



HITACHI

airH₂O 800

The heat pump that simplifies daily life!



 Monobloc & hydraulic split **R290 - 75°C**

 **With or without** domestic hot water - cooling



Range from 4 to 14 kW

Cooling & Heating

Why install a heat pump?



Reduce your bill:
with our air/water heat pumps, **up to 70% energy savings***



Increase your property's value:
energy efficiency refurbishment can improve the property's value, **up to 17%***



Reduce your environmental impact:
one of the most virtuous solutions, **up to 6.61 times** less polluting than an oil boiler, for example*

Sources : *energysavingtrust.org.uk

airH₂O 800, the heat pump that simplifies daily life

**Energy label A+++,
for maximum savings**



The high-quality, Keymark-certified design is specially engineered to deliver high performance, allowing it to achieve an **A+++ energy label**, thus reducing energy bills

**Optimized energy
management system (EMS)**



Intelligent functions to manage and adapt to new energy management needs

- Smart grid Ready
- Compatible with photovoltaic functions

Optimal comfort all year round

The **airH₂O 800** range of heat pumps can adapt to all your needs:

- Heating / cooling* (optional)
- Integrated or external domestic hot water

It can also be compatible with all types of emitters: underfloor heating / radiators / fan coils.

*If compatible emitters.

THE RANGE **airH₂O** 800 FROM NEW BUILDS TO REFURBISHMENT - A 3-IN-1 PLUG & PLAY SOLUTION



A more eco-friendly refrigerant:

A range operating exclusively on **R290**, a sustainable and environmentally friendly natural refrigerant.
A **100% hydraulic**, plug & play concept, ensuring optimal safety without handling the refrigerant or opening the outdoor unit.



airH₂O 800 M

Monobloc

Combined with a control box centralizing all connections = no intervention on the outdoor unit

airH₂O 800 H & H Combi

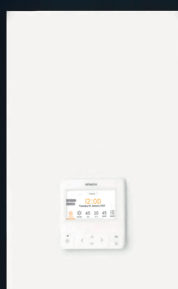
Hydrosplit version

- Heating only/or with 220 L stainless steel domestic hot water tank (DHW)
- Electric backup heater, hydraulic separator tank & integrated secondary pump



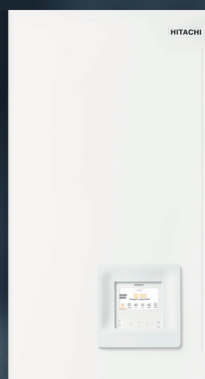
Wi-Fi included as standard:
Remote control via CSNET HOME / CSNET HOME PRO

airH₂O 800 M

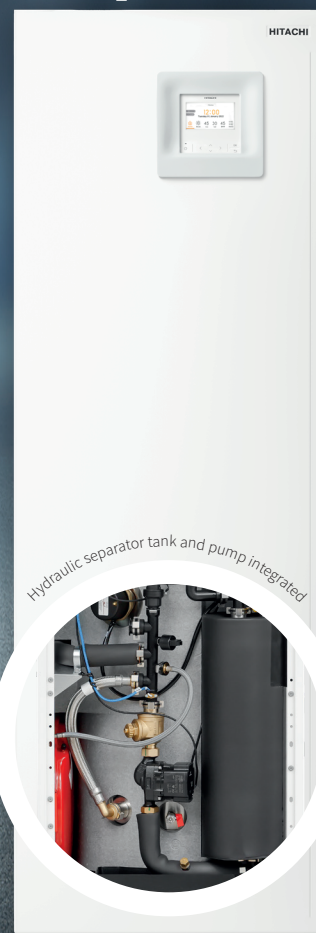


Control Box

airH₂O 800 H



airH₂O 800 H Combi



Hydraulic separator tank and pump integrated



Models 4 to 8 kW



Models 10 to 14 kW

airH₂O 800, the heat pump that simplifies daily life

A HEAT PUMP THAT MEETS THE CHALLENGES



Practicality

No intervention on the outdoor unit during installation or commissioning, thanks to its **plug & play concept**.



Elegance

A new design combining modernity and simplicity, with a full black grille.



