ENERGIE®
THERMODYNAMIC SOLAR ENERGY

PORTUGUESE MANUFACTURING
SINCE 1981

AQUAPURA SPLIT
DOMESTIC HOT WATER

DOMESTIC HOT WATER HEAT PUMP.
HIGH LEVEL OF EFFICIENCY FOR THE PRODUCTION OF DOMESTIC HOT WATER IN YOUR HOME!

TEMPERATURE 65°c UP TO

VERY SILENT

DISTANCE BETWEEN 20m UP TO UNITS

BUILT-IN 60x60 CM

WI-FI CONNECTIVITY

EFFICIENCY & QUALITY

OPERATING PRINCIPLE

The refrigerant fluid is pumped into an external heat exchanger (evaporator). Here, with the help of a fan, the fluid absorbs energy from the environment due to the temperature differential achieved outside, resulting in a phase change to the gaseous state.

It is then drawn into the mechanical part of the system, the compressor. Here, it is compressed, the pressure increases, and consequently, the temperature of the fluid rises. It then travels to a second internal heat exchanger (condenser), where it transfers heat to the water in the tank. The subsequent drop in temperature causes the fluid to change back to its liquid state. The fluid pressure is reduced due to a throttling that occurs in the expansion valve, and the process starts again.

PORTUGUESE MANUFACTURING

1. Cylinder
2. Condenser
3. Ceramic Resistance + Thermostat + Sensor
4. Magnesium Anode (if applicable)
5. Split Cover
6. Ventilator
7. Outdoor unit box

See warranty conditions

DHW HEAT PUMP

- Wall-mounted and floor-standing Heat Pumps
- Stainless Steel Cylinder (F18 or Duplex)
- Domestic Hot Water up to 65ºC using only the compressor
- Absolute silence inside your home
- No ductwork required
- Up to 20m between indoor and outdoor unit
- Reduced heating time
- Models that fit standard 60x60cm cabinets
- Capacities of 160, 200, 300, 500 liters
- Hot Water in less than 3 hours
- Up to 75% real savings
- Condenser outside the tank

UP TO 75% FREE ENERGY

MAXIMUM RETURN ON INVESTMENT

DOMESTIC HOT WATER HEAT PUMP

We select the best components and subject our systems to rigorous quality testing to ensure maximum customer satisfaction.
The 160L, 200L, and 300L models are built-in to fit 60x60cm.

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.

ELECTRONIC CONTROLLER

DOMESTIC HOT WATER PRODUCTION

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 electric heater temperature set point
- Time programming
- The setting of parameters and temperatures

CYLINDER		SPLIT 160 (MURAL)
Capacity	L	160
Dimensions (ø | height)	mm	530/1141
Gross weight	Kg.	32
Material	-	Stainless Steel Duplex 2205
Insulation	-	High density polyurethane (55mm)
Maximum water temperature	°C	80
Maximum operation pressure	bar	7
Thermal loss [1]	kWh/24h	0,94
Protection Index	-	IPX1
Auxiliary coil power	W	1500
Refrigerating connections	pol.	1/4" | 3/8"

[1] According to EN12897

OUTSIDE UNIT		
Weight	Kg.	33
Refrigerating connections	inch.	1/4" | 3/8"
Sound level	dB	54
Power supply	V/Hz	230 / 50
Protection Index	-	IPX1
Absorbed electrical power (HP) (med / max)	W	600 / 900
Thermal power supplied (HP) (med / max)	W	1920 / 3200
Maximum distance between units	m	20 (max. height 10)
Outdoor operating temperature range	°C	-14 / 43
Refrigerating fluid	type/g	R134a / 1600
Air flow	m^3/h	1300

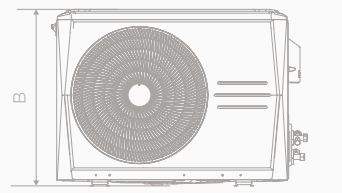
PERFORMANCE		
Tapping profile	-	L
COP	-	3,83 [2] | 4,12 [3]
Amount of water removed at 40°C	L	191
Energy efficiency class	-	A+
Energetic efficiency	%	158 [2] | 171 [3]
Annual electricity consumption	kWh/year	647 [2] | 601 [3]

[2] EN16147: Water heating from 10°C to 54°C (air temperature 14°C)
[3] EN16147: Water heating from 10°C to 54°C (air temperature 20°C)

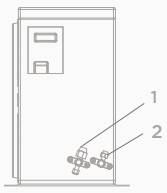
DIMENSIONS mm	OUTDOOR UNIT
A	804
B	555
C	302
D	452
E	137

DIMENSIONS mm	SPLIT 160 (MURAL)
A	1141
BØ	530
C	550
D	750
E	235
F	275
G	220

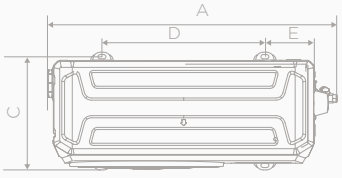
Equipment: **OUTDOOR UNIT SPLIT 160 | 250 | 300 | 500**



Front view



Side view

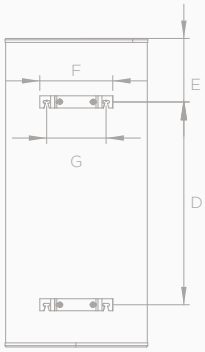


Top view

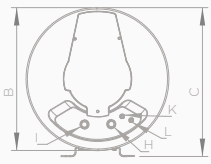
1. 3-way valve 3/8"
2. 2-way valve 1/4"

