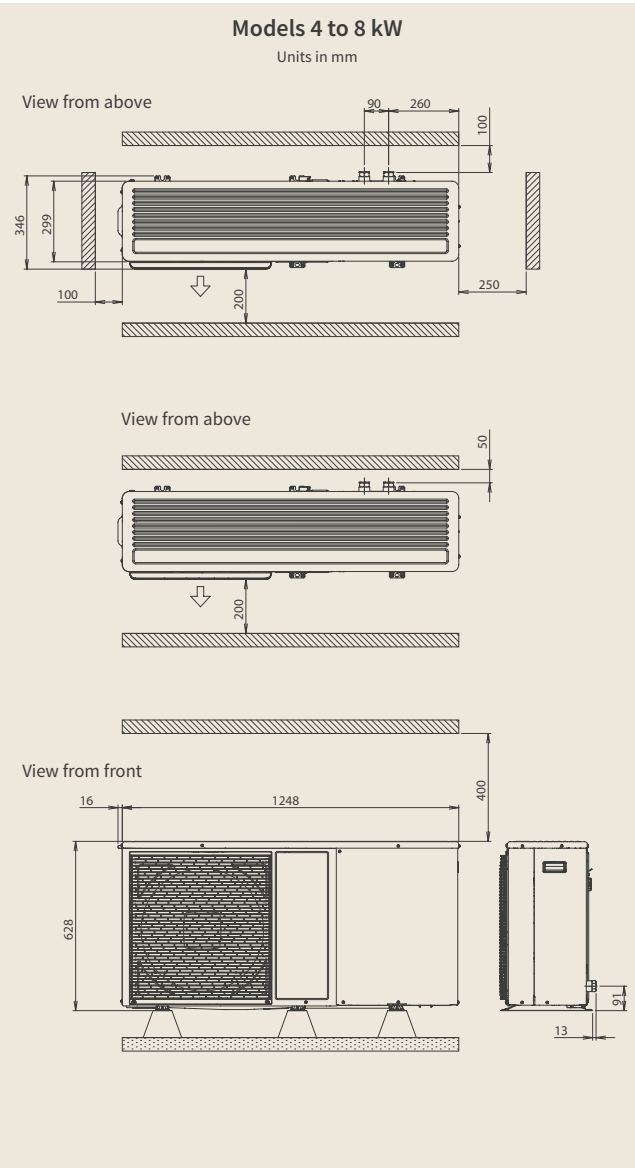
Monobloc units (remote control NOT included)		RASM-2VR2E	RASM-3VR2E	RASM-4VR1E	RASM-5VR1E	RASM-6VR1E	-
Single-phase units							-
Monobloc units (remote control NOT included)		-		RASM-4R1E	RASM-5R1E	RASM-6R1E	RASM-7R1E
Three-phase							
Remote control (NOT included, required)		PC-ARFH2E		PC-ARFH2E			
Price for the whole set Single-phase							-
Single block unit + remote control							
Price for the whole set Three-phase		-					
Single block unit + remote control							
Reversible kit (Optional)		ATW-CKM-01		ATW-CKM-01			
Control cabinet (Optional)		ATW-YMM-01		ATW-YMM-02			

⁽¹⁾ Non-regulated seasonal energy efficiency, Keymark-certified.⁽²⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards. (V) = single.⁽³⁾ Pressure to 5m in night mode / In accordance with EN12102-1

Prepare your construction site

Yutaki M

1. How much space do I need for my outdoor unit?



2. Which hydraulic connections are needed?

Hydraulic features	Unit	4.3 and 8 kW	11 to 16 kW
Water heating connections (valves not supplied)	inches	1"	1"1/4 (female)

3. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. If you have a remote DHW tank with a heating element or wish to use a backup heating element, please refer to the technical catalog. Data provided as a guide, please refer to the applicable electrical standard.

Outdoor units	Power supply				Bus
	Intensity	Protection	Cable section	Max. cable length	Lily shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RASM-2VR2E	12.8	16 / D	3G2.5	28	
RASM-3VR2E	16.8	20 / D	3G4	24	

Outdoor units	Power supply				Bus
	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lily shielded cable 2 x 0.75 mm²
	Max A	A/curve	mm²	m	
RASM-4VR1E/R1E	28.8 / 16.3	32 / 20 - D	3G6/5G4	30 / 16	
RASM-5VR1E/R1E	28.8 / 16.3	32 / 20 - D	3G6/5G4	30 / 16	
RASM-6VR1E/R1E	28.8 / 16.3	32 / 20 - D	3G6/5G4	30 / 16	
RASM-7R1E	-/16.3	-/20- D	-/5G4	-/16	

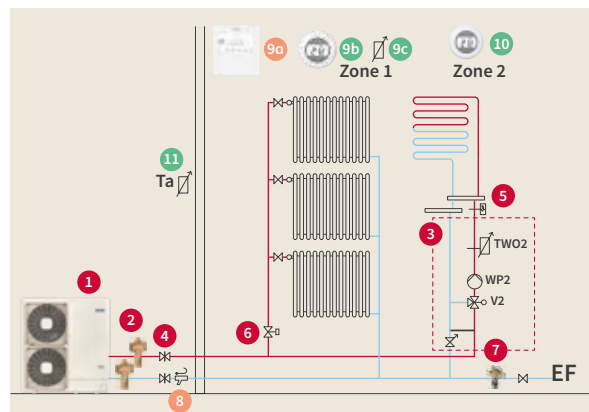
Hydraulic setups

Yutaki M

Your diagrams in just a few clicks on
yutaki-applications.com



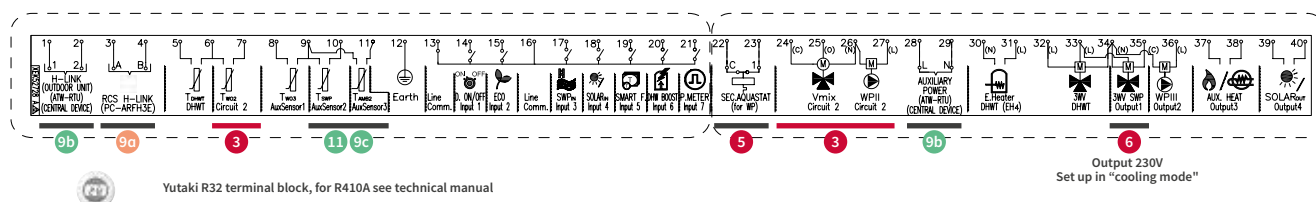
2 control zones: radiators in direct - mixed flooring (standard mode - reversible)



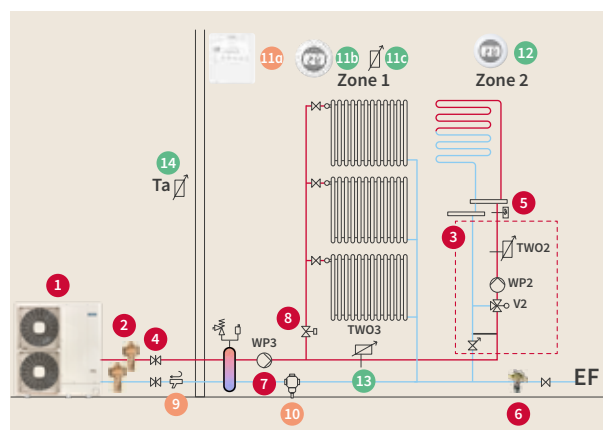
1	Outdoor unit (Please note: Optional mandatory controller (PC-ARFH1E))	Mandatory	Hitachi supplied
2	Anti-freeze valves (x 2)	Mandatory	Not supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Motorized valve	Mandatory (if refresh)	Not supplied
7	Disconnecter	Mandatory	Not supplied
8	Magnetic filter for heat exchanger	Recommended	Not supplied
9a	Wired thermostat for zone 1 compensation: remote control PC-ARFH1E or PC-ARFH2E	Recommended	Hitachi option PC-ARFH1E or PC-ARFH2E
9b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
9c	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
10	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1
11	Outdoor sensor	Option	Hitachi option (ATW-2OS-02)



- Please note: carefully check that the heat pump circulator can compensate for pressure losses in the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).



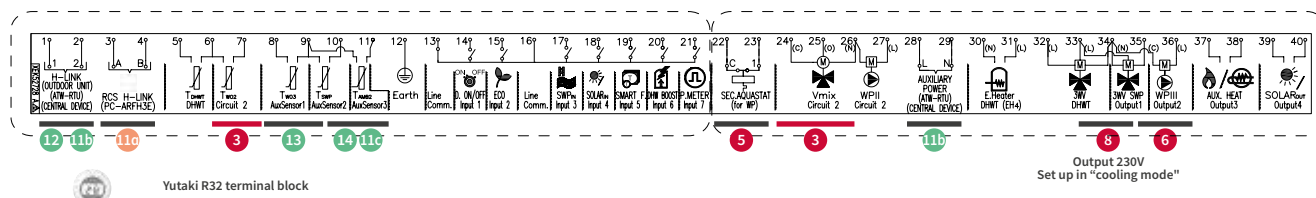
2 control zones - direct radiator decoupling and mixed floor heating (standard mode - reversible)

