

# AQUAPURA INVERTER HT

HEATING & COOLING +  
DOMESTIC HOT  
WATER



**AEROTHERMY  
HEAT PUMP.**  
LATEST GENERATION  
OF HEAT PUMP  
WITH NEW R290  
NATURAL  
REFRIGERANT.



# THE LATEST GENERATION OF AEROTHERMIC HEAT PUMPS

WITH NATURAL REFRIGERANT R290



Use a natural refrigerant with less global warming potential.



The equipment can reach temperatures of over 70°C making it the ideal solution for replacing boilers.



Generates low levels of noise, almost imperceptible from a few metres away when in operation.



Efficiency class A+++ and a SCOP coefficient of over 5 give the equipment one of the highest levels of efficiency on the market.



The system contains no fluorinated gases, it is 100% hydraulic.



Guaranteed high performance regardless of the use: heating, cooling or production of DHW.



The equipment has an ABS polymer-coated exterior designed to provide protection against corrosion.

## INTUITIVE TOUCH CONTROL

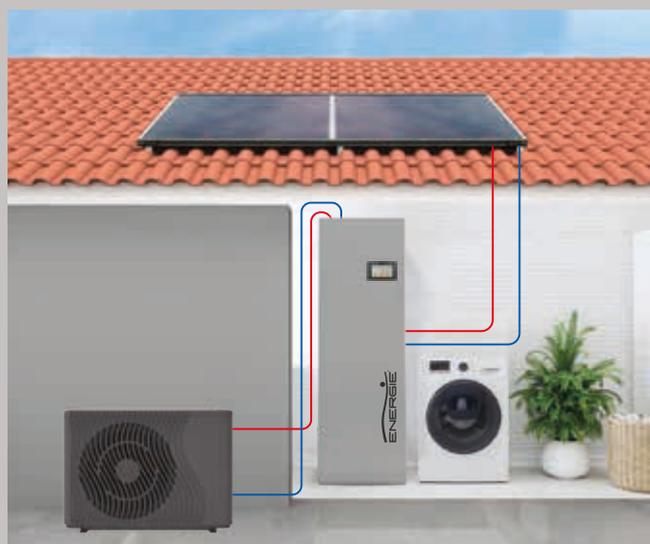
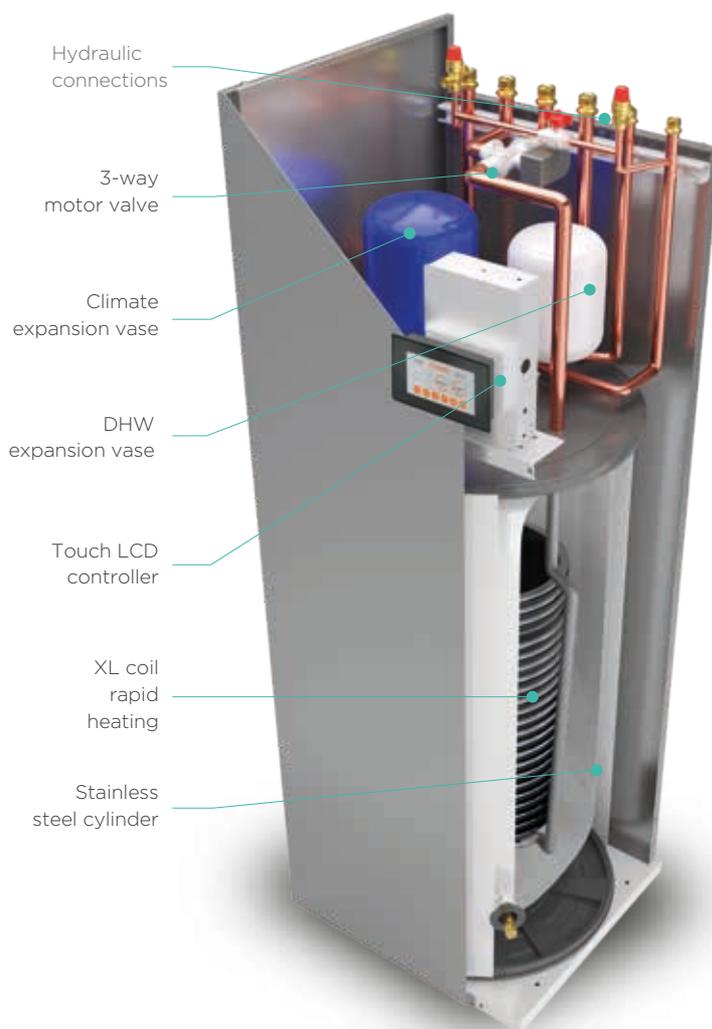
HEATING & COOLING + PRODUCTION OF DHW

1. ON/OFF
2. Operating mode
3. Temperature
4. Setpoint
5. Keyboard blocking
6. Menu



# COMPATIBLE WITH THE THERMOBOX RANGE

The INVERTER 14HT is compatible with the Aquapura THERMOBOX range of equipment! These models, part of ENERGIE's ALL-IN-ONE line, consisting of just 2 units, one outer and one inner, are 100% hydraulic. All the components of the equipment are housed in the inner unit, resulting in a versatile and compact solution. Ideal for multi-family homes and dwellings.