High water temperature

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



Discretion

Enhanced acoustic insulation / Optimized fan and motor design / Anti-vibration compressor plate. For one of the best **acoustic comforts**.



Performance

Compressor with **CONSTANT POWER & WATER** technologies, capable of delivering the same capacity and high water temperature even in extreme conditions.



An exclusive design for maximum acoustic reduction

EXCLUSIVE TECHNOLOGIES FOR MAXIMUM SAFETY



Degasser & safety check valve (supplied):

Ensures the absence of R290 in the heating circuit.



Water pressure sensor:

Detects any potential pressure variation in the exchanger.



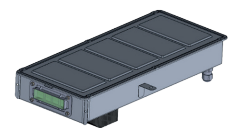
Connected R290 detector:

Monitors the circuit and signals any anomaly via an alert and notification (CSNET Home app).



Electrical connectors:

Facilitates electrical connection without needing to open the outdoor unit.



Electrical box:

Ensures complete fluid tightness.

A 3-IN-1 PLUG & PLAY SOLUTION: ONE SINGLE OUTDOOR UNIT FOR THREE SOLUTIONS

MONOBLOC CONCEPT

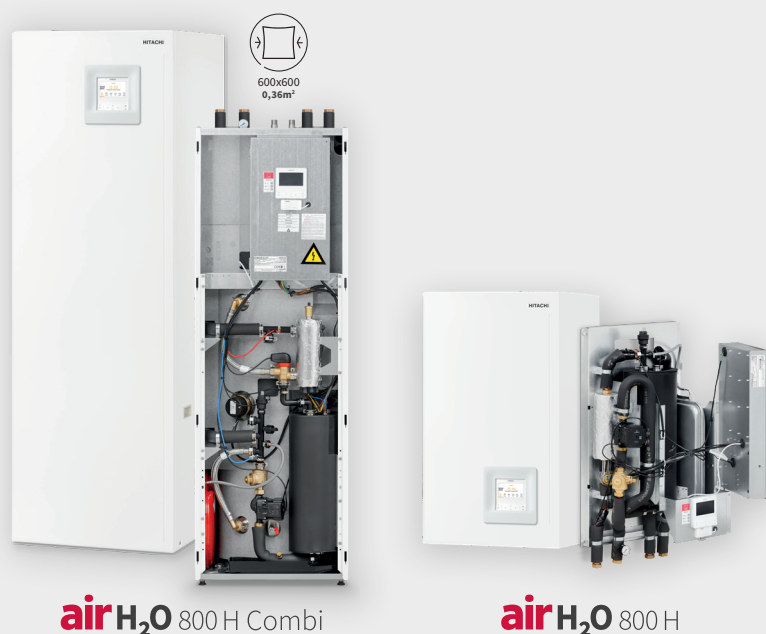


Simplified installation and commissioning without intervention on the outdoor unit

Thanks to the control box (mandatory), complete all wiring in advance, then simply connect the power and communication to the unit without opening it.

NFC configuration also allows commissioning via smartphone

HYDROPLIT CONCEPT



100% HYDRAULIC

100% split hydraulic Solution

Connection to the outdoor unit via hydraulic pipes, ensuring **simplicity of installation and maximum safety.**

Hydraulic separator tank and secondary pump included as standard

Decoupling and buffer tank functions:
Ensures optimal operation of the heat pump
and minimizes the minimum required water
volume in the installation.

**Space and time savings: Accessories
already integrated into the module.**

220 L DHW tank

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

Expansion vessel

Included as standard, to
maintain constant pressure in
the installation

Electric backup heater

Included as standard

Two-zone kit

Integrates into the
module (only H Combi,
optional)

ALL FUNCTIONS INCLUDED AS STANDARD

Thanks to its terminal board with configurable inputs/outputs:
2 zones, boiler backup, external DHW management, solar thermal, fan coils, etc.

The **air H₂O 800** range can meet all your needs without additional electronic card

Connect easily without opening the unit



Power and communication connectors provided

A controller designed to assist you



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

A modern controller:

with its curved shape and color LCD screen.

Simple and intuitive navigation:

with exclusive functions to meet the needs of both professionals and individuals.

Remotely wall mountable controller:

to use as a thermostat.

