

AQUATEC

Compact and smart heat pump water heater

The AQ range of equipment includes air-source heat pumps for domestic hot water production. Depending on the size and model, these units can heat up to 1,000 liters per day. Suitable as a standalone system, this equipment harnesses free heat from the ambient air to produce domestic hot water.

Characteristics

Energy savings

Up to 80% compared to traditional domestic hot water systems.

Quality

Advanced control, thick insulation, stainless steel tank with catalytic protection via a titanium anode with impressed current.

Adaptability

Suitable for installation in new construction or renovation projects involving electric water heaters or gas boilers.

Available in various sizes

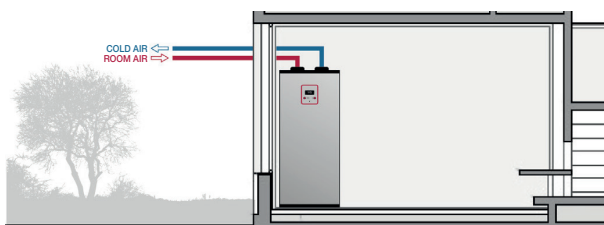
From 75 to 500 liters. It ensures minimal heat loss thanks to its reinforced insulation.



Installation Instructions

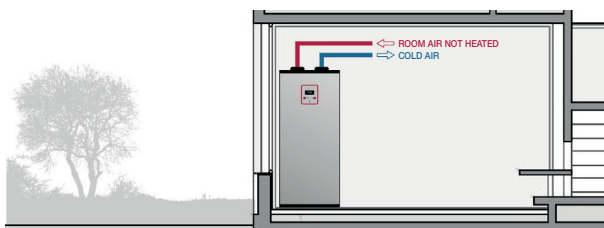
Double external connection.

The system extracts energy from the outside air and also expels the cooled air outside. You must route the air intake to the unit and the air outlet from the unit.



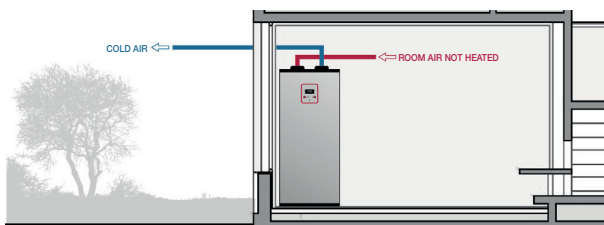
Double internal connection.

The system extracts energy from the indoor air in an unheated area of the home—whose size and ventilation conditions make it suitable for use as an energy source—and directs the cool air into that area or another suitable area.



Internal-external connection.

The system extracts energy from the indoor air in an unheated area of the home; the air is then expelled outdoors through a duct.



Controller functions

- Automatic anti-Legionella cycle
- Defrost mode
- ECO Mode (Heat Pump Operation Only)
- Touch screen
- Comfort mode (Mixed resistance operation - Heat pump)

Technical data

Model	AQ	AQ-75	AQ-110	AQ-130	AQ-150 [†]	AQ-160	AQ-180	AQ-200	AQ-250	AQ-300	AQ-500
Storage volume	Litres	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
Nominal power DHW (14°C)**	W	1525	1525	1531	1520	1520	1522	1541	1543	1650	3078
Nominal consumption (14°C)**	W	519	519	522	518	518	519	515	515	538	1024
SCOP DHW (14°C)**	-	2.93	2.93	2.93	2.93	2.93	2.93	2.99	2.99	3.06	3.00
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 power	W	2160	2160	2160	2160	2160	2160	2160	2160	2160	4280
Supply voltage	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
Fan pressure	Pa	65	65	65	65	65	65	65	65	65	65
Equipment 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	F 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	F 1 1/4-1 1/4
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
Overall heat loss coefficient (UA)	W/K	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
Unit height*****	mm	1025	1170	1407	1545	1305	1932	1477	1785	2033	2033
Unit depth	mm	495	495	495	495	550	495	550	550	550	780
Unit width	mm	450	450	450	450	601	450	601	601	601	710
Approximate weight (Empty)	Kg	75	82.5	90.5	83.5	94	97.5	97	107.5	118.5	165
Energy class	-	A+	A+	A+	A+	A+	A	A	A	A	A
Refrigerant gas	-	R513a	R513a	R513a	R513a	R513a	R513a	R513a	R513a	R513a	R513a
Extraction cycle	-	M	M	M	L	L	L	L	XL	XL	XXL

* 150 Available in XL size: (Height: 1200 x Depth: 557 x Width: 601 cm).

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

*** Data based on a heating temperature of 55°C and a cold water temperature of 10°C, in accordance with the UNE-EN 16147 standard.

**** SCOP by climate zone.

*** M (Inlet and outlet of the equipment's hydraulic connection with a Male fitting).

**** F (Inlet and outlet of the equipment's hydraulic connection with a Female fitting).

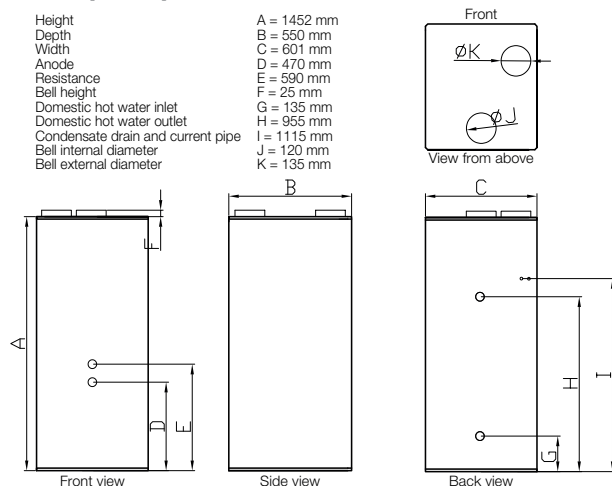
***** Accurate sound measurement at a distance of 2 meters.

***** The height of the unit includes the 25 mm required for the air inlet and outlet.

Tank

Material	-	Stainless Steel
Maximum service pressure	bar	6
Insulation	-	Injected polyurethane
Insulation thermal conductivity (λ)	W/m²K	0.025

Views (200 L)



NOTE: Views corresponding to an AQ model (200 liters)

Working conditions

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

* Factory configured at 55°C

Advantages

Submerged resistance
Titanium anode to prevent corrosion
Safety valve
Minimum noise level (series sound insulation)
Digital temperature control
Alarm indicators
Anti-Legionella

Optional

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

Available storage volumes (L)

75 110 130 150 150XL 160 180 200 250 300 500
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Since the products are constantly evolving MYDATEC reserves the right to modify the declared performances at any time