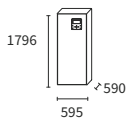


airH₂O 600 S Combi

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

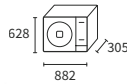


Indoor units

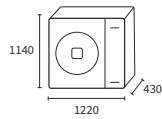


RWD-1.5RW3E-220S RWD-3.5RW3E-220S
RWD-2.0RW3E-220S RWD-4.0RW3E-220S
RWD-2.5RW3E-220S RWD-5.0RW3E-220S
RWD-3.0RW3E-220S RWD-6.0RW3E-220S

Outdoor units



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

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



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



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

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.

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)	m ³ /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			25.6			38.7	
	Cable section (mm ²) / max. length (m) ⁽²⁾	-			3 x 6/28			3 x 10/30	
3-PHASE 400V	Maximum intensity with auxiliary resistance + tank resistance S COMBI	A			-			17.3	
	Cable section (mm ²) / 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 ⁽³⁾	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 (mm ²) / max. length (m) ⁽²⁾	-		3 x 2.5/28		3 x 4/24		3 x 4/21	
3-PHASE 400V	Max. current	A		-		-		16.1	
	Cable section (mm ²) / max length (m) ⁽²⁾	-		-		-		5 x 2.5/16	
Indoor/Outdoor connection (protected)	mm ²				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								

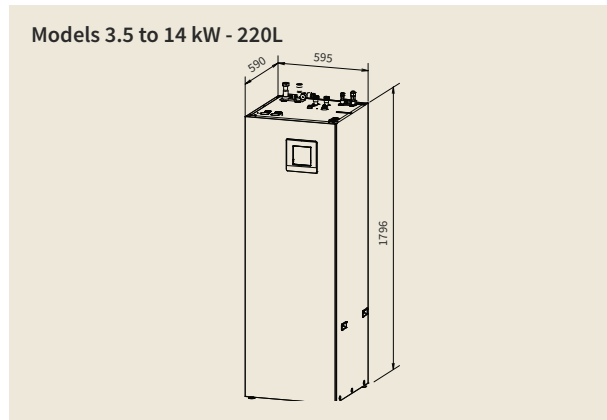
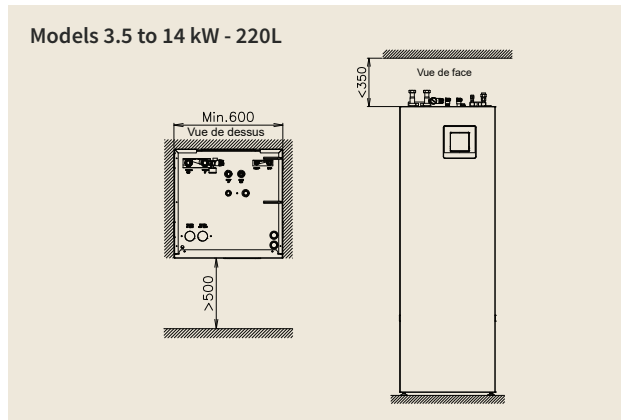
Reversible kit (Optional)

ATW-CKSC-02

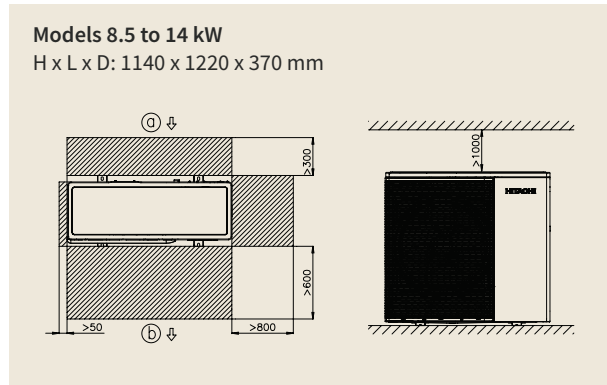
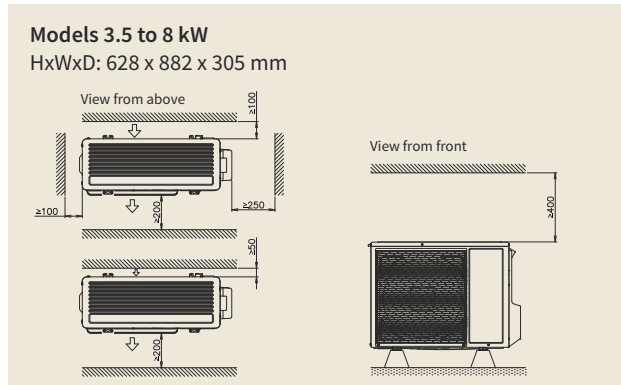
⁽¹⁾ = single ⁽²⁾ Seasonal energy efficiency without regulation, Keymark certification, in accordance with Regulation (EU) No. 813/2013 of the Commission of August 2, 2013, and standard EN14825. ⁽³⁾ Sections given for reference purposes only. Compliant with the applicable electrical standards. ⁽⁴⁾ Pressure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

