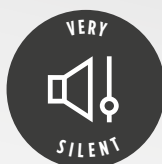
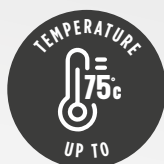


AQUAPURA INVERTER X30HT | X60HT X75HT | X120HT

DOMESTIC HOT
WATER AND
CENTRAL
HEATING



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



THE LATEST GENERATION OF AIR / WATER HEAT PUMPS

WITH NATURAL REFRIGERANT R290



Use a natural refrigerant with less global warming potential.



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



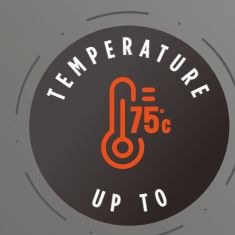
The system contains no fluorinated gases, it is 100% hydraulic.



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.



The equipment can reach temperatures up to 75°C making it the ideal solution for replacing boilers.



Efficiency class A+++ give the equipment one of the highest levels of efficiency on the market.



INTUITIVE TOUCH CONTROL PRODUCTION OF DHW AND HEATING & COOLING

INVERTER X30HT



INVERTER X60HT | X75HT | X120HT



FUNCTIONING

PRINCIPLE

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A refrigerant fluid is pumped to an external heat exchanger (evaporator). At this point, the fluid absorbs energy from the environment thanks to the temperature difference outside. During this process, the fluid changes state and becomes vapor. The gaseous fluid is then drawn in by the mechanical part of the system the compressor. In the compressor, the fluid is compressed, causing an increase in pressure and, consequently, in temperature. Next, the fluid travels to a second internal heat exchanger (condenser), where it transfers the accumulated heat to the home's heating system. As it naturally cools down, the fluid returns to its liquid state. Finally, the pressure of the fluid is reduced through throttling in the expansion valve, and the cycle begins again.

INVERTER HEAT PUMPS

SATAND 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.

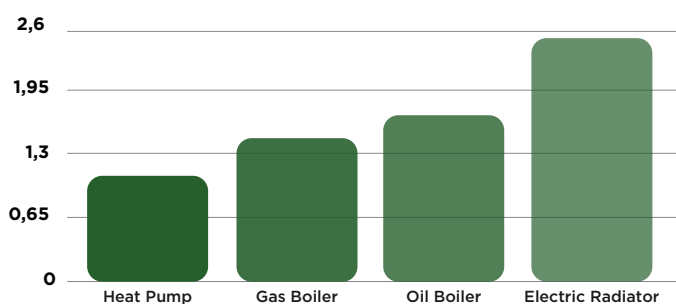
HIGH LEVEL OF EFFICIENCY

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.

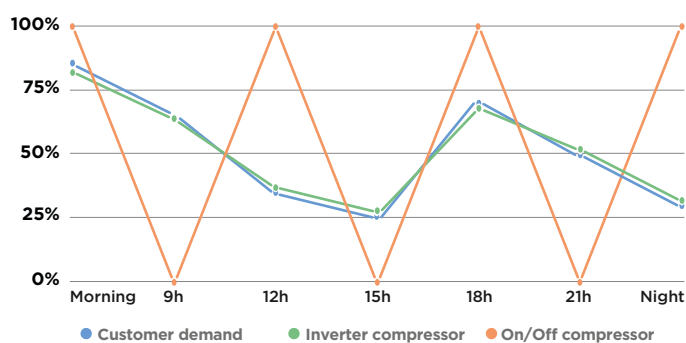
It's a smart way to use nature's resources to improve your quality of life. By adopting one of these solutions, you will be making a serious commitment to the issue of reducing harmful emissions to our atmosphere, thus contributing to the planet's natural balance. The Air/Water Heat Pumps with INVERTER 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



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

DC INVERTER TECHNOLOGY



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.

AQUAPURA INVERTER X30HT | X60HT X75HT | X120HT

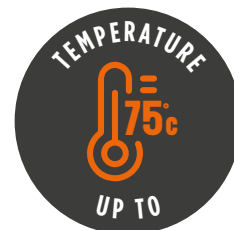
ENERGIE.PT

DOMESTIC HOT
WATER AND
CENTRAL HEATING

KEY FEATURES

- Compact design
- Touch control
- Simple installation "Plug & Use"
- Control via Smart APP
- RS485/ModBus centralized control
- Configuring operating periods
- Low operating noise
- Operation at outdoor temperatures down to -25°C

MAXIMUM
RETURN ON
INVESTMENT



AQUAPURA X30HT

- DHW production up to 75°C;
- Integrated water pump;
- Up to 960kw of capacity connecting 32 units of 30 kw/each.

