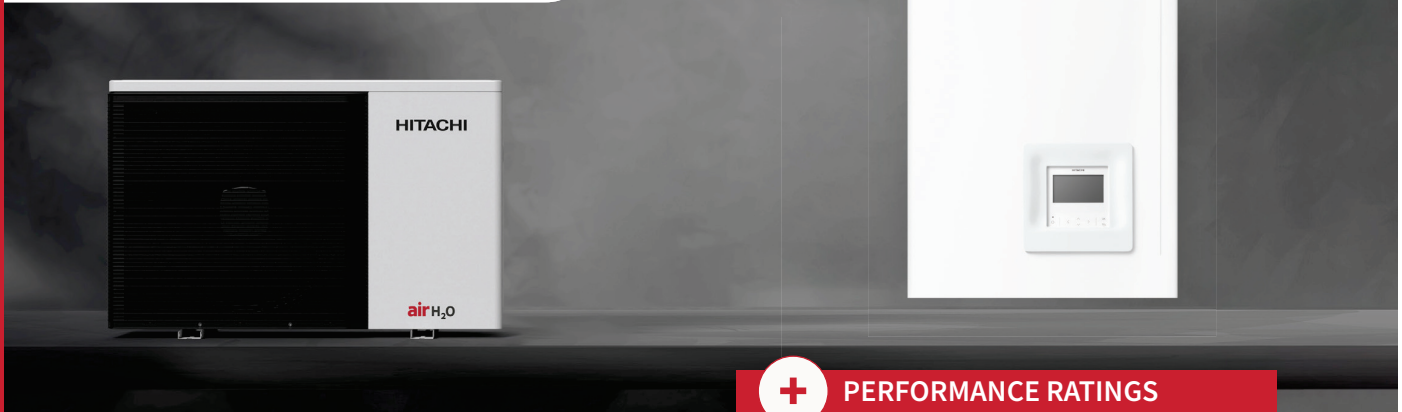
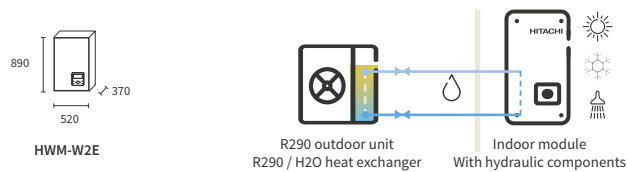


# airH<sub>2</sub>O 800 H

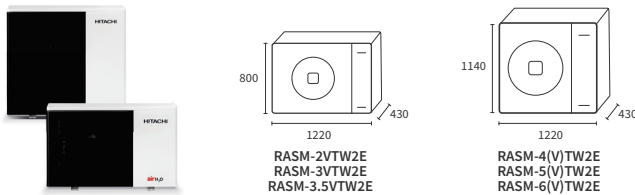
Air/Water Split hydraulic heat pump, 75°C, without DHW  
4 to 14 kW (R290)



## Indoor units



## Outdoor units

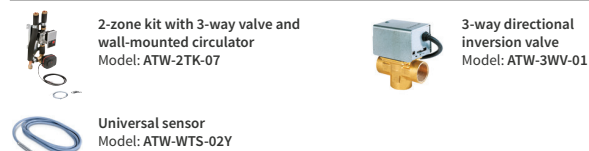


## Compatible controls and accessories

### Controls and connectivity



### Hydraulic accessories



## + PERFORMANCE RATINGS

- 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 features (2-zone control, boiler backup, remote DHW management, SmartGrid-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 and play:** No refrigerant handling and no opening of the outdoor unit for installation or commissioning.
- CSNET Home PRO includes the following as standard:** View the status of your devices remotely and adjust their settings in real time.
- NFC function:** Create / copy / paste / duplicate a configuration directly from your smartphone.

## + EASY TO CONTROL

- Controller:** A modern, stylish LCD screen combined with ease of use for both home users and professionals.
- CSNet Home included as standard:** Control your comfort from a distance at no extra charge.