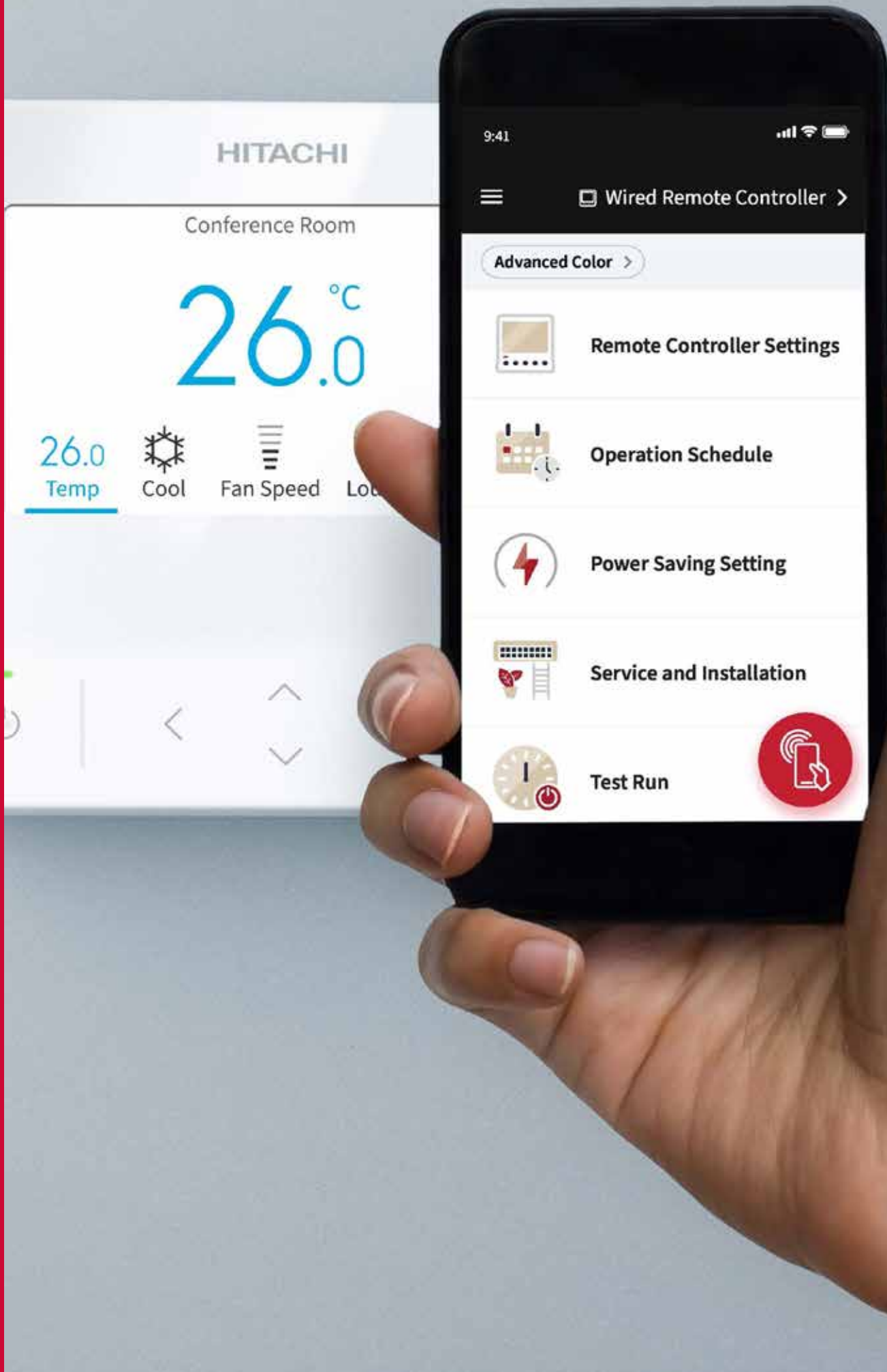


1	Outdoor unit (Please note: Optional mandatory controller (PC-ARFH1E))	Mandatory	Hitachi supplied
2	Anti-freeze valves (x 2)	Mandatory	Not supplied
3	2-zone kit with mixing valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valve	Mandatory	Not supplied
5	Safety aquastat for underfloor heating	Mandatory	Hitachi option (ATW-AQT-01)
6	Disconnecter	Mandatory	Not supplied
7	Secondary circulator	Mandatory	Not supplied
8	Motorized valve	Mandatory (if refresh)	Not supplied
9	Magnetic filter for heat exchanger	Recommended	Not supplied
10	Mud pot	Recommended	Not supplied
11a	Wired thermostat for zone 1 compensation: remote control PC-ARFH1E or PC-ARFH2E	Recommended	Hitachi option PC-ARFH1E or PC-ARFH2E
11b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
11c	Wired ambience sensor	Option	Hitachi option (ATW-ITS-01)
12	Compensation thermostat zone 2	Option	Hitachi option ATW-RTU-06 if RTU-07 zone 1
13	Universal temperature sensor	Option	Hitachi option (ATW-WTS-02Y)
14	Outdoor sensor	Option	Hitachi option (ATW-2OS-02)



- Please note: carefully check that the heat pump circulator can compensate for pressure losses in the network and ensure the nominal flow rate required by the heat pump. Otherwise, hydraulic decoupling is required.
- Ensure that the minimum volume required by the heat pump is sufficient; if not, add a buffer volume.
- Always flush the heating system before connecting and filling it permanently. Use a compatible inhibitor product, in accordance with the manufacturer's recommendations.
- Check that the expansion tank included in the machine is sufficient for the overall volume of the installation.
- Diagram provided for illustrative purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).






RESIDENTIAL

1 Air/Water Heat Pump Control and Connectivity Solutions



Controllers, Thermostats, and Connectivity by Hitachi

2 Air / Water Heat Pump Accessories



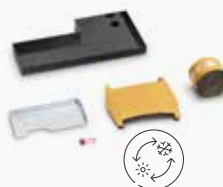
Control



Probes



Hydraulic



Cooling



Domestic hot water



Outdoor units

With the CSNET Home application,

CSNET Home

Your comfort and savings at your fingertips!

Control your comfort remotely with the new smartphone and web app.

Quick and easy installation/pairing via the WIZARD assistant

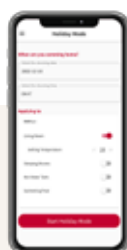


Télécharger dans l'App Store

DISPONIBLE SUR Google Play



End user



Intuitive heating zone management

Vacation Mode

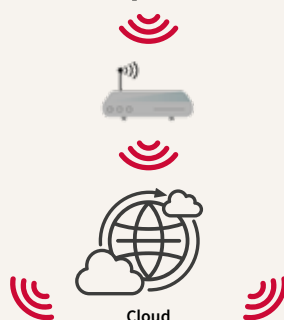
Easy weekly programming thanks to the WIZARD assistant

Energy consumption data

How do I connect my installations to my PRO equipment?



ATW-IOT-02 gateway included as standard with the ranges **airH₂O** 600 to 800*



For Yutaki ranges not equipped with a PC-ARFH3E controller, the optional ATW-IOT-01 gateway is required.



CSNET Home

End user



1. Create a CSNet Home account and have the PRO feature activated by your HITACHI sales representative (provide company name and account email address).
2. Access request sent after adding the installation code* provided by the end customer to its maintainer on the PRO interface.
*(End-user interface / Installation settings menu / Remote access code)
3. Effective access after validation by the end customer (activate viewing + control option).



CSNET Home PRO

maintainers



*With all modules equipped with a PC-ARFH3E controller.

For older models starting with the 2016 Yutaki or Yutampo ball, the optional ATW-IOT-01 gateway is required and not included.

Take control anywhere, anytime!

CSNET Home PRO

Analyze your equipment and take control remotely!

Track your equipment and intervene remotely with new smartphone and web applications.



Real-time remote visualization and monitoring of the installed equipment



Operating data over 3 months and more than 80 parameters



Fault code and description + troubleshooting procedure



Order history



Remote controls: Temperature, stop/start, water management (fixed and compensated).*

Advanced features to take support and monitoring even further



Remote control of **all types of water management** (including compensated).*



Log of **orders**.



Remote changes to **system parameters**.*



Reading of and changes to **user configuration** (weekly programming, vacation mode, power consumption).



Export of data in **Excel format** (command log, operational data history).

An **easy to install** gateway and better **remote supervision of equipment** to achieve better **quality of service** and to **minimize the need for on-site visits**.

CSNET Home is compatible with all Yutaki models since 2016.* and with Yutampo (with optional ATW-IOT-01 gateway + addition of ATW-HCD-01 card).

* A machine update may be necessary; consult your Hitachi representative.

List of accessories and compatible combinations

Accessory reference	Description	AIRH2O 600 S	AIRH2O 600 S COMBI	YUTAKI S 2.0	YUTAKI S80	YUTAKI S80 COMBI	AIRH2O 800 H	AIRH2O 800 H COMBI	AIRH2O 800 M	YUTAKI M 4.3 AND 8 KW R32	YUTAKI M 11 TO 16 KW R32	YUTAMPO R32
Control accessories												
PC-ARFH1E	Wired remote control			•	•							
PC-ARFH2E	Wired remote control									•	•	
PC-ARFH3E	Wired remote control	•	•	•			•	•	•			
ATW-RTU-07	Ambience compensation remote thermostat 1st circuit	•	•	•	•	•	•	•	•	•	•	
ATW-RTU-06	Ambience compensation remote thermostat 2nd circuit	•	•	•	•	•	•	•	•	•	•	
ATW-RTU-04	Thermostat ON/OFF radio	•	•	•	•	•	•	•	•	•	•	
ATW-IOT-01	CSNET Home gateway				•	•				•	•	•
ATW-HCD-01	H-LINK adapter for wireless thermostats and central devices such as Modbus/KNX/ATW-IOT-01											•
ATW-CBX-01	Control Box								•			
ATW-YMM-02	Control cabinet (controller optional)									•	•	
ATW-YCC-01	Cascade control cabinet				•	•						
ATW-YCC-03	Cascade control cabinet									•	•	
ATW-YCC-04	Cascade control cabinet	•	•	•			•	•	•			
ATW-AOS-02	4-port auxiliary output box	•	•	•	•	•	•	•	•	•	•	
ATW-OFC-02	Configurable input/output connecting cables											•
ATW-FCP-01	Seal cover					•						
ATW-FCP-03	Yutaki 2.0 and H shut-off cover	•	•	•			•	•	•			
ATW-KNX-02	KNX communication interface	•	•	•	•	•	•	•	•	•	•	•
ATW-MBS-02	Modbus Single communication interface	•	•	•	•	•	•	•	•	•	•	•
HC-A16MB	MODBUS gateway for multiple YUTAKI systems (up to 8 units, with or without cascade controller, 16 UI DRV)	•	•	•	•	•	•	•	•	•	•	•
HC-A64MB	MODBUS gateway for multiple YUTAKI systems (up to 8 units, with or without cascade controller, 64 UI DRV)	•	•	•	•	•	•	•	•	•	•	•
ATW-EC-01	10m extension cable for ATW-IOT-02 Wi-Fi gateway (standard on AirH2O 600 & 800)	•	•	•			•	•	•			

