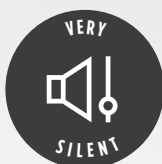
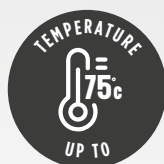


AQUAPURA INVERTER HT

HEATING & COOLING
AND DOMESTIC HOT
WATER



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



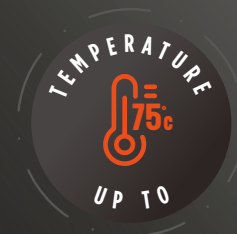
THE LATEST GENERATION OF AIR TO WATER HEAT PUMPS

WITH NATURAL REFRIGERANT R290

ENERGIE.PT



Uses a natural refrigerant with a lower global warming potential.



This Aquapura Inverter can achieve temperatures up to 75°C, making it an ideal solution for boiler replacement.



Operates with minimal noise, nearly imperceptible from just a few meters away.



With an A+++ efficiency class and a SCOP coefficient near 5, the unit offers one of the highest efficiency levels on the market.



The connections are entirely hydraulic, with no fluorinated gases involved.



High performance in all applications: heating, cooling, and domestic hot water (DHW) production.



The Aquapura inverter features an ABS polymer-coated exterior, specifically designed for enhanced protection against corrosion.

INTUITIVE TOUCH CONTROL

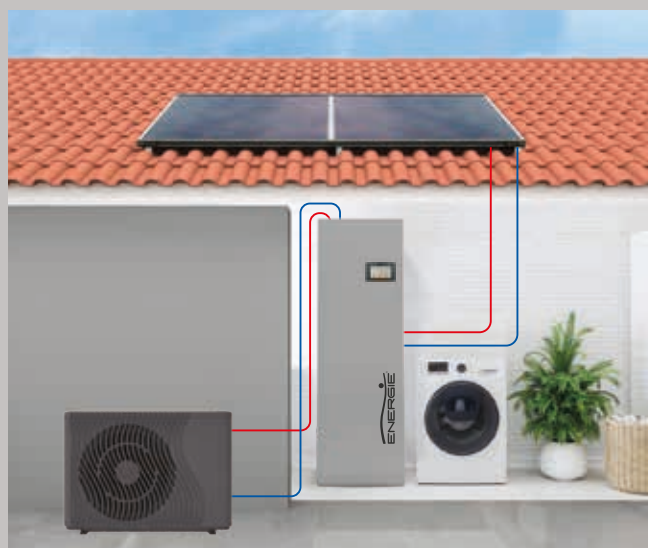
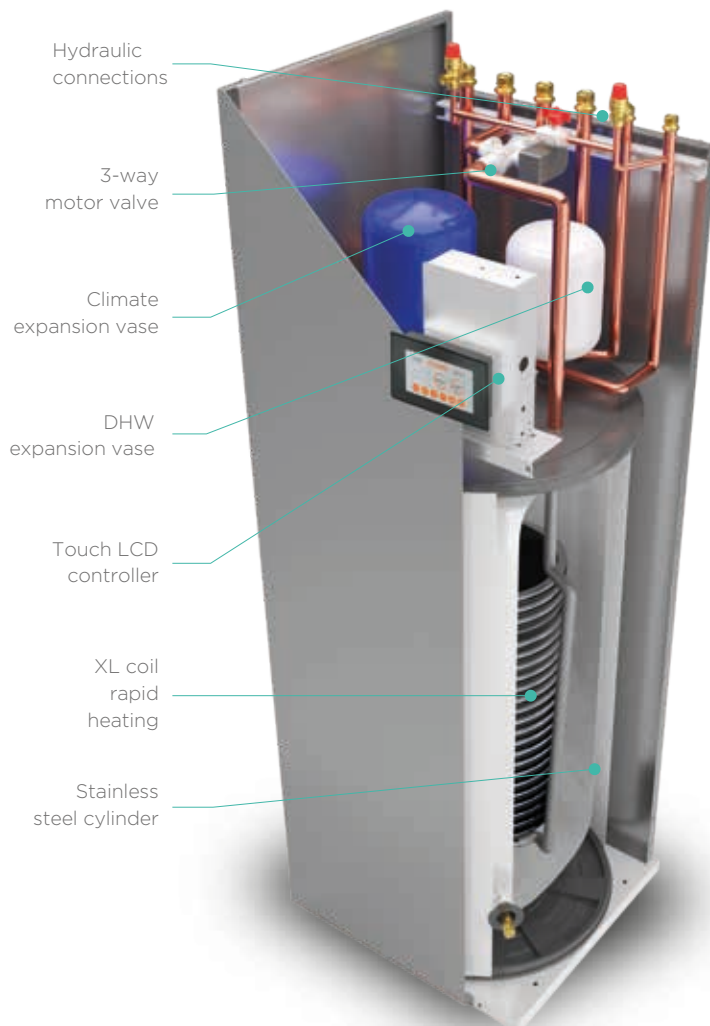
HEATING & COOLING AND
PRODUCTION OF DHW