Outdoor units	Power supply				Bus Lily's shielded cable 2 x 0.75 mm ²
	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V	
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	

Outdoor units	Power supply				Bus Lily's shielded cable 2 x 0.75 mm ²
	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	
RAS-3.5WHVRP2E / WHRP2E	28.6 / 16.1	32 / 20	3G6/5G4	30 / 16	
RAS-4WHVRP2E / WHRP2E					
RAS-5WHVRP2E / WHRP2E					
RAS-6WHVRP2E / WHRP2E					

Hydraulic modules	Power supply				Bus Lily's shielded cable 2 x 0.75 mm ²
	Intensity 230 V	Protection 230 V	Cable section 230 V	Max. cable length 230 V	
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	

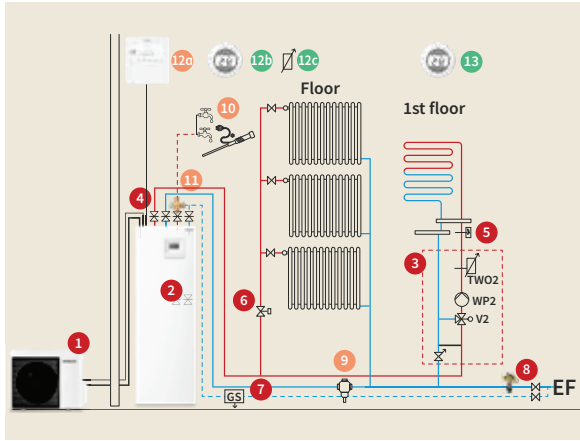
Hydraulic modules	Power supply				Bus Lily's shielded cable 2 x 0.75 mm ²
	Intensity 230 / 400 V	Protection 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	
RWD-3.5RW3E220S	38.7 / 21.3	50 / 25 - C	3G10/5G6	28 / 20	
RWD-4.0RW3E220S					
RWD-5.0RW3E220S					
RWD-6.0RW3E220S					

Hydraulic setups airH2O 600 S Combi

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



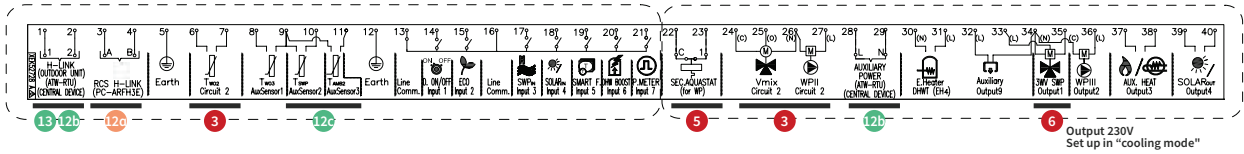
2 control zones: Direct radiators, mixed flooring (reversible)



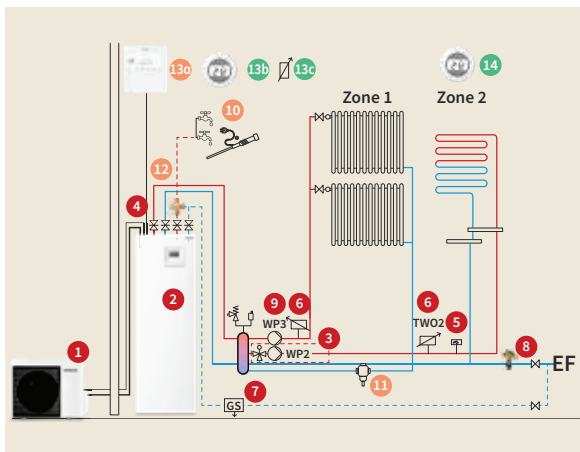
1	Outdoor unit	Mandatory	Hitachi supplied
2	Hydraulic module (6L expansion tank supplied)	Mandatory	Hitachi supplied
3	2 zones kit with mixer valve, balancing valve, circulator, universal temperature sensor, bypass	Mandatory	Hitachi option (ATW-2TK-07)
4	Isolating valves heating 1 st zone	Mandatory	Hitachi 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	Disconnecter	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 ambiance 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	Disconnecter	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
13a	Wired compensation thermostat zone 1: remote PC-ARFH3E	Recommended	Hitachi supplied (with module)
13b	Wireless compensation thermostat zone 1	Option	Hitachi option (ATW-RTU-07)
13c	Wired ambiance sensor	Option	Hitachi option (ATW-ITS-01)
14	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).**