AQUAPURA X60HT

- Production DHW up to 75°C;
- Up to 1920kw of capacity connecting 32 units of 60 kw/each.

AQUAPURA X75HT

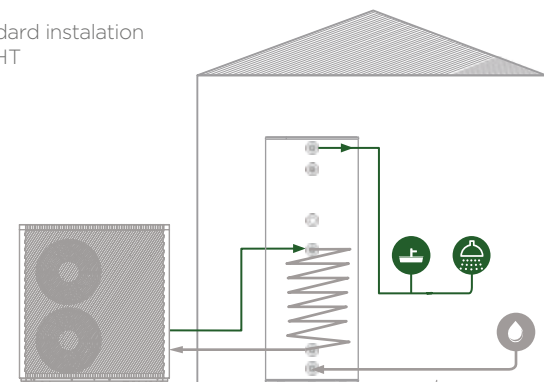
- Production DHW up to 73°C;
- Up to 2400kW of capacity connecting 32 units of 75kW/each.

AQUAPURA X120HT

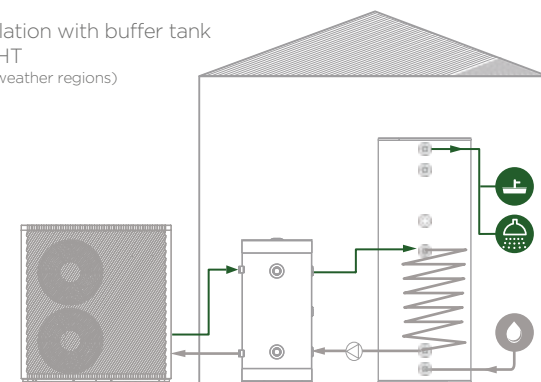
- DHW production up to 75°C;
- Up to 3840kW of capacity connecting 32 units of 120kW/each;
- High cooling performance.

DHW INSTALLATION SCENARIOS

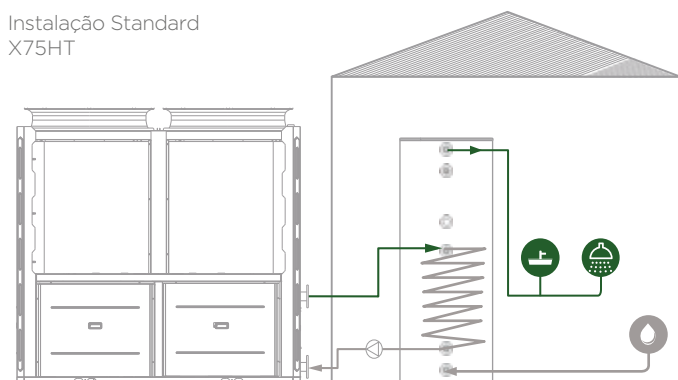
Standard instalation
X30HT



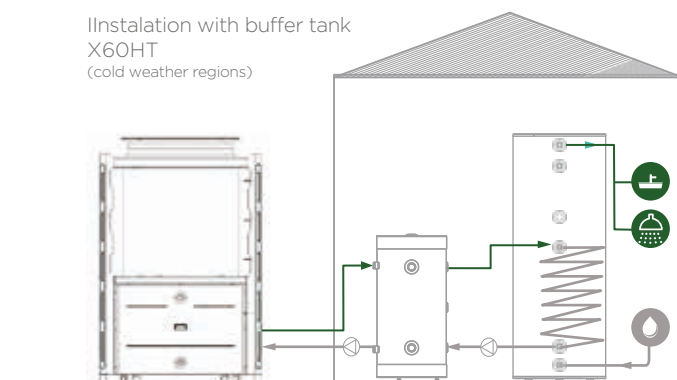
Installation with buffer tank
X30HT
(cold weather regions)



Instalação Standard
X75HT

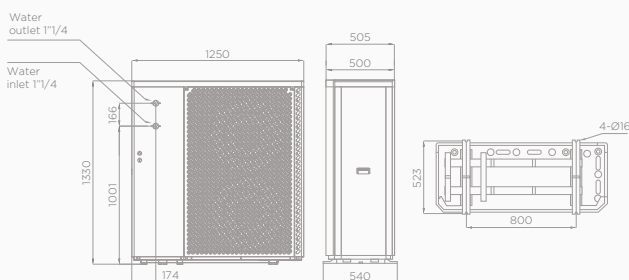


Installation with buffer tank
X60HT
(cold weather regions)