Accessory reference	Description	AIRH2O 600 S	AIRH2O 600 S COMBI	YUTAKI S 2.0	YUTAKI S80	YUTAKI S80 COMBI	AIRH2O 800 H	AIRH2O 800 H COMBI	AIRH2O 800 M	YUTAKI M 4.3 AND 8 KW R32	YUTAKI M 11 TO 16 KW R32	YUTAMPO R32
Hydraulic accessories												
ATW-2TK-08	2 zones kit (integrated on 220L model only)		•					•				
ATW-2TK-07	2 zones kit (not integrated) wall version	•	•	•	•	•	•	•	•	•	•	
ATW-AQT-01	Max. safety aquastat, floor-mounted	•	•	•	•	•	•	•	•	•	•	
Contact us	Hydraulic decoupling canister for heat pump	•	•	•	•	•	•	•	•	•	•	
ATW-WCV-01	Anti-return water valve	•	•	•	•	•	•	•	•	•	•	•
ATW-DPOV-01	Differential discharge valve	•	•	•	•	•	•	•	•	•	•	
Domestic hot water accessories												
ATW-CP-05	Active Titanium Anode		•					•				
DHWT-200S-3.0H2E	200-liter DHW storage tank – stainless steel	•		•	•		•		•	•	•	
DHWT-300S-3.0H2E	300-liter DHW storage tank – stainless steel	•		•	•		•		•	•	•	
DHWS200S-2.7H2E	200-liter DHW storage tank – stainless steel					•						
DHWS260S-2.7H2E	260-liter DHW storage tank – stainless steel					•						
ATW-FWP-02	Kit to install the Yutaki S80 Combi remote tank (DHW tank next to indoor unit)					•						
ATW3WV-01	3-way directional inversion valve – application; DHW, swimming pool	•	•	•	•	•	•	•	•	•	•	
Accessories: sensors												
ATW-ITS-01	Wired ambiance sensor	•	•	•	•	•	•	•	•	•	•	
ATW-WTS-02Y	Universal sensor for hot water, hydraulic decoupling, 2nd circuit, swimming pool, solar, DHW tank if not DHWT Hitachi	•	•	•	•	•	•	•	•	•	•	
Accessories cooling mode												
ATW-CKS-01	Reversible AirH2O 600 S kit, 4.3 to 8 kW	•										
ATW-CKS-02	Reversible AirH2O 600 S kit, 8.5 to 14 kW	•										
ATW-CKS-03	Yutaki S 2.0 reversible kit 20 to 24kW	•										
ATW-CKS-04	Reversible AirH2O 800 H kit						•					
ATW-CKM-01	Yutaki M reversible kit									•	•	
ATW-CKSC-02	Reversible AirH2O 600 S COMBI and 800 H combi kits - Insulation + jumper		•					•				
ATW-CKSC-03	Reversible AirH2O 600 S COMBI and 800 H combi kits - Insulation + jumper + drain pump		•					•				
Accessories for outdoor units												
WEH 6E	Connected heater				•	•			•	•	•	

List of accessories and outdoor unit compatibilities

Accessory reference	Description	RAS-(1.5-3) WHVRP2E	RAS-(4-6) WH(V)NPE	RAS-(8-10) WHNPE	RAS-(3.5-6) WH(V)RP2E	RASM-(2-3) VR2E	RASM-(4-7) (V) R1E	RASM-(2-6) (V) TW2E
Miscellaneous								
DH-SP63A	Condensate tray resistance	•						
DH-SP280A	Condensate tray resistance		•			•	•	
ATW-DH0-01	Condensate tray resistance				•			•
DBS-12L	Condensate evacuation connection	•				•		
DBS-26	Condensate evacuation connection		•	•	•		•	•

Control accessories



Wired remote control

Ref.: PC-ARFH1E

Only compatible with Yutaki S80 & S80 Combi.
Included except for Yutaki S80.



Wired remote control

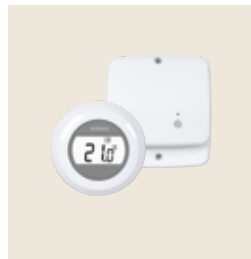
Ref.: PC-ARFH2E

Included except for Yutaki M.



Wired NFC remote control

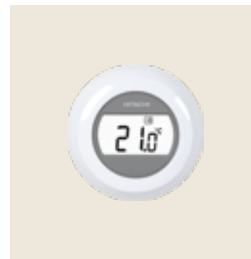
Only compatible with AirH2O 600 & 800 & Yutaki 20 to 24kW with 3E series indoor module.
Version (B) = black
Ref.: PC-ARFH3E(B)



Ambience compensation remote thermostat

1st circuit.

Ref.: ATW-RTU-07



Ambience compensation remote thermostat

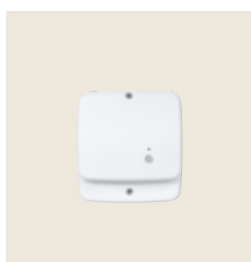
2nd circuit.

Ref.: ATW-RTU-06



Thermostat ON/OFF radio

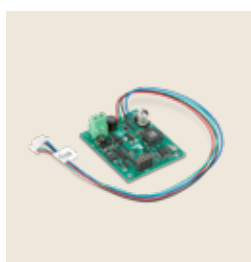
Ref.: ATW-RTU-04



CSNET Home gateway

Communication gateway. Integration of Hitachi IoT environment for Yutaki model.

Ref.: ATW-IOT-01



HLINK adapter

For connecting a Yutampo tank to the ATW-IOT-01 / ModBus / KNX centralized system

Ref.: ATW-HCD-01 or 02



Control cabinet

Only for Yutaki M 4 to 16kW R32 models. Combines the electrical connections and the remote control.

Ref.: ATW-YMM-02



AirH2O 800 M Control Box

Control cabinet and wiring, mandatory, for AirH2O 800 M models only.

Ref.: ATW-CBX-01



Cascade control cabinet

Management of a cascade of up to 8 Yutaki pumps from the same range and with the same power (single-phase or three-phase). Only compatible with Yutaki S80 & S80 Combi.

Ref.: ATW-YCC-01



Cascade control cabinet

Management of a cascade of up to 8 Yutaki pumps from the same range and with the same power (single-phase or three-phase). Only compatible with Yutaki M R32

Ref.: ATW-YCC-03



Cascade control cabinet

Management of a cascade of up to 8 AirH2O 600 or 800 units, from the same range and with the same power. Integrated Wi-Fi / CSNet Home. Not compatible with Yutaki or AirH2O 400.

Ref.: ATW-YCC-04



Yutampo R32 cable connectors

For configurable inputs/outputs.

Ref.: ATW-OFC-02



Auxiliary output box

4 ports available: operation, alarm, cooling, thermo-OFF.

Ref.: ATW-AOS-02



Front cover* Yutaki S80 Combi

Use if moving the remote control in the environment.

Ref.: ATW-FCP-01



Front cover* AirH2O 600 / 800 / Yutaki

Use if moving the remote control in the environment.

Ref.: ATW-FCP-03



KNX® communication interface

Communication interface.KNX® environment integration.

Ref.: ATW-KNX-02



Modbus communication interface

Communication interface.Modbus® environment integration.

Ref.: ATW-MBS-02



Modbus gateway for multiple systems

(Up to 8 units, with or without cascade controller).

Refs.: HC-A16MB
HC-A64MB

*Non-contractual visual

*Non-contractual visual

Control accessories



AirH2O 600 & 800 WiFi gateway extension cable

For offset of the ATW-IOT-02 gateway included as standard.

Length 10m

Ref.: ATW-EC-01

Hydraulic accessories



2-zone integrated kit

This accessory is essential if you want to maintain 2 distinct temperature settings.

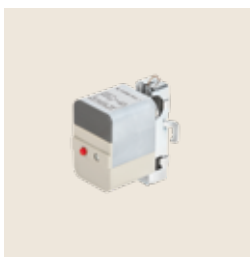
Ref.: ATW-2TK-08 (for AirH2O S COMBI and H COMBI 220L only).



2-zone kit with 3-way valve and wall-mounted circulator

This accessory is essential if you want to maintain 2 distinct temperature settings.

Ref.: ATW-2TK-07



Max. safety aquastat, floor-mounted

This accessory is essential for floor-mounted heaters (DTU 65-14).

Ref.: ATW-AQT-01



Anti-return water valve

Ref.: ATW-WCV-01



Differential discharge valve

This accessory ensures a constant flow through the heat pump condenser.

Ref.: ATW-DPOV-01

Domestic hot water accessories



Active Titanium Anode

Ref.: ATW-CP-05
Anode compatible with AirH2O S and H COMBI and Yutampo R32.



DHW storage tank

Stainless steel tank.

Refs.:
200 L: DHWT-200S-3.0H2E
(H x D) 1270 x 595 mm
300 L: DHWT-300S-3.0H2E
(H x D) 1750 x 595 mm



DHW storage tank

Stainless steel tank for Yutaki S80 COMBI.

Refs.:
200 L: DHWS200S-2.7H2E
260 L: DHWS260S-2.7H2E



Kit for installation with a separate tank

Kit for installing the DHW tank on the side of the indoor unit for Yutaki S80 COMBI.