MAXIMUM  
RETURN ON  
INVESTMENT

## NEW CLIMATE SOLUTION

All that is needed is to have a substructure of water terminals, namely radiators, invisible radiant heating or fan coils, to be able to enjoy this new solution for Heating & Cooling and Domestic Hot Water production.

# FUNCTIONING

## PRINCIPLE

There is a refrigerant fluid that is pumped into an external heat exchanger (evaporator). Here the fluid absorbs energy from the environment due to the temperature differential achieved outside. During this process, the fluid changes state and becomes vapour. The gaseous fluid is aspirated by the mechanical part of the system, the compressor. Here it is compressed, the pressure rises and consequently the fluid temperature rises. The fluid then travels to a second internal heat exchanger (condenser) and transfers the heat it transports to the house's heating system. The fluid goes back to the liquid state by cooling. The fluid pressure is reduced due to throttling that occurs in the expansion valve and the process starts over again.

# INVERTER HEAT PUMPS

## STAND OUT FOR THEIR HIGH PERFORMANCE

Heat pumps are prepared for heating and cooling as well as domestic water heating. These solutions stand out for their high energy efficiency, which makes them capable of achieving an energy rating up to A+++ for heating. They also stand out for their ability to integrate with other heating systems and easy installation.

# HIGH LEVEL OF EFFICIENCY

## DOMESTIC HOT WATER PRODUCTION

The heat from the environment is indirect solar energy, stored in water, air and soil. The heat pump will extract heat precisely from these heat sources for later use in your home's climate. Air/Water heat pumps with high energy efficiency INVERTER technology are a modern, efficient and clean solution that guarantees the comfort of your home, always respecting the environment.

It's a smart way to use nature's resources to improve your quality of life. By adopting one of these solutions, you will be making a serious commitment to the issue of reducing harmful emissions to our atmosphere, thus contributing to the planet's natural balance. The Air/Water heat pumps with INVERTER technology were developed to meet the needs of both domestic and industrial use, for climatization (heating and cooling) and Domestic Hot Water solutions (DHW).

## CONSUMPTION OF PRIMARY ENERGY

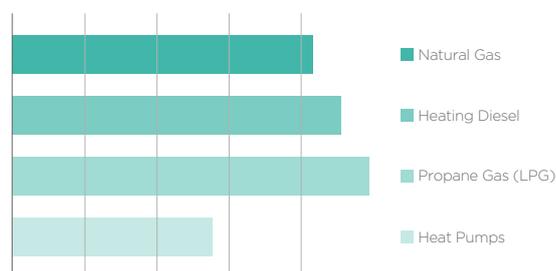
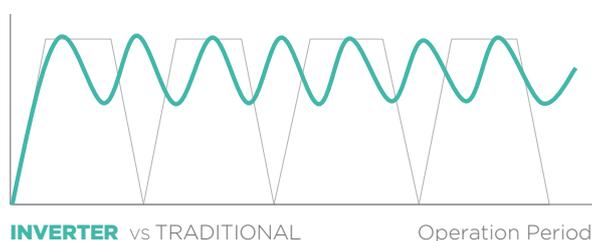


CHART OF ENERGY CONSUMPTION

## KEY FEATURES

- The highest efficiency on the market
- Heating and/or Cooling
- Reduced maintenance and low operating noise
- Operation at outdoor temperatures down to  $-25^{\circ}\text{C}$
- Manufactured with a corrosion-resistant ABS coating
- Domestic Hot Water Function

## DC INVERTER TECHNOLOGY



DC INVERTER technology is different from any other technology existing on the market because it has a compressor with the capacity to vary the operating frequency, meeting the exact needs of climatization comfort at home. This achieves greater savings in energy consumption.

