AQUAPURA
SPLIT

The AQUAPURA SPLIT heat pump is a modern, efficient, and clean solution that guarantees comfort in your home, while always respecting the environment. It is a smart way to use natural resources to improve your quality of life; by adopting this solution you will be making a serious commitment to the issue of reducing harmful emissions into our atmosphere, therefore contributing to the natural balance of the planet.

It is a solution that adapts to both domestic and industrial use, i.e. for hot water consumption in facilities such as:

- **Hotels**
- **Guest houses**
- **Hospitals**
- **Gyms**
- **Etc.**

The heat pump for AQUAPURA SPLIT is direct-contact condenser technology.
It has two parts:

- **Split-system heat pump which is installed outdoors**
- **DHW heater installed indoor**

The interconnection between the two parts is done with refrigerating connections (up to 20 meters).
The AQUAPURA SPLIT can be used at outdoor temperatures of up to -15ºC, allowing for the production of domestic hot water up to 65ºC just with the compressor, which allows for direct replacement of the existing electric cylinder or water heater.

ADVANTAGES AQUAPURA SPLIT

- WATER TEMPERATURE UP TO 65ºC, ONLY WITH COMPRESSOR
- ABSOLUTE SILENCE INSIDE YOUR HOUSE
- WITHOUT DUCTS
- UP TO 20 METERS BETWEEN THE OUTDOOR UNIT AND THE WATER HEATER
- REDUCED HEATING TIME

OPERATING PRINCIPLE

There is a cooling liquid that is pumped to an outdoor heat exchanger (evaporator). Here the liquid, with the help of a fan, absorbs the energy from the atmosphere to the temperature differential obtained outdoors. During this process, the liquid changes to a gaseous state.
The gaseous state is sucked in by the mechanical part of the system, the compressor. Here it is compressed, the pressure goes up and consequently the liquid temperature increases. After this, the liquid travels to a second inside heat exchanger (condenser) and transfers heat to the water in the cylinder.
The fluid goes into liquid state by cooling down. The liquid pressure is reduced due to a strangulation that happens in the expansion valve and the process starts again.

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AQUAPURA
SPLIT

ECONOMY | COMFORT | ECOLOGY

UP TO 65ºC TEMPERATURE

CONNECTION UNTIL 20 METERS DISTANCE

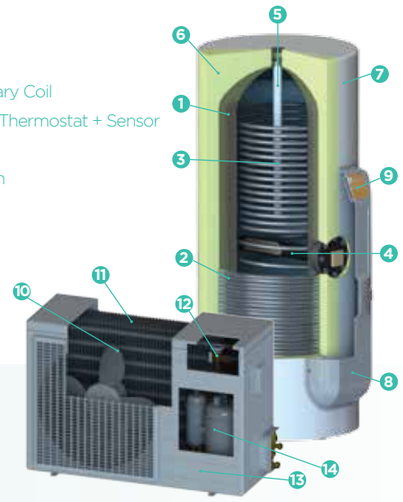
250 300 500 LITERS

HEAT PUMPS FOR DOMESTIC WATER HEATING

STAINLESS STEAL CYLINDER

AQUAPURA
SPLIT

1. Cylinder
2. Condenser (Coil)
3. Optional Supplementary Coil
4. Ceramic Resistance + Thermostat + Sensor
5. Magnesium Anode
6. High Density Insulation
7. Outside Coating
8. Split Cover
9. Electronic Controller
10. Ventilator
11. Evaporator
12. Expansion Valve
13. Unit box
14. Compressor



