

AQ-Pro Series

FROM 75 TO 500 LITERS

A range of air-source heat pumps for Domestic Hot Water (DHW) production. It harnesses thermal energy from the ambient air to heat water efficiently, reducing energy consumption compared to other conventional systems.

This unit uses the natural refrigerant R290, which improves performance and energy efficiency, whilst also reducing its environmental impact.

A compact, self-contained and easy to install solution.



EASY
INSTALLATION



HYDRAULIC
CONNECTIONS



QUIET
HEAT PUMP



REFRIGERANT
GAS

CHARACTERISTICS

SAVING:

Up to 80% compared to conventional Domestic Hot Water production systems.

QUALITY:

Advanced control, thick insulation, stainless steel tank with a titanium anode to prevent corrosion.

ADAPTABILITY:

Suitable for installation in newly built homes or renovation of electric water heaters or gas boilers.

AVAILABLE IN VARIOUS CAPACITIES:

From 75 to 500 liters. It guarantees minimal heat loss thanks to reinforced insulation.

INTEGRATED TECHNOLOGY



PHOTOVOLTAIC CONNECTION



DEFROST



TST SMART CONTROLLER



EFI SMARTAPP REMOTE CONTROL

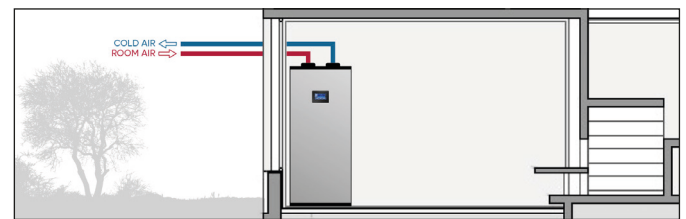


OPERATING SCHEDULE



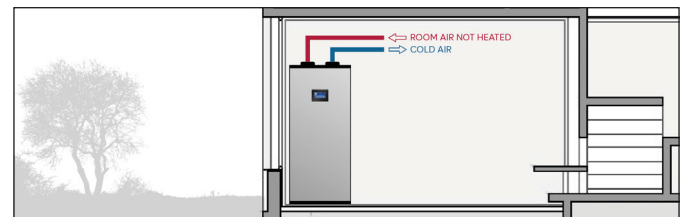
AUTOMATIC ANTI-LEGIONELLA CYCLE

INSTALLATION MODES



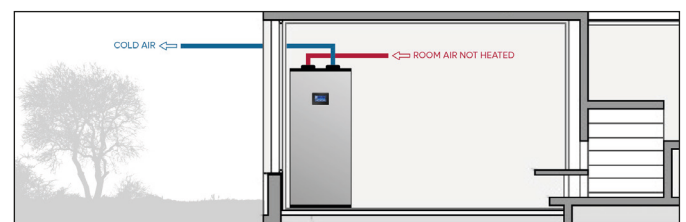
DOUBLE EXTERNAL CONNECTION

The system utilises energy from the outside air and expels the cooled air back outside. To ensure correct operation and compliance with the CTE, it is necessary to channel both the air intake to the unit and the air outlet to the outside.



DOUBLE INTERNAL CONNECTION

The system utilises energy from the air inside the home that originates from an unheated area, the size and ventilation conditions of which allow it to be used as an energy source. The cold air is then discharged back into that same area or into another area that meets the appropriate conditions.



EXTERNAL-INTERNAL CONNECTION.

The system utilises energy from the air inside the home that comes from an unheated area, whilst the air is expelled to the outside via a duct.