THE HITACHI ADVANTAGE : NFC CONFIGURATION



Configure quickly and easily:

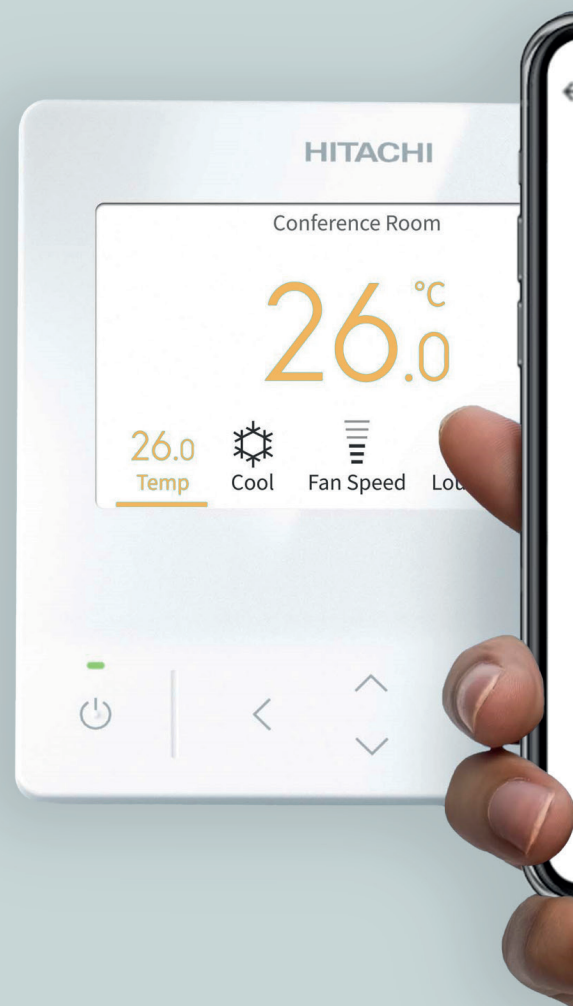
Thanks to NFC technology and the CSNET Home app on your smartphone.

Speed up your commissioning:

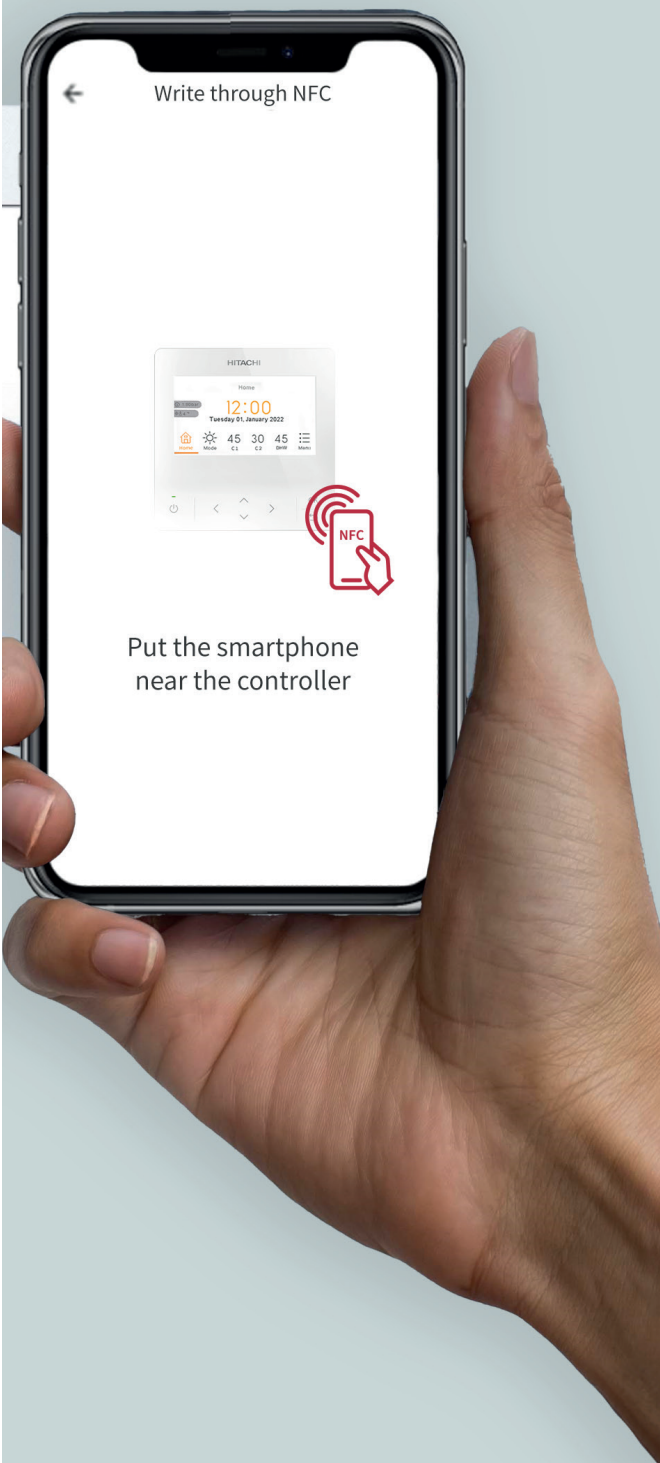
Prepare your configurations in advance and load them, or replicate configurations on identical installations.