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



COMPATIBLE WITH THE THERMOBOX RANGE

The INVERTER HT is fully compatible with the Aquapura THERMOBOX range! These models, part of ENERGIE's ALL-IN-ONE line, consist of just two units—an outdoor and an indoor unit—both 100% hydraulic. All components are housed within the indoor unit, offering a versatile and compact solution. Perfect for multi-family homes and residential buildings.



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

ENERGIE.PT

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.

INVERTER HEAT PUMPS

STAND OUT FOR THEIR HIGH PERFORMANCE

Heat Pumps are prepared for Heating & 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

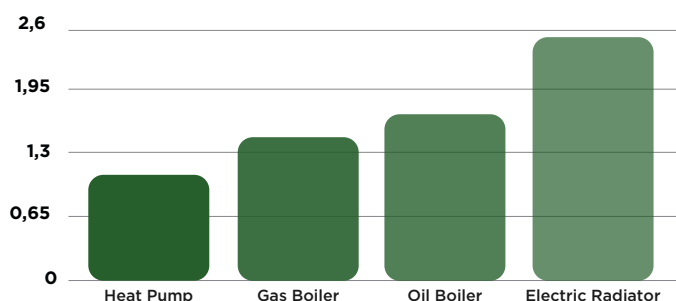
DOMESTIC HOT WATER PRODUCTION

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.

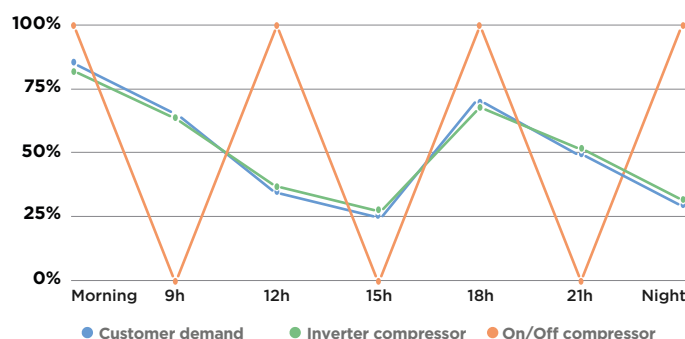
It's a smart way to use nature's resources to improve your quality of life. By adopting one of these solutions, you will be making a serious commitment to the issue of reducing harmful emissions to our atmosphere, thus contributing to the planet's natural balance. The Air/Water Heat Pumps with INVERTER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

CONSUMPTION OF PRIMARY ENERGY

DC INVERTER TECHNOLOGY



Source: Joint Research Centre (JRC), European Commission, 2010. Values expressed in kWh of primary energy per kWh of useful heat.



Illustrative values only - they do not represent the operating behaviour of any specific model.

KEY FEATURES

- The highest energy efficiency
- Heating and/or Cooling
- Reduced maintenance and low operating noise
- Operation at outdoor temperatures down to -25°C
- Manufactured with a corrosion-resistant ABS coating
- Domestic Hot Water Function

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)			INV. 8HT	INV. 12HT	INV. 14HT	INV. 14HT-T	INV. 22HT
Power supply			230V~/50Hz	230V~/50Hz	230V~/50Hz	400V~/3F+N/50Hz	380-415V/3N~/50Hz
Power supplied	Heating (Nom./Max)	kW	8,95-10,30	12,30-14,50	14,21-16,70	14,21-16,70	22,00-25,47
	Cooling (Nom./Max)	kW	5,98-8,51	10,14-11,60	9,71-11,61	9,71-11,61	16,04-17,16
Power consumed	Heating (Nom./Max)	kW	1,86-3,00	2,50-5,10	2,83-5,30	2,83-5,30	4,94-8,31
	Cooling (Nom./Max)	kW	1,64-3,00	2,61-5,10	2,45-5,30	2,45-5,30	4,44-8,31
COP ¹	Nominal		4,8	4,92	5,02	5,02	4,45
ERR ²	Nominal		3,65	3,88	3,96	3,96	3,61
Energy efficiency class at 35°C ³			A+++	A+++	A+++	A+++	A+++
SCOP Seasonal efficiency at 35°C ³			5,00	4,82	4,90	4,90	4,91
Energy efficiency class at 55°C ³			A++	A++	A++	A++	A++
SCOP Seasonal efficiency at 55°C ³			3,71	3,53	3,76	3,76	3,70
Maximum consumption power	kW		3,0	5,1	5,3	5,3	8,31
Maximum consumption current	A		13,5	22	24,5	10,5	15,8
Refrigerant (R290) / CO ₂ Eq.	kg/Ton		0,5 / 0,0015	0,8 / 0,0020	0,85 / 0,003	0,85 / 0,003	1,3 / 0,004
Compressor			DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
Sound pressure at 1m	dB(A)		43	46	42	42	44
Sound power	dB		57	60	56	56	61
Hydraulic connections diameter	Pol.		1"	1"	1"	1"	1"
Circulator			Integrated	Integrated	Integrated	Integrated	Integrated
Minimum water flow	m ³ /h		1	1,4	1,6	1,6	2,9
Hydraulic circuit load loss	kPa		20	15	30	30	42
Dimensions	(HxWxD)		795x1167x445	790x1167x420	928x1287x500	928x1287x500	1247x540x1326
Weight	kg		80	120	160	160	202