### Options



## R290 REFRIGERANT

Model	Unit	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW
<b>Performance, heating</b>							
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 $\eta_s$ (35°C) Single/Tri <sup>(1)</sup>	%	177	184		178		179
Seasonal heating energy efficiency $\eta_s$ (55°C) Single/Tri <sup>(1)</sup>	%	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 (HxLxD)	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)	m <sup>3</sup> /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/50 Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Intensity max with auxiliary resistance	A	26.7				
	Cable section (mm <sup>2</sup> ) / max. length (m) <sup>(2)</sup>	-	3 x 6/30				
3-PHASE 400V compressor	Intensity max with auxiliary resistance	A	9.3				
	Cable section (mm <sup>2</sup> ) / max. length (m) <sup>(2)</sup>	-	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 <sup>(3)</sup>	dB(A)	29 / 55	29 / 56	29 / 57	27 / 53	28 / 53	
Dimensions (HxLxD)	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**

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/50 Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz		
SINGLE-PHASE 230V	Max. current	A	14.2	17.7	20.7	29.2	
	Cable section (mm <sup>2</sup> ) / max. length (m) <sup>(2)</sup>	-	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 <sup>2</sup> ) / max. length (m) <sup>(2)</sup>	-	-			5 x 4/16	
Indoor/Outdoor connection (protected)	mm <sup>2</sup>	2 x 0.75					

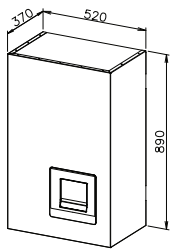
**Retail price per unit excluding taxes**

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					

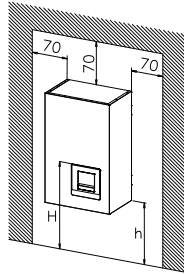
<sup>(1)</sup> = Single<sup>(2)</sup> Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825.<sup>(3)</sup> Sections given for reference purposes only. Compliant with the applicable electrical standards.<sup>(4)</sup> 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?



Models 4 to 14 kW



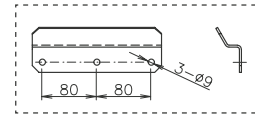
Models 4 to 14 kW

**H = 1250 mm** recommended for easy access to the controller

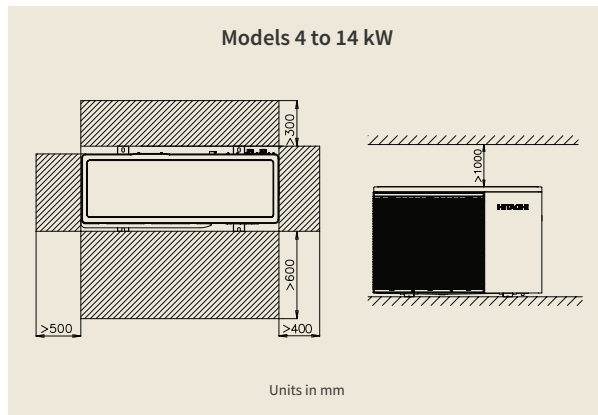
**h = 350 mm min.** for installing shut-off valves and connections

Units in mm

### Wall mounting

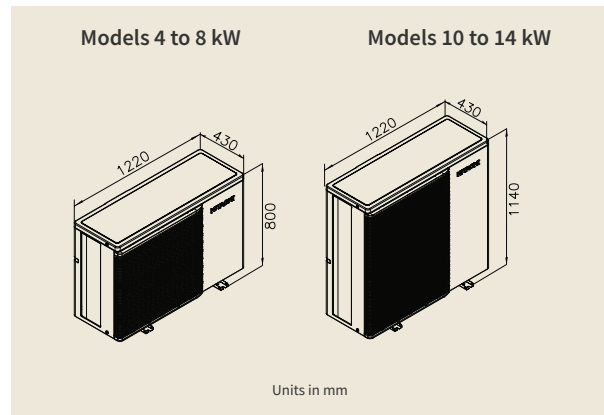


## 2. How much space do I need for my outdoor unit?



Models 4 to 14 kW

Units in mm



Models 4 to 8 kW

Models 10 to 14 kW

Units in mm

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

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

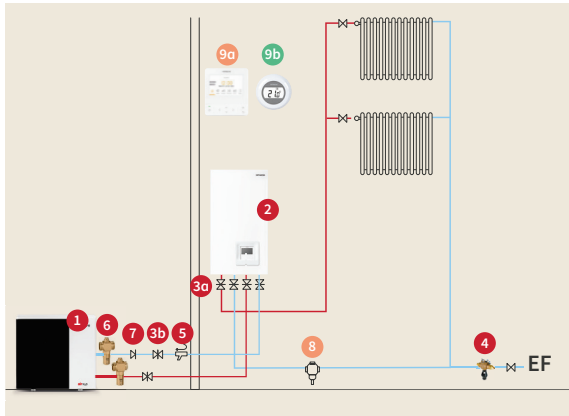
# Hydraulic setups

## airH2O 800 H Provide high-temperature antifreeze valves and filter screens.


Your diagrams in just a few clicks  
at [yutaki-applications.com](http://yutaki-applications.com)