Ref.: ATW-FWP-02



3-way directional inversion valve

DHW and swimming pool applications.

Ref.: ATW-3WV-01

Accessories: sensors



Wired ambiance sensor

Ref.: ATW-ITS-01

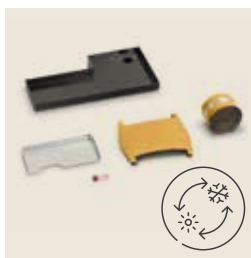


Universal sensor

Sanitation, hydraulic decoupling, Circuit 2, swimming pool, solar (to be expected if the tank is not a Hitachi DHWT).

Ref.: ATW-WTS-02Y

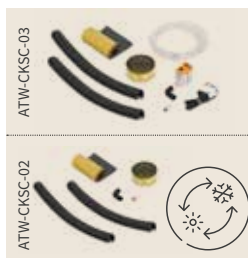
Accessories cooling mode



Reversible AirH2O 600 S and Yutaki S kits

Equipment required for cooling operation.

Refs.: ATW-CKS-01
(AirH2O 600 S - 3.5 to 8 kW)
ATW-CKS-02
(AirH2O 600 S - 8.5 to 14 kW)
ATW-CKS-03
(Yutaki S 2.0 - 20 to 24 kW)



Reversible AirH2O 600 S COMBI & 800 H COMBI kits

Equipment required for cooling operation.

Refs.: ATW-CKSC-02
ATW-CKSC-03
(with condensate pump)



Reversible AirH2O 800 H kit

Equipment required for cooling operation.

Refs.: ATW-CKS-04



Reversible Yutaki M R32 kit

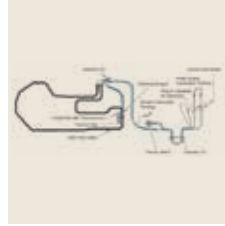
Equipment required for cooling operation.

Ref.: ATW-CKM-01

Accessories for outdoor units



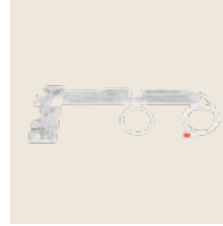
Connected heater
Ref.: WEH-6E



Condensate tray
resistance
Ref.: DH-SP63A



Condensate tray
resistance
Ref.: DH-SP280A



Condensate tray
resistance
Ref.: ATW-DH0-01



Condensate
evacuation connection
Ref.: DBS-12L
Compatible AirH2O 600 from
3.5 to 8 kW



Condensate
evacuation connection
Ref.: DBS-26
Compatible AirH2O 600 from 8,5
to 14 kW and AirH2O 800 from
4 to 14 kW





Hot water thermodynamic

RESIDENTIAL

Individual Production Solution

Split thermodynamic water heater
DHW standalone

Yutampo R32: up to 270L

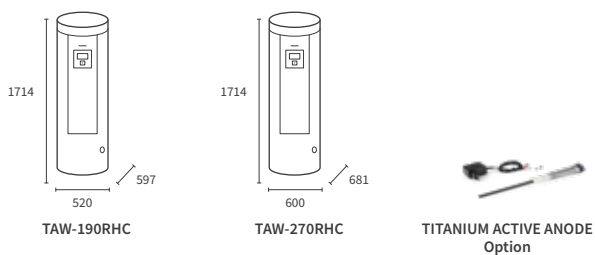


Yutampo R32

Single-split thermodynamic water heater, R32, 55°C 190 & 270L



Indoor units



Outdoor units



Compatible controls and accessories

Controls



CSNET Home gateway connectivity
Ref.: ATW-IOT-01



KNX communication interface
Ref.: ATW-KNX-02



H-Link adapter (for connection to Hitachi IoT, Modbus, KNX, etc.)
Ref.: ATW-HCD-01



Input/output connector cables
Ref.: ATW-OFC-02

Hydraulic accessory



Titanium active anode
Ref.: ATW-CP-05

+ PERFORMANCE RATINGS

190 L	HEAT PUMP 3.1	HEATING 3H00	VOLUME OF DHW AT 40°C 256L
270 L	HEAT PUMP 3.2	HEATING 3H30	VOLUME OF DHW AT 40°C 360L

+ DE COMPACTNESS

Fits in any cupboard or kitchen!



+ LONGEVITY

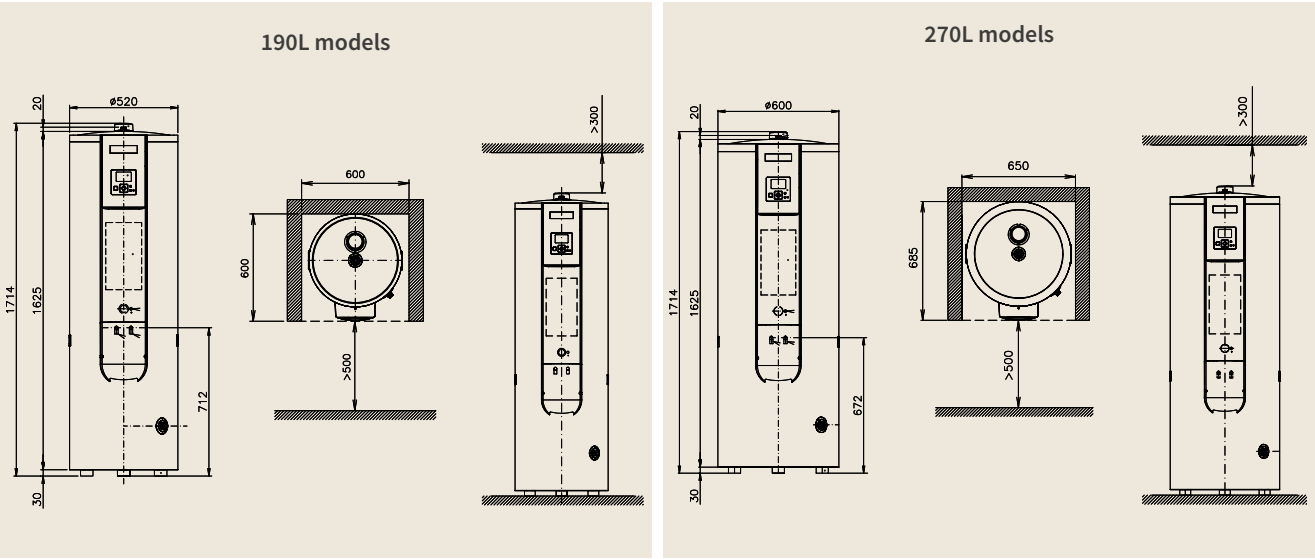
- Stainless steel tank as standard
- Optional titanium active anode (ATW-CP-05) to prevent corrosion

Model	Unit	190-liter version	270-liter version	
Performance				
Heat pump DHW in accordance with EN16147 (190L; L cycle/270L; XL cycle)	-	3.1	3.2	
Seasonal energy efficiency nwh (190L; L cycle/270L; XL cycle)	%	125	129	
DHW energy rating	-	A+	A+	
DHW temperature without electrical resistance/with electrical resistance	°C	55 / 75		
Heating temperature in accordance with EN16147	h:mn	3h00	3h30	
Max. usable volume of water at 40°C in acc. with EN16147 / V40td	L	256 / 286	360 / 408	
Filling profile in acc. with EN16147	-	L	XL	
Tank	Unit	TAW-190RHC	TAW-270RHC	
Capacity	L	190	270	
DHW connections	Inches	3/4" M		
FLARE cooler connections	Inches	1/4" - 3/8"		
Tank material	-	Stainless steel		
Electrical element	kW	1.64		
Tank dimensions (H × Ø × D)	mm	1714 x 520 x 597	1714 x 600 x 681	
Weight	kg	53	62	
Pes/UA	W/W/K	20.00 / 1.77	23.00 / 1.92	
Outdoor unit	Unit	RAW-35RHC		
Operating range	°C	-15~+37		
Average recovered heating capacity	kW	3.5		
Min./max. fridge length/max. drop	m	5 - 20/10		
Max. current	A	7.9		
Pressure level at 1m/Acoustic pressure	dB(A)	-/63		
Dimensions (HxWxD)	mm	548 x 841 x 335		
Weight	kg	32.5		
Quantity of fluid	kg	1		
Refrigerant	-	R32		
Electrical connections		3 options		
Power supply	-	By the tank	By the unit	Shared tank + power unit
Max. current	A	7.4	7.9	15.4
Cable section (mm²)/max. length (m) *	-	3 x 1.5/20	3 x 1.5/20	3 x 2.5/20
Indoor/Outdoor connection (protected)	mm²	3 x 0.75	3 x 0.75	3 x 0.75
Retail price per unit excluding taxes		Subject to the DESP, category II		
190/270l tank		TAW-190RHC	TAW-270RHC	
Outdoor unit		RAW-35RHC		
Total price for the tank + outdoor unit				

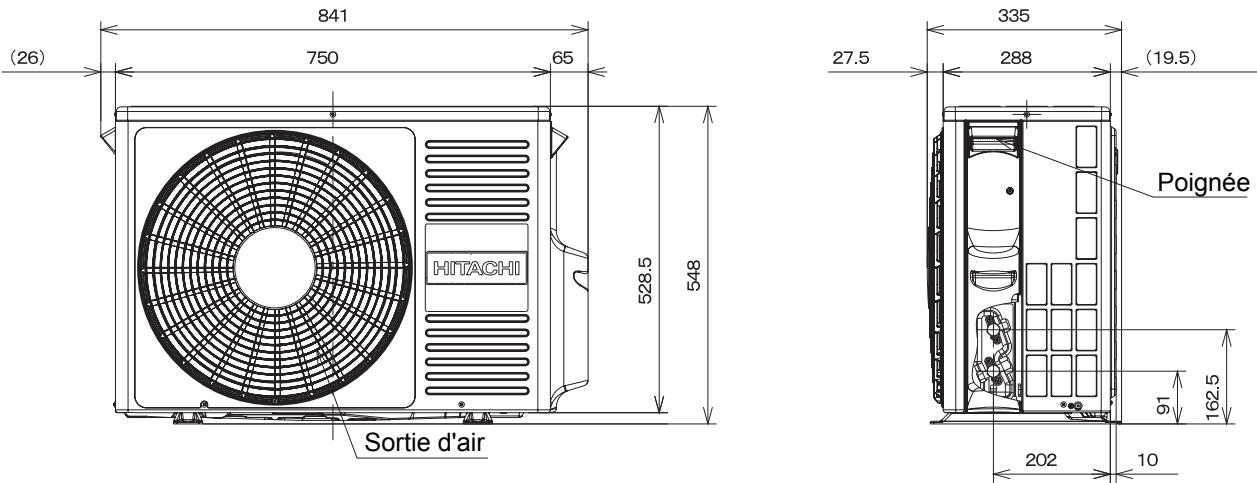
* Sections given for reference purposes only. Compliant with the applicable electrical standards.