Equipment : **INDOOR UNIT SPLIT 160**

Front view



Back view



Bottom view

H. Cold water 3/4"
I. Hot water 3/4"
K. Refrigerant outlet 1/4"
L. Refrigerant inlet 3/8"

CYLINDER		SPLIT 200 I/IX	SPLIT 300 I/IX	SPLIT 500 I/IX
Capacity	L	200 / 190	270 / 260	455 / 445
Dimensions (ø | height)	mm	580 / 1240	580 / 1540	650 / 2020
Gross weight	Kg.	46 / 51	46 / 57	73 / 95
Material	-	Stainless Steel F18 (optional Duplex 2205)		
Insulation	-	High density polyurethane (55mm)		
Corrosion protection	-	Magnesium anode 1" 1/4 (if applicable)		
Maximum water temperature	°C	80		
Maximum operation pressure	bar	7		
Thermal loss [1]	kWh/24h	0,99	1,01	1,81
Coil (ø | length)	m	0,025 | 10	0,025 | 10	0,025 | 24
Coil thermal power [2]	kW	20	20	54
Protection Index	-	IPX1		
Auxiliary coil power	W	1500	1500	2200
Refrigerating connections	pol.	1/4" | 3/8"	1/4" | 3/8"	1/4" | 3/8"

[1] According to EN12897 | [2] Primary circuit (Te=90°C; Ts=80°C); DHW circuit (Te=10°C; Ts=60°C)

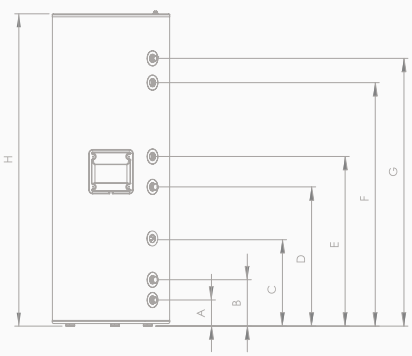
OUTSIDE UNIT		
Weight	Kg.	33
Refrigerating connections	inch.	1/4" | 3/8"
Sound level	dB	54
Power supply	V/Hz	230 / 50
Protection Index	-	IPX1
Absorbed electrical power (HP) (med / max)	W	600 / 900
Thermal power supplied (HP) (med / max)	W	1920 / 3200
Maximum distance between units	m	20 (max. height 10)
Outdoor operating temperature range	°C	-14 / 43
Refrigerating fluid	type/g	R134a / 1600
Air flow	m^3/h	1300

PERFORMANCE				
Tapping profile	-	L	XL	XXL
COP	-	3,99 [3] | 4,21 [4]	3,93 [3] | 4,25 [4]	3,77 [3] | 4,02 [4]
Amount of water removed at 40°C	L	281	351	599
Energy efficiency class	-	A+	A+	A+
Energetic efficiency	%	166 [3] | 176 [4]	162 [3] | 175 [4]	156 [3] | 166 [4]
Annual electricity consumption	kWh/year	615 [3] | 583 [4]	1037 [3] | 957 [4]	1384 [3] | 1297 [4]

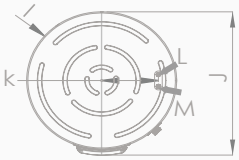
[3] EN16147: Water heating from 10°C to 54°C (air temperature 14°C)
[4] EN16147: Water heating from 10°C to 54°C (air temperature 20°C)

DIMENSIONS mm	SPLIT 200 I/IX	SPLIT 300 I/IX	SPLIT 500 I/IX
A	131	131	102
B	231	231	237
C	435	435	657
D	690	690	784
E	-	840	1095
F	905	1205	1772
G	1030	1325	1937
H	1240	1540	2020
I	Ø 580	Ø 580	Ø 650
J	600	600	764
K	220	220	-

Equipment : **INDOOR UNIT SPLIT 200 | 300 | 500**

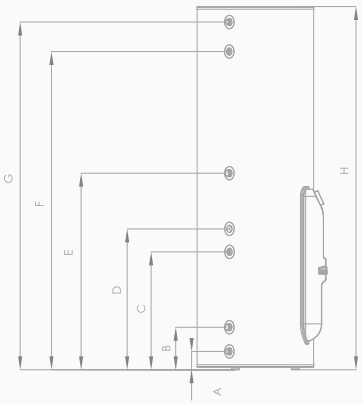


Equipment: **SPLIT 200 | 300**

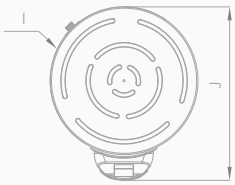


Top view

A. Cold water 3/4" (M)
B. Coil outlet 1" (M)
C. Instrumentation
D. Coil inlet 1" (M)
E. Recirculation 1/2" (F)
F. PT Valve 1/2" (F)
G. Hot water 3/4" (M)
L. Refrigerant inlet 3/8"
M. Refrigerant outlet 1/4"



Equipment: **SPLIT 500**



Top view

A. Cold water 1"(M)
B. Coil outlet 1"(M)
C. Coil inlet 1"(M)
D. Recirculation 3/4" (M)
E. Magnesium Anode 1"1/4 (F)
F. PT Valve 1/2" (F)
G. Hot water 1"(M)

Project co-financed by:

NORTE2020
PROGRAMA OPERACIONAL REGIONAL DO NORTE

PORTUGAL 2020

UNIÃO EUROPEIA
Fundos Europeus Estruturais e de Investimento

Zona Industrial de Laúndos
Lote 48, 4570-311 Laúndos
Póvoa de Varzim, Portugal
EMAIL energie@energie.pt
SITE www.energie.pt

Follow us on:
ENERGIE PORTUGAL

Authorized dealer