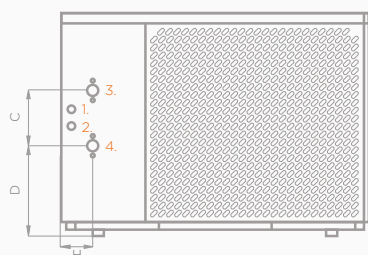
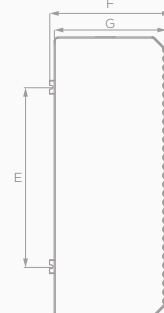
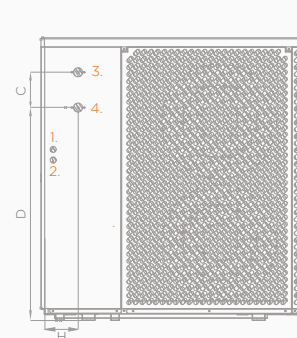
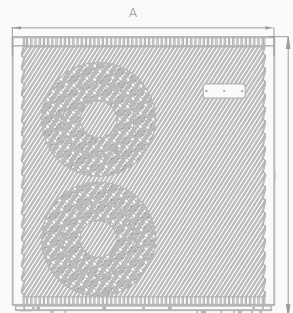
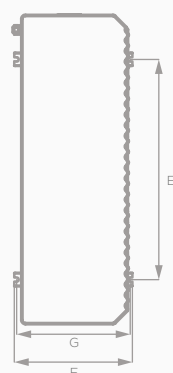
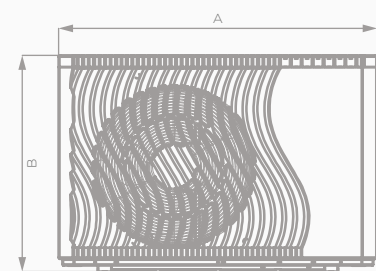
¹ Air temperature (DB/WB) 7°C/6°C; Water temperature (inlet/outlet) 30°C/35°C | ² Air temperature (DB/WB) 35°C/24°C; Water temperature (inlet/outlet) 12°C/7°C | ³ In compliance with EN14825 and Delegated Regulation (EU) No. 812/2013

TECHNICAL DATA THERMOBOX DHW (Indoor Unit)			INVERTER 8HT		INVERTER 12HT		INVERTER 14HT 14HT-T		INVERTER 22HT
			160L	200L	160L	200L	270L	200L	270L
Heating time (Δt=35°C)	hh:mm		00:44	00:55	00:32	00:40	00:54	00:34	00:47
COP / SCOP ⁴			3,31	3,32	3,34	3,36	3,38	3,32	3,36
Consumption profile ⁴			L	L	L	L	XL	L	XL
Energy efficiency ⁴	%		138	139	139	141	141	139	140
Quantity of Hot Water available (40°C) ⁴	L		205	257	205	257	332	258	332
Energy class ⁴			A+	A+	A+	A+	A+	A+	A+
DHW maximum temperature AQS	°C		65	65	65	65	65	65	65

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

Equipment: **INVERTER 8HT | 12HT | 14HT | 14HT-T**

Equipment: **INVERTER 22HT**



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

DIMENSIONS mm	8HT	12HT	14HT 14HT-T	22HT
A	1167	1167	1287	1247
B	795	790	928	1326
C	229	239	238	155
D	339	331	363	985
E	830	830	975	800
F	445	420	500	540
G	428	400	458	503
H	166	176	125	216
3	1"	1"	1"	1"
4	1"	1"	1"	1"

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