Yutampo R32 - Prepare your construction site

1. How much space do I need for my tank?



2. How much space do I need for my outdoor unit?



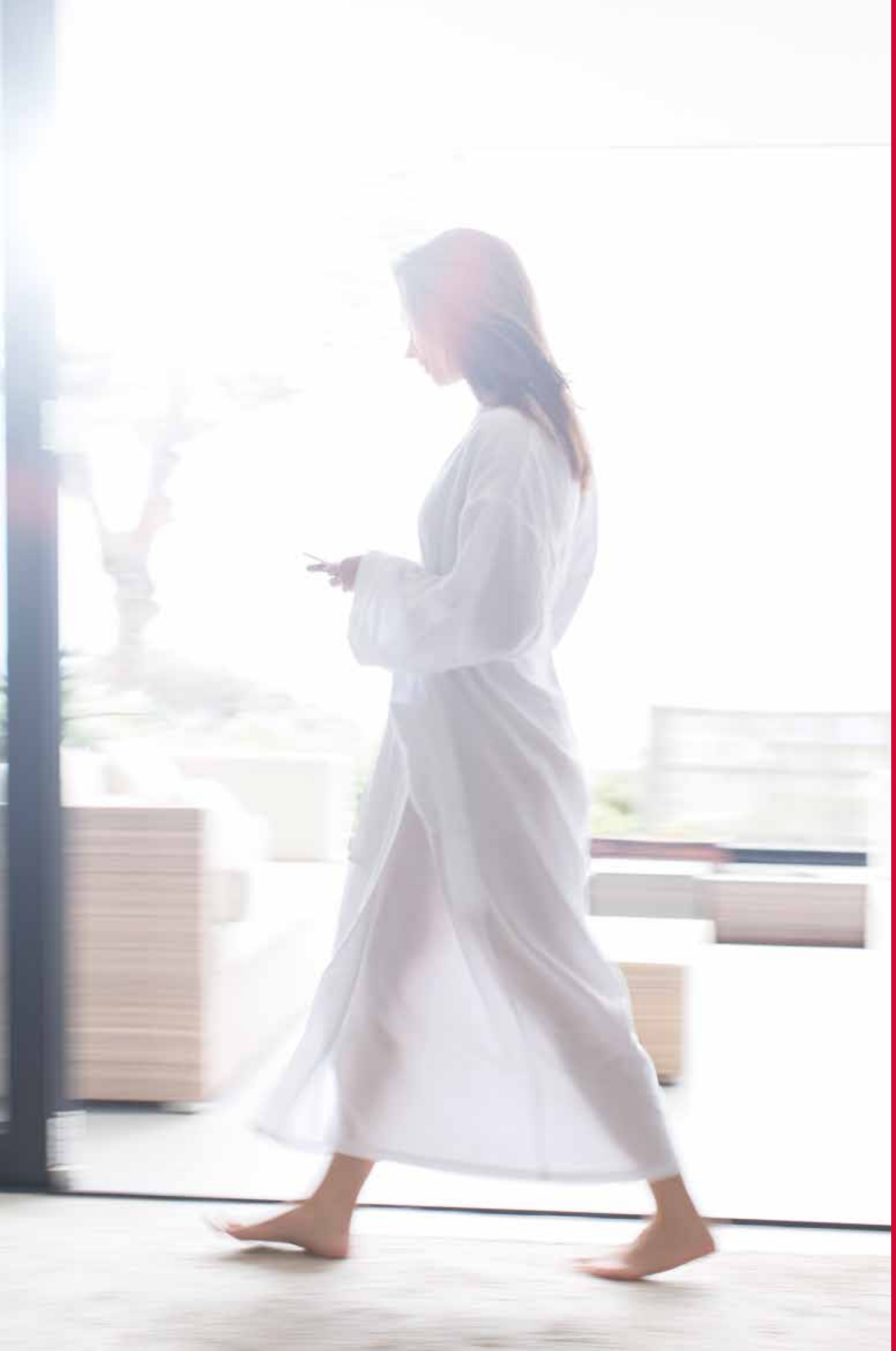
3. Which hydraulic and cooling connections are required?

Hydraulic features	Unit	
DHW connections	inches	3/4" M
Cooling properties		
FLARE cooler connections	inches	1/4" - 3/8"

4. Which electrical connection should I provide?

Please note that these sections and guards are provided for intensities with electrical resistances. Data provided as a guide, please refer to the applicable electrical standard.

Electrical connections	Unit	3 options		
Power supply	-	By the tank	By the unit	Shared tank + power unit
Max. current	A	7.4	7.9	15.4
Cable section (mm²) / max. length (m)	-	3G1.5 / 20	3G1.5 / 20	3G4 / 20
Indoor/Outdoor connection (protected)	mm²	3 x 0.75	3 x 0.75	3 x 0.75
Protection	A	10	10	20





Chillers

	Capacity range in cooling mode (kW)										Types of compressor	Refrigerant
Samurai S Reversible chiller  Condensation to air	An 11.2 -17.8 kW unit		Combination of several chillers in cascade 72.00 kW								Rotary Technology	R410a (available up to the end of 2026)
Samurai M Reversible chiller  Condensation to air			One unit 43 - 248 kW				Combination of several chillers in cascade 1.020 kW				Scroll Inverter	R454B 
Samurai L Reversible chiller  Condensation to water			One unit 140 - 250 kW				Combination of several units in cascade 2,000 kW				Hitachi modular TWIN screw	R134a (available up to the end of 2026) or R513A 

 One unit
  Modular concept: multiple units with a cascading connection

Samurai S

Reversible water-to-air condensation unit - Rotary Inverter Compressor
11.2 to 17.8 kW (R410A)

SEER
4.40

SCOP
4.02

PLUG
&
PLAY

MOD
BUS



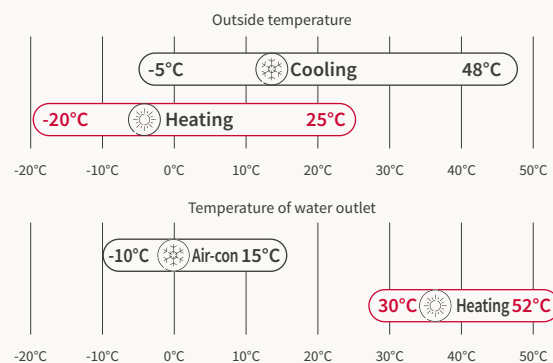
EASY TO INSTALL

Plug & Play design

- Specifically designed for small-scale projects.
- Out of the box.
- Includes all components necessary for the proper hydraulic functioning of the installation (see list opposite).
- Modbus included as standard.

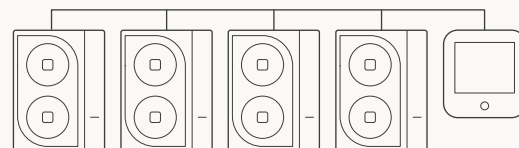


APPRAISAL

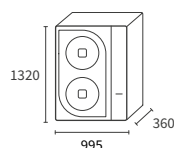


FLEXIBLE INSTALLATION

- **Static pressure available:** Each unit has 30 Pa of static pressure available as standard.
- **Modular design:** onboard controls to operate up to 4 units in a cascading system.



Outdoor units



RHMA-4AVN
RHMA-5AVN
RHMA-6AVN
RHMA-7AVN

Hydraulic equipment included as standard

Factory-mounted



Fixed speed pump (expansion tank not included)



Flow controller

Supplied separately



Pressure relief valve



Hydraulic filter



Automatic filling valve

Compatible controls and accessories

Control included as standard



Separate wired remote control

Accessory included as standard



Neoprene anti-vibration pads

Optional accessories ordered separately.