TECHNICAL DATA

Model	AQ-PS	75	110	130	150	160	180	200	250	300	500
Installation format*	-	W/F	W/F	W/F	W/F	Floor	Floor	Floor	Floor	Floor	Floor
Capacity	Litres	75	110	130	150*	160	180	200	250	300	500
Nominal power DHW (14°C)**	W	1476	1477	1485	1481	1485	1488	1484	1587	1590	3229
Nominal consumption (14°C)**	W	430	431	434	431	430	433	430	454	464	944
SCOP DHW (14°C)**	-	3,43	3,43	3,42	3,44	3,45	3,44	3,45	3,50	3,43	3,42
Thermal energy support	W	1500	1500	1500	1500	1500	1500	1500	1500	1500	3000
Maximum thermal power	W	3500	3500	3500	3500	3500	3500	3500	3500	3500	7000
Maximum consumption	W	2160	2160	2160	2160	2160	2160	2160	2160	2160	4280
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Air pressure	Pa	65	65	65	65	65	65	65	65	65	65
Air flow range	m³/h	200-300	200-300	200-300	200-300	200-300	200-300	200-300	200-300	200-300	300-400
Hydraulic connections***	Inches	F 3/4-3/4	F 3/4-3/4	F 3/4-3/4	M 3/4-3/4	M 3/4-3/4	F 3/4-3/4	M 3/4-3/4	M 3/4-3/4	M 3/4-3/4	F11/4-11/4
Condensate outlet	Inches	1/2	1/2	1/2	1/2	1-2	1/2	1/2	1/2	1/2	1/2
Air duct diameter	mm	120-120	120-120	120-120	120-120	120-120	120-120	120-120	120-120	120-120	120 / 120
Sound pressure****	dBA	<30	<30	<30	<30	<30	<30	<30	<30	<30	<40
Thermal losses	W/m°C	0,889	0,889	0,889	0,889	0,864	0,889	0,864	0,864	0,864	0,933
Insulation thickness range	mm	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80	50-80
Height*****	mm	1000	1145	1382	1590	1305	1932	1452	1760	2033	2008
Depth	mm	495	495	495	500	550	495	551	551	550	780
Width	mm	450	450	450	455	601	450	601	601	601	710
Approximate weight (Empty)	Kg	75	82,5	90,5	92	94	97,5	97	107,5	118,5	165
Energy class	-	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Refrigerant gas	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Extraction cycle	-	M	M	M	L	L	L	L	XL	XL	XXL

* 150 Available in XL format (check dimensions with the sales manager)

* Installation format: W (Wall) / F (Floor)

** Data expressed for a heating temperature of 55°C and cold water temperature of 10°C according to the UNE-EN16147 standard.

** SCOP according to the climatic zone.

*** F/M (Inlet and outlet of the hydraulic connection of the unit in Female/Male connection)

**** Sound pressure measured at 2 meters away.

***** The height of the unit increases by 25 mm more with the air ducts. The occupied volume may vary depending on the wall or floor model due to the anti-vibration supports, increasing a minimum of 15-20mm in height if it is for floor and depth if it is for wall.

TANK

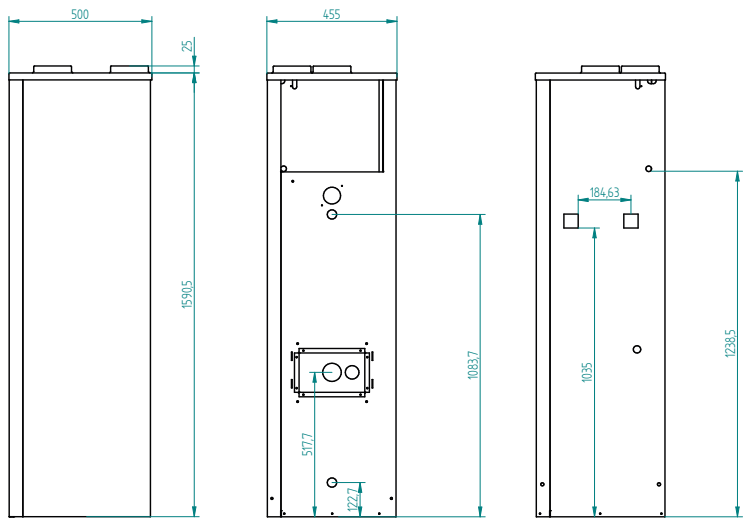
Material	-	Stainless Steel
Maximum service pressure	bar	6
Insolation	-	Polyurethane foam
Medium heat transmission	W/m°C	0,025

CONDITIONS

Maximum temperature mode heat pump*	°C	60 (55)
Maximum temperature with electrical support	°C	70
Minimum air temperature	°C	-5
Maximum air temperature	°C	42

* Heat pump factory set at 55°C.

HEAT PUMP VIEWS (150L)



NOTE: Views of the AQ-Pro Series 150 litre model

ADVANTAGES

Immersion heater
Titanium anode to prevent corrosion
Safety valve
Minimum noise level (standard sound insulation)
Auto-Legionella Cycle
Indicators and alarm history
TST Smart Controller and EFI SmartApp remote control APP

OPTIONAL

Solar coil (1.2 m²) Boiler (0.6 m²) Double (1.2 + 0.6m²)
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AVAILABLE MODELS

75 110 130 150 150XL 160 180 200 250 300 500
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