Optional functions:

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



Assets to keep control everywhere, all the time



CSNet HOME / HOME PRO Connectivity

Hitachi **connected solutions** to **stay in control** everywhere!

*Included as standard**

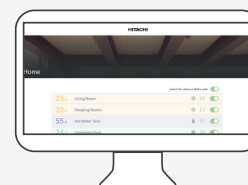
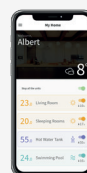


**Only on indoors units with a controller PC-ARFH3E(B)*

CSNet Home



Web user



Smartphone and web applications for end users

Smartphone and web applications for end users

CSNet Home Pro



Maintenance provider



Monitor your system and operate remotely

Web application for installers

Preliminary data

Hydraulic modules <i>(only if Hydrosplit version)</i>	airH2O 800 H :		R290 REFRIGERANT						
	airH2O 800 H Combi :		HWM-W2E		HWM-W2E				
			HWM-W2E-220S		HWM-W2E-220S				
Heating performance			Unit	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW
Min/nom/max heating capacity (7°C outdoor / 35°C water)			kW	- / 4 / 4	- / 6 / 6	- / 8 / 8	- / 10 / 10	- / 12 / 12	- / 14 / 14
Nominal/max heating capacity (-7°C outdoor / 35°C water)			kW	- / 4	- / 6	- / 8	- / 10	- / 12	- / -
Nominal/max heating capacity (-7°C outdoor / 55°C water)			kW	- / 4	- / 6	- / 8	- / 10	- / 12	- / -
COP (7°C outdoor / 35°C water) according to EN14511			-	4,7	4,55	4,41	4,8	4,6	4,4
SCOP average climate 35°C / 55°C according to EN14825			%	4,77 / 3,61	4,89 / 3,57	4,81 / 3,57	5,02 / 3,69	4,76 / 3,7	4,63 / 3,668
Seasonal heating energy efficiency η _S (35°C) ⁽¹⁾			%	188	192	189	198	188	182
Mono/Tri Seasonal heating energy efficiency η _S (55°C) ⁽¹⁾			%	141	139	139	144	145	144
Mono/Tri Energy label 35°C / 55°C			-	A+++ / A++					
Water outlet temperature range (heating mode)			°C	20 / 75°C					
Maximum water outlet temperature in thermodynamic mode only			°C	75°C down to -5°C outdoor					
DHW performance <i>(H Combi only)</i>									
COP DHW (220L) according to EN16147			-	3,2					
Seasonal energy efficiency n _{wh} (220L cycle L)			%	131					
Energy label DHW			-	A+					
Water outlet temperature range (DHW mode)			°C	30 / 70°C					
V _{max} at 40°C according to EN16147			L	288					
Cooling performance <i>(optional)</i>									
Nominal/max cooling capacity (35°C outdoor / 7°C water) (reversible)			kW	3,5 / 3,5	5 / 5	7 / 7	9 / 9	10,5 / 10,5	12 / 12
Nominal absorbed cooling capacity (35°C outdoor / 7°C water)			kW	-					
EER (reversible model)			-	3,60		3,50			
Hydraulic modules <i>(Only Hydrosplit H & H COMBI versions)</i>									
Standard heating electric backup heater / Staged Tri			kW	6 (2+2+2)					
Standard DHW electric backup <i>(H Combi only)</i>			kW	2,7					
Net weight H - H Combi (220L)			kg / lbs	45 - 113					
Dimensions H - H Combi (HxLxD)			mm	890 x 520 x 370 - 1788 x 595 x 598					
Sound power level			dB(A)	-					
DHW tank volume / DHW tank material <i>(H Combi)</i>			L	220 L / Stainless steel					
Controller			-	Included PC-ARFH3E					