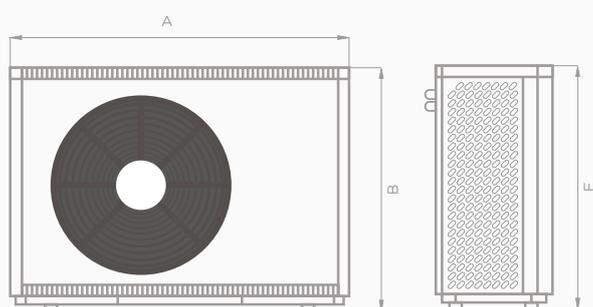
TECHNICAL DATA (Outdoor Unit)			AQUAPURA 8HT (INVERTER P3-10)	AQUAPURA 14HT (INVERTER P6-16)	AQUAPURA 14HT-T (INVERTER P6-16)
Power Supply			230V~/50Hz	230V~/50Hz	400V~/3F+N/50Hz
Power Supplied	Heating (Nom./Max)	kW	7.2-10.3	11.85-15.75	11.85-15.75
	Cooling (Nom./Max)	kW	5.7-8.51	7.85-11.61	7.85-11.61
Power consumed	Heating (Nom./Max)	kW	1.5-2.9	2.36-4.67	2.36-4.67
	Cooling (Nom./Max)	kW	1.64-2.95	1.98-4.98	1.98-4.98
COP <sup>1</sup>	Nominal		4.8	5.02	5.02
ERR <sup>2</sup>	Nominal		3.46	3.96	3.96
Energy efficiency class at 35 35°C <sup>3</sup>			A+++	A+++	A+++
SCOP Seasonal efficiency at 35°C <sup>3</sup>			5.02	5.13	5.13
Energy efficiency class at 35 55°C <sup>3</sup>			A++	A++	A++
SCOP Seasonal efficiency at 55°C <sup>3</sup>			3.73	3.97	3.97
Maximum consumption power		kW	3	5,3	5,3
Maximum consumption current		A	13,5	24,5	10,5
Refrigerant (R290) / CO <sub>2</sub> Eq.		kg/Ton	0,5 / 0,0015	0,85 / 0,00255	0,85 / 0,00255
Compressor			DC Inverter	DC Inverter	DC Inverter
Sound Pressure at 1m		dB(A)	43	42 / 33	42 / 33
Sound power		dB	57	58	58
Hydraulic Connections Diameter		Inches	1"	1"	1"
Circulator			Integrado	Integrated	Integrated
Water flow (min)		m <sup>3</sup> /h	1	1,6	1,6
Hydraulic circuit load loss		kPa	20	30	30
Dimensions		(AxLxP)	795x1167x455	1287x928x485	1287x928x485
Weight		kg	80	160	160

<sup>1</sup> Air temperature (DB/WB) 7°C/6°C; Water temperature (inlet/outlet) 30°C/35°C | <sup>2</sup> Air temperature (DB/WB) 35°C/24°C; Water temperature (inlet/outlet) 12°C/7°C | <sup>3</sup> In compliance with EN14825 and Delegated Regulation (EU) No. 812/2013

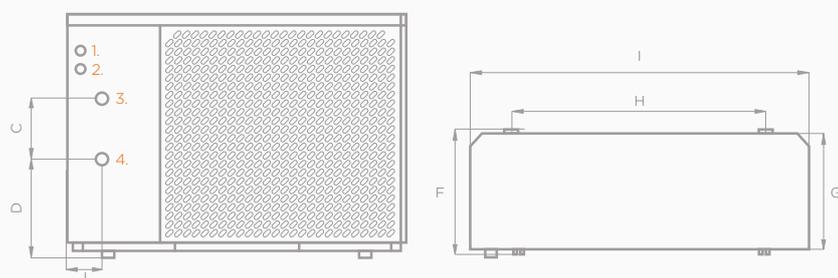
TECHNICAL DATA THERMOBOX DHW (Indoor Unit)		160 AQUAPURA INVERTER 8HT	200 AQUAPURA INVERTER 8HT	200 AQUAPURA INVERTER 14HT   14HT-T	270 AQUAPURA INVERTER 14HT   14HT-T
Heating Time ( $\Delta t=35^{\circ}\text{C}$ )	hh:mm	00:54	01:13	00:28	00:37
COP / SPF <sup>4</sup>		3,31	3,32	3,32	3,36
Consumption Profile <sup>4</sup>		L	L	L	XL
Energy-Efficiency <sup>4</sup>	%	138	139	139	140
Quantity of Hot Water Available (40°C) <sup>4</sup>	L	205	257	258	332
Energy Class <sup>4</sup>		A+	A+	A+	A+
DHW Maximum Temperature AQS	°C	55	55	55	55

<sup>4</sup> A14/W10-54, in compliance with EN16147 and Delegated Regulation (EU) No. 812/2013

Equipment: **Inverter HT**



DIMENSIONS mm	8HT	14HT   14HT-T
A	1167	1287
B	795	928
C	229	238
D	339	363
E	795	928
F	445	500
G	428	458
H	830	975
I	1167	1287
J	166	125



1. Power supply
2. Communication
3. Water outlet
4. Water return

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