Master-slave connection kit
Ref.: CHL-MOD-02

Included in the kit:
Temperature sensor + wire + connector
CPLG tube with NPT 1/2"
NPT 3/8 cable gland
Probe sleeve

Model	Unit	RHMA-4AVN 11.2 kW	RHMA-5AVN 14.3 kW	RHMA-6AVN 16.0 kW	RHMA-7AVN 17.8 kW
Performance, cooling					
Capacity Cooling	kW	11.20	14.30	16.00	17.80
Absorbed capacity cooling	kW	4.01	5.28	5.74	6.95
EER	-	2.80	2.70	2.80	2.56
SEER	-	4.32	4.32	4.40	3.87
Seasonal energy efficiency rating cooling η_s, c	%	170	170	178	174
Sound pressure level Cooling Standard/Low	dB(A)	68/64	70/65		74/69
Sound pressure level 1m Cooling Standard/Low	dB(A)	54/52	55/53		59/54
Sound pressure level 10m Cooling Standard/Low	dB(A)	40/38	42/40		46/42
Operating ranges at ext. temp°. - Cooling mode	°C	-5~+48			
T° at water outlet – Cooling mode	°C	-10~+15			
Performance, heating					
Capacity heating	kW	10.90	13.10	15.40	18.50
Absorbed capacity heating	kW	3.70	4.30	4.70	6.30
Capacity Heating at -7°C (water outlet 50°C)	kW	7.15	7.89	10.36	12.35
Capacity Heating at -15°C (water outlet 45°C)	kW	5.82	4.99	8.63	10.63
Heat pump	-	3.00	3.06	3.29	2.94
SCOP	-	3.50	3.60	4.02	3.90
Seasonal energy efficiency rating heating η_s, h	%	137	140	160	155
Sound pressure level Heating Standard/Low	dB(A)	69/66	71/67		74/70
Sound pressure level 1m Heating Standard/Low	dB(A)	55/54	56/55		59/55
Sound pressure level 10m Heating Standard/Low	dB(A)	41/39	43/42		46/43
Operating ranges at ext. temp°. - Heating mode	°C	-20~+25			
T° at water outlet – Heating mode	°C	+30~+52			
Dimensions and weight					
Overall dimensions (height x length x width)	mm	1320 x 995 x 360			
Net weight	kg	126	128	141	
Compressor					
Type of compressor	-	Inverter DC rotary unit			
R410A prefilled on delivery	kg	2.8	3.3	3.9	4
Fans					
Number of fans (BLDC/54)	-	2			
Airflow	m³/h	2500~6600			
Total power of fans	kW	0.18			0.22
External static pressure	Pa	0/30Pa			
Hydraulic data					
Type of exchanger	-	Brazed plated exchanger			
Rated water flow Heating/Cooling	l/s	0.52 / 0.56	0.66 / 0.67	0.75 / 0.79	0.82 / 1.03
Min./max. flow	l/s	1.2 / 2.7	1.2 / 3.4	1.6 / 3.8	1.6 / 4.3
Min. water capacity of the installation – Comfort (Cooling mode)	l	37	48	53	59
Min. water capacity of the installation – Process (Cooling mode)	l	73	93	104	116
Diameter of hydraulic connection	inches	1"			
Expansion vessel – not included, to be provided by the installer	L	To be sized by facility			
Pump – HP	kW	0.37			
Electrical data					
Supply voltage	V/Ph/Hz	230/1/50			
Maximum current	A	24	33		36

Note: The power and performance are specified without the pump. Rated cooling conditions: water cycle: 7/12°C – external temperature: 35°C. Rated heating conditions: water cycle: 40/45°C – external temperature: 6°C WB. Seasonal energy performance is specified in accordance with European standard EN-14511/ 18.

Samurai M

Reversible water-cooled condensation to air unit - Scroll Inverter compressor
43 to 248 kW (R454B)

SEER
4.93SCOP
3.75RE 2020
READY

IDEAL FOR THE PLANET

R454B fluid

- For your new RE2020 projects.
- GWP: 466.



HIGH-PERFORMANCE

Ultra-equipped unit in standard version

The following items are included as standard:

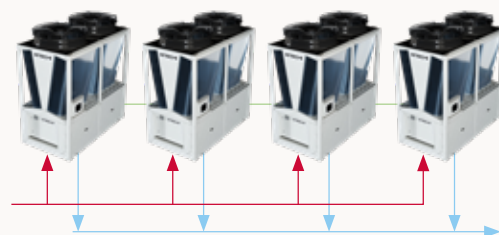


- Cold and hot operation,
- Available pressure: 50 Pa,
- Master/slave function,
- MODBUS/BACNET gateways,
- Anticorrosion protection on the wings.

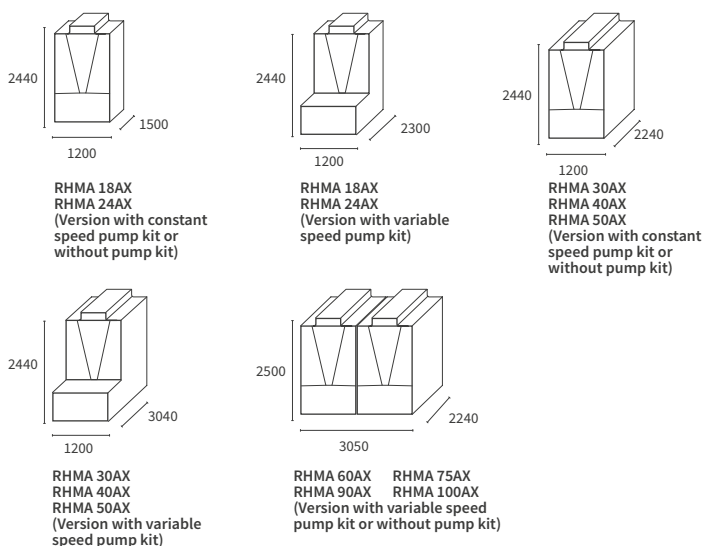


FLEXIBLE INSTALLATION

- **Configurable for cooling only** by changing the DIP switches.
- **Modular concept:** The onboard control system allows for cascade operation of up to 32 units for sizes 18 to 50 and up to 16 units for sizes 60 to 100.



Outdoor units



Optional accessories ordered separately.



Separate wired remote control
Ref.: CHL-CON-01



Master-slave connection kit
Ref.: CHL-MOD-01
Included in the kit:
Flow controller
Temperature sensor + wire + connector
CPLG tube with NPT 1/2"
NPT 3/8 cable gland
Probe sleeve

Model	Unit	RHMA 18AX 43 kW	RHMA 24AX 58 kW	RHMA 30AX 76 kW	RHMA 40AX 96 kW	RHMA 50AX 119 kW	RHMA 60AX 155 kW	RHMA 75AX 184 kW	RHMA 90AX 216 kW	RHMA 100AX 248 kW
Performance, cooling										
Capacity Cooling	kW	43	58	76	96	119	155	184	216	248
Absorbed capacity cooling	kW	14.24	19.73	23.17	30.38	38.14	46.97	57.14	66.06	75.84
EER	-	3.02	2.94	3.28	3.16	3.12	3.30	3.22	3.27	3.27
SEER	-	4.78	4.88	4.43	4.93	4.47	4.69	4.49	4.74	4.78
Seasonal energy efficiency rating cooling η_s , c	%	188.0	192.0	174.0	194.0	176.0	185.0	177.0	187.0	188.0
SEPR MT	-	3.76	3.77	3.91	3.53	3.58	2.79	2.70	3.78	3.70
SEPR HT	-	6.09	6.34	5.95	5.68	6.20	6.23	6.19	6.27	6.29
Sound pressure level Cooling Standard/Low	dB(A)	81/75	83/78	82/78	84/79	85/81	87/82	88/83	88/83	89/84
Sound pressure level 1m Cooling Standard/Low	dB(A)	66/61	68/63	66/62	68/64	69/65	70/66	71/66	72/67	73/68
Sound pressure level 10m Cooling Standard/Low	dB(A)	51/46	53/48	52/48	54/50	55/51	57/53	58/53	59/54	60/55
Operating ranges at ext. temp°. - Cooling mode	°C	-17.8~+48								
T° at water outlet – Cooling mode	°C	-12~+20								

Performance, heating

Capacity heating	kW	50	61	88	103	132	165	194	235	261
Absorbed capacity heating	kW	16.28	19.79	26.86	32.27	44.77	49.80	59.58	72.19	80.36
Capacity Heating at -7°C (water outlet 45°C)	kW	34.08	42.84	58.44	66.98	88.30	111.23	134.26	159.99	179.10
Capacity Heating at -15°C (water outlet 40°C)	kW	27.00	34.19	45.44	53.41	69.54	86.68	99.90	124.19	149.28
Heat pump	-	3.05	3.06	3.29	3.20	2.95	3.31	3.25	3.26	3.25
SCOP	-	3.73	3.71	3.71	3.72	3.75	3.72	3.71	3.72	3.71
Seasonal energy efficiency rating heating η_s , h	%	146.0	146.0	145.0	146.0	147.0	146.0	146.0	146.0	145.0
Sound pressure level Heating Standard/Low	dB(A)	81/75	83/78	82/78	84/79	85 / 81	87/82	88/83	88 / 83	87/82
Sound pressure level 1m Heating Standard/Low	dB(A)	68/63	70/65	69/65	70/65	74/68	71/66	72/67	73/68	74/68
Sound pressure level 10m Heating Standard/Low	dB(A)	53/48	55/50	55/51	56/51	60/55	58/53	59/54	60/54	61/55
Operating ranges at ext. temp°. - Heating mode	°C	-15~+25								
T° at water outlet – Heating mode	°C	+25~+55								

Dimensions and weight

Height	mm	2440					2500			
Width	mm	1200					3050			
Length	mm	1500					2240			
Length (constant pump)	mm	1500					-	-	-	-
Length (variable flow pump)	mm	2300					2240			
Net weight (without pump/with pump)	kg	587 / 782	610 / 805	893 / 1105	920 / 1132	999 / 1211	1922 / 2115	2003 / 2196	2235 / 2428	2316 / 2509

Compressor**Subject to the DESP, category II**

Type of compressor	-	Scroll DC Inverter + Scroll								
Compressor number	-	2		3		4	5	6	7	8
Adjustment range	%	33~100	25~100	20~100	15~100	12~100	10~100	8~100	7~100	6~100
R454B prefilled on delivery	Circuit 1	kg	8.0	10.8	7.5	8.3	10.0	8.3	9.7	10.0
	Circuit 2	kg	-	-	8.5	9.7	10.0	9.0	9.5	10.0
	Circuit 3	kg	-	-	-	-	-	9.0	9.5	10.0
	Circuit 4	kg	-	-	-	-	-	-	-	10.0