MINIMUM BUSY SPACE INSIDE THE HOUSE, ONLY THE BALL

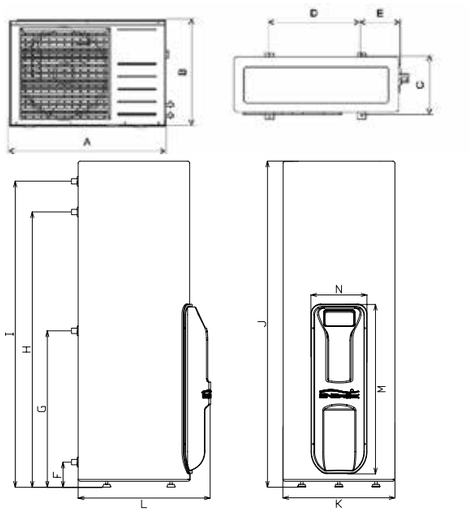
ABSOLUTE SILENCE IN YOUR HOME

VARIED CAPACITIES, MODELS WITH AND WITHOUT ADDITIONAL COIL

WARRANTY 5 YEARS CYLINDER

Check warranty conditions

TECHNICAL DRAWING | DIMENSIONS



With flares valves on the split unit and on the cylinder

Dimensions mm		Outside Unit		
A		776		
B		546		
C		241		
D		548		
E		114		
		250I/IX	300I/IX	500I/IX
F		89	92	92
G		830	772	772
H		1341	1172	1784
I		1469	1315	1927
J		1530	1390	1990
K		580	650	650
L		685	755	755
M			879	
N			290	
Models with Coil	Inlet	696	621	1515
	Outlet	177	221	625
Outlet hot water		3/4" Male		1" Male
PT Valve		1/2" Female		
Recirculation		3/4" Male		
Inlet cold water		3/4" Male		1" Male
Coil (inlet/outlet)		1" Male		

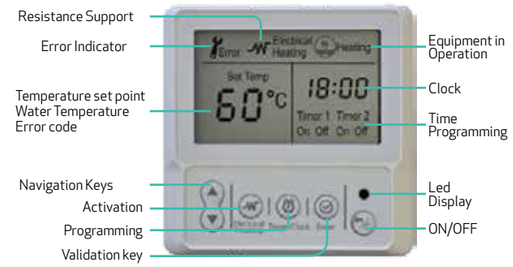
EQUIPMENT

Model	Stainless	Thermal Power W(Med/Max)	Power Consumption W (Med/Max)	Electrical Supply V/Hz	Extra Coil	Liters	No. of People
APS 250i	x	1920/3200	600/1000	230/50		250	5
APS 300i	x	1920/3200	600/1000	230/50		300	6
APS 500i	x	1920/3200	600/1000	230/50		500	9
APS 250ix	x	1920/3200	600/1000	230/50		250	5
APS 300ix	x	1920/3200	600/1000	230/50		300	6
APS 500ix	x	1920/3200	600/1000	230/50		500	9

ELECTRONIC CONTROLLER

The electronic controller that is part of the **AQUAPURA** SPLIT heat pump is a simple and intuitive programmer that allows for:

- The adjustment of the heat pump temperature set point
- The adjustment of the auxiliary coil temperature set point
- Time programming
- The setting of parameters and temperatures



TECHNICAL DATA

CYLINDER		250 I/IX	300 I/IX	500 I/IX
Capacity	L	250	300	500
Dimensions (ø | height)	M	0,58 | 1,530	0,65 | 1,390	0,65 | 1,990
Gross weight	Kg	62/69*	72/79*	110/121*
Material	-	Stainless Steel AISI444		
Outside coating	-	Metallic slate		
Insulation	-	High density polyurethane (55mm)		
Corrosion protection	-	Magnesium Anode 1"1/4		
Maximum water temperature	ºC	80		
Maximum operation pressure	Bar	7		
Thermal loss	kWh/24h	1,01	1,17	1,81
Coil* (ø | length)	M	0,025 | 10	0,025 | 10	0,025 | 24
Coil thermal power*	kW	20**		54**
Protection Index	-	IPX1		
Auxiliary coil power	W	1500		2200
Refrigerating connections	pol.	1/4" | 3/8"		
Hydraulic Connections (Inlet | outlet | recirculation | PT valve | coil *)	pol.	3/4M|3/4M|3/4M| 1/2F|1M		1M|1M|3/4M|1/2F|1M

*Models IX
**Primary circuit (Te = 90ºC; Ts = 80ºC); DHW circuit (Te = 10ºC; Ts = 60ºC)

OUTSIDE UNIT		
Weight	kg	33
Refrigerating connections	pol.	1/4" | 3/8"
Sound level	dB	59
Power supply	V / Hz	230 Mono / 50
Protection Index	-	IPX1
Absorbed electrical power (BC) (med / max)	W	600 / 1000
Thermal power supplied (BC) (med / max)	W	1920 / 3200
Maximum distance between refrigeration connections	m	20 (hight max. 10)
Outdoor operating temperature range	ºC	-14 / 43
Refrigerating fluid	type/g	R134a / 1600
Air flow	m3/h	1300

PERFORMANCE				
Tapping profile	-	XL	XL	XXL
COP	-	3,35	3,44	3,26
Amount of water removed at 40ºC	L	323	362	572
ErP Class	-	A+	A+	A+
Energetic efficiency	%	139,3	143,2	134,4
Annual electricity consumption	kWh/year	1202,6	1170	1603,2

*A14 / W54 according to EN16147 and Delegated Regulation (EU) Nº812 / 2013

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