Hydraulic characteristics									
Expansion vessel			L	6					
Hydraulic connections Heating H - H COMBI			Inch	1"					
Hydraulic connections DHW <i>(H COMBI only)</i>			Inch	3 / 4"					
Hydraulic separator tank volume H - H COMBI			L	15					
Minimum water volume of the installation H - H COMBI			L	13		-			
Electrical characteristics									
Power supply			-	230V / 1Ph / 50Hz		230V / 1Ph / 50Hz ou 400V / 3Ph / 50Hz			
Single-phase 230V	Maximum current with backup resistance + tank resistance <i>H option / H COMBI</i>		A	39,8 / 38,7					
	Cable section (mm) / maximum length (m) M ⁽²⁾		-	3 x 10 / 30					
Three-phase 400V	Maximum current with backup resistance + tank resistance <i>H option / H COMBI</i>		-	22,4 / 18					
	Cable section (mm) / maximum length (m) M ⁽²⁾		-	5 x 6 / 20					
Outdoor units <i>(for Hydrosplit or Monobloc versions)</i>				RASM-2VTW2E	RASM-3VTW2E	RASM-3.5VTW2E	RASM-4(V)TW2E	RASM-5(V)TW2E	RASM-6(V)TW2E
Sound pressure level at 5m / Sound power in heating mode ⁽³⁾			dB(A)	-		-			
Dimensions (H x W x D)			mm	800 x 1220 x 430			1220 x 1140 x 430		
Net weight			kg	90		130			
Operating ranges Cooling / Heating / DHW			°C	+10→+46 // -25→+25 // -25→+43					
Remote control <i>M only - Mandatory and not included</i>			-	Control Box ATW-CBX-01 (accessory / mandatory) including PC-ARFH3E					
Hydraulic characteristics									
Diameter of hydraulic connections (female / female)			Inch	1"					
Minimum water volume of the installation <i>M only</i>			L	28		55			
Refrigerant / Refrigerant charge			- / kg	R290 / 0,9		R290 / 1,2			
Compressor				ROTARY DC INVERTER					
Electrical characteristics									
Power supply			-	230V / 1Ph / 50Hz		230V / 1Ph / 50Hz ou 400V / 3Ph / 50Hz			
Single-phase 230V	Maximum current		A	14,2	17,7	20,7	29,2		
	Cable section (mm) / maximum length (m) M ⁽²⁾		-	3 x 2,5 / 28	3 x 4 / 24	3 x 4 / 21	3 x 6 / 30		
Three-phase 400V	Maximum current		A	-	-	-	16,7		
	Cable section (mm) / maximum length (m) M ⁽²⁾		-	-	-	-	5 x 2,5 / 16		
Shielded Int / Ext connection			mm ₂	2 x 0,75					

(V) = single

(1) Seasonal energy efficiency without regulation, Keymark certification, according to Commission Regulation (EU) No 813/2013 of 2 August 2013 and standard EN14825.

(2) Sections given as an indication. Comply with the current electrical standard.

(3) Pressure at 5m in night mode - According to EN12102-1 / ErP.

JOHNSON CONTROLS - HITACHI AIR CONDITIONING EUROPE SAS

hitachiircon.com



Certification
Keymark

The commercial warranties offered by Hitachi cover the parts that make up our machines. They apply subject to installation in accordance with our technical specifications and are contingent upon regular maintenance of the equipment by qualified personnel. The frequency of maintenance is related to the conditions of use of the equipment and the applicable legislation. Consult your installer for advice.