Fans/Air exchangers

Air heat exchanger	-	Cu/Al blade exchanger								
Number of fans (type EC)	-	1		2		3		4		
Airflow	m³/min	324.4	349.4	541.1	604.9	702.5	1024.5	1132.4	1370.1	1510.0
Total fan power consumption	kW	0.87	1.06	0.95	1.17	1.61	2.41	2.97	3.27	3.95
Static pressure available	Pa	50								

Hydraulic data

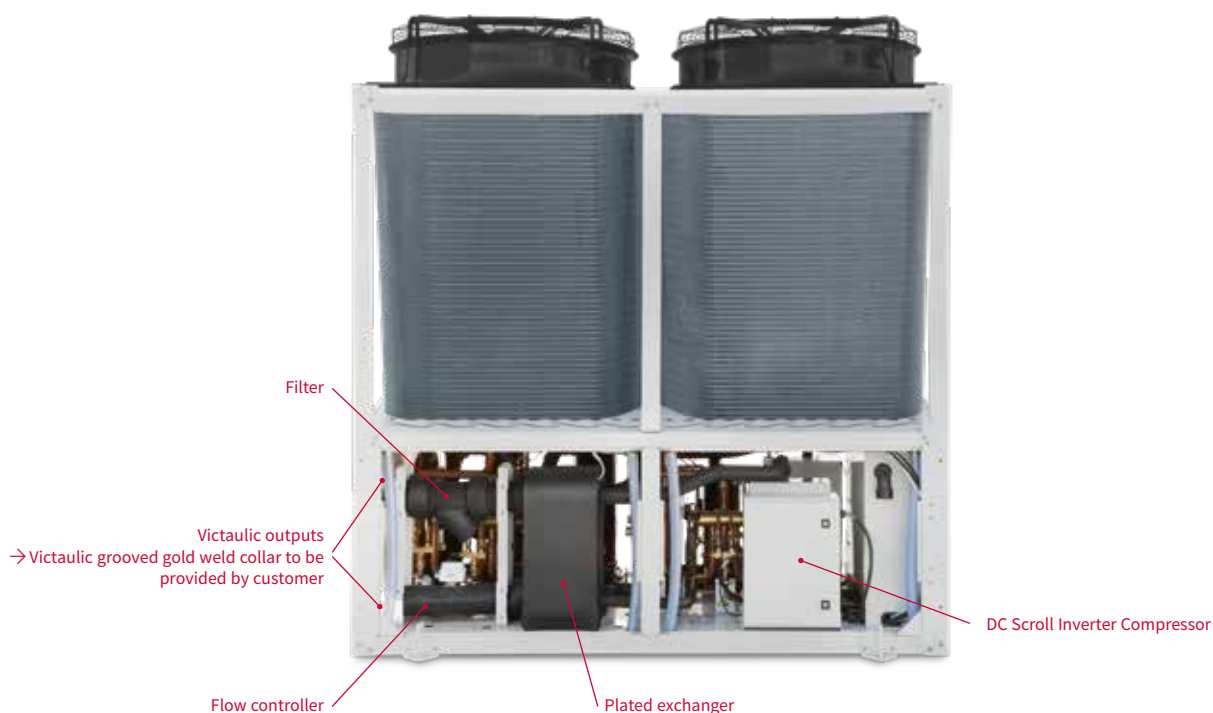
Air heat exchanger	-	Braze plated exchanger								
Rated water flow	l/s	2.2	2.9	3.8	4.8	6.0	7.4	9.1	10.5	11.9
Min./max. flow	l/s	1.1 ~ 2.8	1.4 ~ 3.7	1.9 ~ 5.0	2.4 ~ 6.2	3.0 ~ 7.8	3.7 ~ 11.1	4.5 ~ 13.6	5.3 ~ 15.8	6.0 ~ 17.9
Min. water capacity (without pump kit)	l	7	10	14	16	16	27	29	32	34
Min. water capacity of the installation – Comfort (Cooling mode)	l	142	191	251	317	393	512	607	713	818
Min. water capacity of the installation – Process (Cooling mode)	l	280	377	494	624	774	1008	1196	1404	1612
Load loss in the exchanger	kPa	30	30	28	32	36	23	29	41	38
Pump type	-	Fixed or variable flow pump (depending on model)								
Diameter and type of hydraulic connection	inches	2" Victaulic (Victaulic slotted or soldered sleeve not included)			2 ½" Victaulic (Victaulic slotted or soldered sleeve not included)			4" Victaulic (Victaulic slotted or soldered sleeve not included)		

Electrical data

Supply voltage	V/Ph/Hz	400/3/50								
Maximum current	A	32.0	35.1	56.3	66.6	79.3	110.8	123.5	155.0	167.7

Note: The power and performance are specified without the pump. Rated cooling conditions: water cycle: 7/12°C – external temperature: 35°C. Rated heating conditions: water cycle: 40/45°C – external temperature: 6°C WB. Seasonal energy performance is specified in accordance with European standard EN-14511 (18 EN-14825).

Samurai M



Standard functions:

- Reversible mode,
- Water outlet temperature up to -12°C and outdoor temperature up to -17.8°C in cooling mode,
- Master/slave operation,
- Modbus & Bacnet gateway,
- Several languages available: EN, FR, DE, IT, ES, PL, RU, etc.

Standard components:

- Electronic pressure regulators,
- Flow controller,
- Filter,
- Victaulic outlets (Victaulic grooved sleeve to be welded, to be provided by the customer),
- EC inverter fans,
- Corrosion protection for fins,
- Electronic starter,
- Double discharge valve,
- Expansion tank (included in the Variable Speed Pump Kit options).

Factory settings possible	Option reference
Battery protection grid	G
Low noise level	N
Simple pump kit - fixed speed	F (Kit not available for sizes from 60 to 100 hp)
Simple pump kit - variable speed	V

	STANDARD MODELS WITHOUT PUMP KIT	MODELS 18 TO 50		MODELS 60 TO 100
		Fixed speed pump	Variable speed pump kit	Variable speed pump
Air purifier	x	●	●	●
Stop Valve	x	x	●	●
Bleed valve	x	x	●	●
Filter	●	○ Mounted locally	●	●
Flow controller	●	○ Mounted locally	●	●
Expansion vessel	x	x	● 18/24: 12 L 30/40/50: 18 L	● 60 to 100: 2 x 24 L
Available pressure	-	18 to 24: 17.5 m CE 30 to 50: 18.7 m CE	18 to 24: 24 m CE 30 to 50: 30 m CE	60 to 100: 35 m CE

● Factory-fitted in the product ○ Supplied with unit x Not included

Samurai L

Chilled water unit (reversible option) water-cooled - Modulating Twin Screw compressor
140 to 250 kW (R513A or R134A)

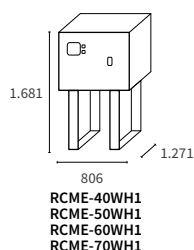


IDEAL FOR THE PLANET

R513A fluid

- GWP = 629
- **Non-flammable: Safety rating A1.** It can be safely installed inside the building.

Outdoor units



The most compact on the market!

- **1m²** footprint for **250 kW** of cold delivered.
- It fits on a pallet, in a freight elevator, and can pass through a door.
- Combination of up to **8 modules** is possible: **8m²** footprint **2 000 kW** of cold delivered.



APPRAISAL

Precise power levels and temperatures

Hitachi modular TWIN screw compressor:

Continuous power regulation system from 25% to 100%. The power of the equipment therefore always corresponds to demand.

→ for comfort (commercial) and process (industrial) applications.



FLEXIBLE INSTALLATION

2 installation modes

- **Standard mode:** Constant outlet water temperature > all compressors operate at the same load.
- **High energy efficiency mode:** Smart control of the compressor On/Off function to optimize the system's energy performance.

Options and accessories

R513A FLUID

Model	Unit	RCME-40WH1 140 kW	RCME-50WH1 180 kW	RCME-60WH1 220 kW	RCME-70WH1 250 kW
Performance, cooling					
Capacity Cooling	kW	140	180	220	250
Absorbed capacity cooling	kW	29.4	38.1	47.7	53.9
EER	-	4.76	4.72	4.61	4.64
SEER	-	5.10	5.25	5.28	5.30
Seasonal energy efficiency rating cooling η_s , c	-	201.0	207.0	208.0	209.0
SEPR MT	-	4.65	4.62	4.65	4.67
SEPR HT	-	7.06	6.54	7.20	7.24
Sound pressure level* Cooling	dB(A)	60	61	62	63
Sound power level Cooling	dB(A)	88	89	90	91
Temp° at water outlet – Cooling mode (evaporator)	°C	+5~+15 standard/-10~+5 (low temperature option) / +15~+25 (high temperature option)			
Temp° at water outlet – Cooling mode (condenser)	°C	+22~+47			

Performance, heating

Capacity in Heating mode (option)	kW	161.9	208.5	256.2	290.8
Absorbed capacity in Cooling mode (optional)	kW	35.40	45.90	57.40	64.90
Heat pump (optional)	-	4.57	4.54	4.46	4.48
SCOP LT (optional)	-	5.70	5.66	5.55	5.58
Seasonal energy efficiency rating heating η_s , h	%	161.6	160.4	157.6	158.0
SCOP MT (optional)	-	4.24	4.21	4.14	4.15
Sound pressure level* Heating	dB(A)	60	61	62	63
Sound power level Heating	dB(A)	88	89	90	91
Temp° at water outlet – Heating mode (condenser)	°C	+35~+57 (heat pump option)			
Water outlet temperature - Hot mode (evaporator)	°C	+5~+25			

Dimensions and weight

Dimensions (height x width x length)	mm	1681 x 806 x 1271			
Net weight	kg	860	950	1040	1075

Compressor**Subject to the DESP, category II**

Type of compressor	-	Modular Twin semi-sealed screw			
Compressor number	-	1			
Circuit number	-	1			
Adjustment range	%	25~100			
Refrigerant	-	R513A			
Quantity of refrigerant	kg	15	17.5	22.5	28

Hydraulic data

Type of exchanger (condenser)	-	Braze plated exchanger			
Type of exchanger (evaporator)	-	Braze plated exchanger			
Rated water flow (evaporator/condenser)	m³/h	24.1 / 29.1	31.0 / 37.5	37.8 / 46	43.0 / 52.3
Min. water flow (evaporator)	m³/h	15.1	19.4	23.7	26.9
Max. flow (evaporator/condenser)	m³/h	52.3 / 63.3	67.3 / 81.6	82.3 / 83.8	83.8 / 83.8
Min. water volume	m³	0.51	0.65	0.80	0.90
Loss of water load (evaporator/condenser)	kPa	20.0 / 21.6	21.5 / 24.1	19.7 / 26.9	25.0 / 28.2
Diameter and type of hydraulic connection	-	2,1/2" Victaulic			
Quantity of hydraulic connections	-	1x input, 1x output per exchanger			

Electrical data

Supply voltage	V/Ph/ Hz	400/3/50 + N			
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Note: The power and performance are specified without the pump. Rated cooling conditions: water cycle: 7/12°C - Condensation temperature: 35/30°C.
 Rated heating conditions: water cycle: 40/45°C. Seasonal energy performances are announced in accordance with European standard EN-14825.** Acoustic power is announced at 10m, in front of the unit.