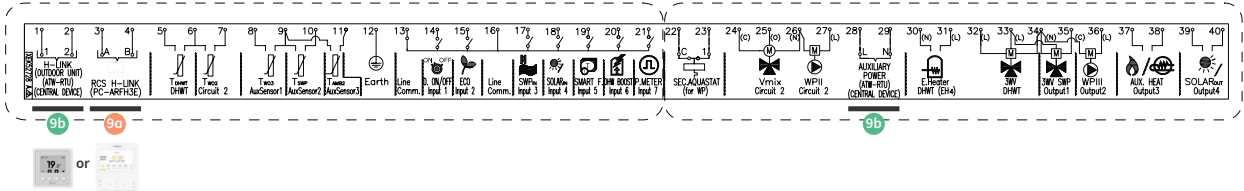


### 1 control zone - radiators disconnected (included)

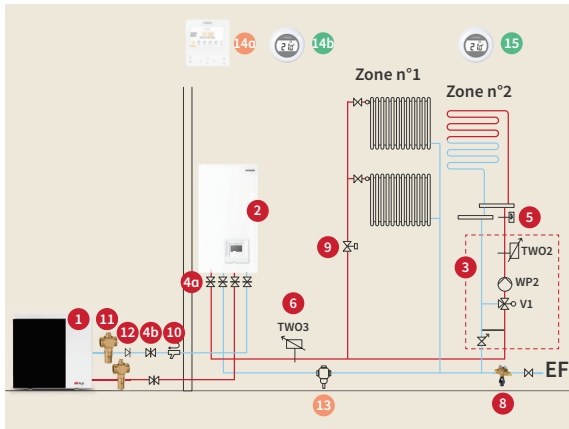


<b>1</b>	Outdoor unit	<b>Mandatory</b>	Hitachi supplied
<b>2</b>	hydraulic module: expansion tank and decoupling bottle included	<b>Mandatory</b>	Hitachi supplied
<b>3a</b>	Isolating valve	<b>Mandatory</b>	Hitachi supplied (with module)
<b>3b</b>	Isolating valve	<b>Mandatory</b>	Not supplied
<b>4</b>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


-  - Caution: ensure that the heat pump circulator can handle network load losses and manage the nominal flow required by the heat pump. Also ensure that the included secondary pump is sufficient for the network.
- Ensure the minimum volume required by the heat pump is sufficient, otherwise 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 for information purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**



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



<b>1</b>	Outdoor unit	<b>Mandatory</b>	Hitachi supplied
<b>2</b>	Hydraulic module (6L expansion tank supplied)	<b>Mandatory</b>	Hitachi supplied
<b>3</b>	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	<b>Mandatory</b>	Hitachi option (ATW-2TK-07)
<b>4a</b>	Isolating valve	<b>Mandatory</b>	Hitachi supplied (with module)
<b>4b</b>	Isolating valve	<b>Mandatory</b>	Not supplied
<b>5</b>	Safety aquastat for underfloor heating	<b>Mandatory</b>	Hitachi option (ATW-AQT-01)
<b>6</b>	Universal temperature sensor	<b>Mandatory</b>	Hitachi option (ATW-WTS-02Y)
<b>8</b>	Disconnecter	<b>Mandatory</b>	Not supplied
<b>9</b>	Motorized valve	<b>Mandatory (if refresh)</b>	Not supplied
<b>10</b>	Screen filter (0.7 mm mesh) for heat exchanger	<b>Mandatory</b>	Not supplied
<b>11</b>	Anti-freeze valves	<b>Mandatory</b>	Not supplied
<b>12</b>	R290 safety valve	<b>Mandatory</b>	Hitachi supplied
<b>13</b>	Dirt separator	<b>Recommended</b>	Not supplied
<b>14a</b>	Wired compensation thermostat zone 1: remote PC-ARFH3E	<b>Recommended</b>	Hitachi supplied (with module)
<b>14b</b>	Wireless compensation thermostat zone 1	<b>Option</b>	Hitachi option (ATW-RTU-07)
<b>15</b>	Compensation thermostat zone 2	<b>Option</b>	Hitachi option ATW-RTU-06 if RTU-07 zone 1

-  - Caution: ensure that the heat pump circulator can handle network load losses and manage the nominal flow required by the heat pump. Also ensure that the included secondary pump is sufficient for the network.
- Ensure the minimum volume required by the heat pump is sufficient, otherwise 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 for information purposes only. Installation will be carried out in compliance with applicable legislation (DTU, professional standards).**