Available up to the end of 2026

R134A FLUID

RCME-40WH1 140 kW	RCME-50WH1 180 kW	RCME-60WH1 220 kW	RCME-70WH1 250 kW
140	180	220	250
28.0	37.0	45.0	51.0
5.00	4.96	4.85	4.87
5.27	5.46	5.51	5.52
208.0	215.4	217.0	218.0
4.88	4.85	4.89	4.90
7.41	6.85	7.57	7.59
60	61	62	63
88	89	90	91
+5~+15 standard/-10~+5 (low temperature option) / +15~+25 (high temperature option)			
+22~+50			

160.0	205.0	252.0	287.0
33.40	43.30	54.10	61.20
4.79	4.76	4.67	4.69
5.90	5.86	5.75	5.78
174.0	173.0	170.0	170.0
4.42	4.39	4.32	4.33
60	61	62	63
88	89	90	91
+35~+60 (heat pump option)			
+5~+25			

1681 x 806 x 1271			
860	950	1040	1075

Subject to the DESP, category II

Modular Twin semi-sealed screw			
1			
1			
25~100			
R134A			
19	20	24	29

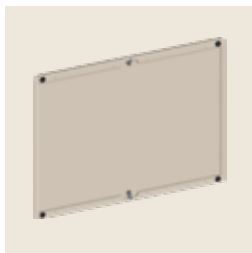
Braze plated exchanger			
Braze plated exchanger			
24.1 / 28.9	31.0 / 37.2	37.8 / 45.6	43.0 / 51.8
15.1	19.4	23.7	26.9
52.3 / 62.8	67.3 / 80.9	82.3 / 83.8	83.8 / 83.8
0.51	0.65	0.80	0.90
20.0 / 21.3	21.5 / 23.8	19.7 / 26.4	25.0 / 27.8
2,1/2" Victaulic			
1x input, 1x output per exchanger			

400/3/50 + N			
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Options Samurai L (factory-mounted)

References	Description	RCME-WH1
Unit options		
LN	Low sound level -6dB(A) (Water condensation)	•
SLN	Very low sound level -16dB(A) (Water condensation)	•
PCR	Cable tray & distributor & conduit	•
WOC	Crate packaging	•
HPO	Reversible mode operation (water condensation only)	•
Control options		
PWM	Energy meter	•
MCBC	Regulator for compressor	•
Standard languages included (English, French, Spanish)		Included as standard
LP1	LCD Language pack 1 English, Russian, Finnish	•
LP2	LCD Language pack 2 English, German, Hungarian	•
LP3	LCD Language pack 3 English, Dutch, Polish	•
LP4	LCD Language pack 4 English, Italian, Greek	•
Hydraulic options		
Brine 1	Low water output temperature: +5°C to 0°C	•
Brine 2	Low water output temperature: 0°C to -5°C	•
Brine 3	Low water output temperature: -5°C to -10°C	•
PP	Pressure inlet on the hydraulic network	•
WPN16	Positive pressure (16 bar)	•
HWOT	High water output temperature in Cooling mode (25°C)	•
CH	Tracer (Plated exchanger)	•
WPST	Stainless steel hydraulic pipes	•
Cooling circuit options		
DSV	Double safety valve	•
PSW	Differential water pressure switch	•
SV	Compressor suction valve	•
DV	Compressor return valve	•
SSV	Compressor suction safety valve	•

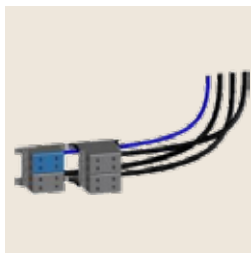
Unit options



Low noise level -6 dB(A)
Samurai L Water condensation.
Ref.: LN



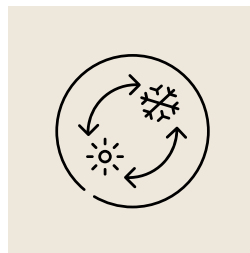
Very low noise level -16 dB(A)
Samurai L Water condensation.
Ref.: SLN



Cable tray & distributor & conduit
Cable tray & distributor & conduit.
Ref.: PCR



Crate packaging
To protect the product during delivery.
Ref.: WOC



Reversible mode operation
RCME-WH1 only.
Ref.: HPO

Control options



Energy meter
Ref.: PWM



Regulator for compressor
Compressor protection in place of standard fuses.
Ref.: MCBC



LCD Language pack
Refs.:
LP1: English, Russian, Finnish.
LP2: English, German, Hungarian.
LP3: English, Dutch, Polish.
LP4: English, Italian, Greek.

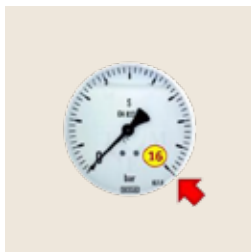
Hydraulic options



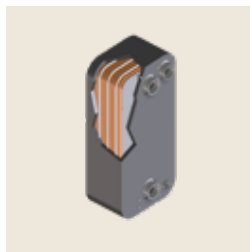
Low water output temperature
Refs.:
Brine 1: +5°C to 0°C
Brine 2: 0°C to -5°C
Brine 3: -5°C to -10°C



Pressure inlet on the hydraulic network
Ref.: PP



Positive pressure (16 bar)
Ref.: WPN16

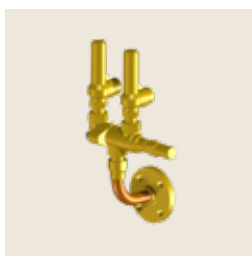


Tracer (Plated exchanger)
Electrical heating installed around the plate-type heat exchanger to protect internal water from freezing at low temperatures and at low water temperatures.
Ref.: CH

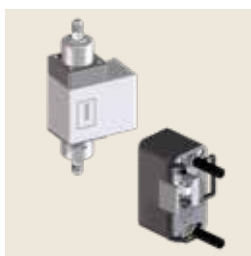


Stainless steel hydraulic pipes
Ref.: WPST

Refrigerant circuit options



Double safety valve
To protect the refrigerant circuits against high-pressure. A single valve is fitted in the factory. The double valve means you can switch to a second valve without having to drain the refrigerant circuit for maintenance operations.
Ref.: DSV



Differential water pressure switch
Ref.: PSW



Compressor suction valve
Ref.: SV



Compressor return valve
Ref.: DV



Compressor suction safety valve
Ref.: SSV

Samurai L accessories (delivered separately)

References	Description	RCME-WH1
CHL-WFS-01	Flow controller	•
CHL-CWP-05	Hydraulic collectors 2 modules	•
CHL-CWP-06	Hydraulic collectors 3 modules	•
CHL-PMM-06	Energy meter (1000A)	•
CHL-PMM-04	Energy meter (200A)	•
CHL-PMM-05	Energy meter (400A)	•
CHL-WST-01	Hydraulic filter 2.1/2"	•
CHL-WST-04	Hydraulic filter 5"	•
CHL-WST-05	Hydraulic filter 6"	•
CHL-BAC-01	BACnet interface	•
CHL-MBS-02	Modbus interface	•
CHL-AVS-05	Spring-loaded anti-vibration terminals (Samurai L water condensation)	•
CHL-FLA-01	Flange connection PN16 2.1/2"	•
CHL-AVR-02	Rubber anti-vibration map	•
CHL-EDV-01	Evaporator side evacuation valve	•



Flow controller

Ref.: CHL-WFS-01



Hydraulic collectors
Samurai L Water
condensation

Refs.:

CHL-CWP-05 (2 modules)
CHL-CWP-06 (3 modules)



Energy meter

Refs.:

CHL-PMM-04 (200A)
CHL-PMM-05 (400A)
CHL-PMM-06 (1000A)



Hydraulic filter

Refs.:

CHL-WST-01 (size 2.1/2")
CHL-WST-04 (size 5")
CHL-WST-05 (size 6")



BACnet interface

Ref.: CHL-BAC-01



Modbus interface

Ref.: CHL-MBS-02



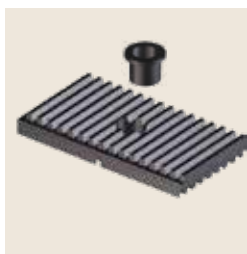
Samurai L water-cooled,
spring-loaded anti-
vibration terminals

Ref.: CHL-AVS-05
(water-cooled)



Flange connection PN16
2.1/2"

Ref.: CHL-FLA-01



Rubber anti-vibration map

Samurai L Water condensation.

Ref.: CHL-AVR-02



Evaporator side
evacuation valve

Ref.: CHL-EDV-01



Notes

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