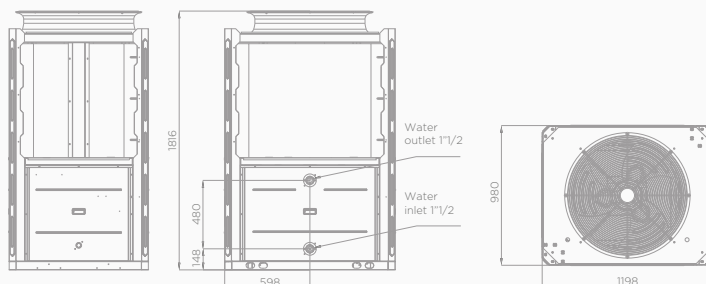


TECHNICAL DATA	UNT.	INV. X30HT	INV. X60HT	INV. X75HT	INV. X120HT
Power supply	--	380-415V/3N~/50Hz			
Refrigerant	--	R290	R290	R290	R290
Refrigerant charge /CO ₂ equivalent	kg / Ton	1,8 / 0,0055	1,5 x 2 / 0,0092	2,4 x 2 / 0,01472	4,7 x 2 / 0,0282
Heating capacity (min/max) ¹	kW	9,1 / 35,0	14,1 / 69,5	19,2 / 79,2	30,00 / 110,0
Cooling capacity (min / max) ²	kW	6,1 / 22,5	9,31 / 48,2	12,6 / 54,3	24,55 / 90,0
Maximum operating current	A	19,25	30	43,8	82
Maximum operating power	kW	12,59	19,4	28,32	50
Operating temperature limit	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43
Moisture resistance	--	IPX4	IPX4	IPX4	IPX4
¹Heating - Air temperature (DB/WB) 7°C/Water temperature (inlet/outlet) 30°C/35°C					
Nominal heating capacity	kW	28,1	54,6	67,1	99,3
Nominal power consumption	kW	6,1	12,2	14,8	21,4
COP	--	4,61	4,48	4,52	4,6
² Cooling - Air temperature (DB/WB) 35°C/ 24°C; Water temperature (inlet/outlet): 12°C/ 7°C					
Nominal cooling capacity	kW	19,5	43,2	52,1	70,7
Nominal power consumption	kW	5,5	12,4	14,8	22,0
EER	kW	3,54	3,47	3,52	3,2
Technical Specifications					
Maximum heating temperature	°C	75	75	73	75
Minimum cooling temperature	°C	7	7	7	7
Electric backup heater	Un.	Non-integrated	Non-integrated	Non-integrated	Non-integrated
Number of compressors	Un.	1	2	2	2
Compressor typology	--	DC Inverter	DC Inverter	DC Inverter	DC Inverter
Water pump	Un.	Integrated	Integrated contactor	Integrated contactor	2
Nominal water flow (Δtmax. = 7°C)	m ³ /h	3,5	6,9	8,3	12,0
Internal pressure drop of the hydraulic circuit	kPa	50	20	25	70
Number of fans	Un.	2	1	2	2
Hydraulic connections (inlet/outlet)	Inch	1" 1/4	1" 1/2	DN50	2" 1/2
Sound pressure level (1m)	dB(A)	51	53	56	60
Sound power level	dB	66	69	73	78
Net weight	kg	202	363	624	1100
Net dimensions (A x L x P)	mm	1330 x 1250 x 540	1816 x 1198 x 980	1897 x 1987 x 1056	2367 x 2275 x 1150
Erp / Performance according to EN 14825 - Average climate (+7°C)					
Energy efficiency class (35°C)	--	A+++	A+++	A+++	A+++
SCOP/η	-- / %	4,72/ 186	4,59 / 180	4,62 / 182	4,89 / 192,5
Energy efficiency class (55°C)	--	A++	A++	A++	A+++
SCOP/η	-- / %	3,49/ 136	3,43 / 134	3,71 / 145	3,93 / 154

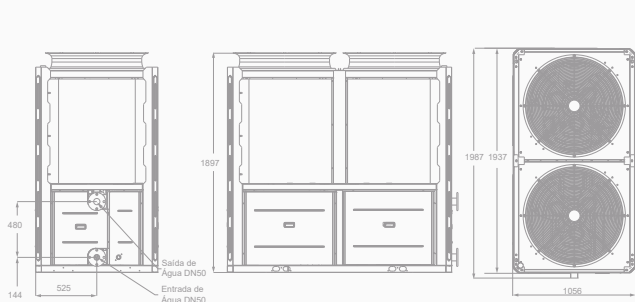
Equipment: **AQUAPURA INVERTER X30HT**



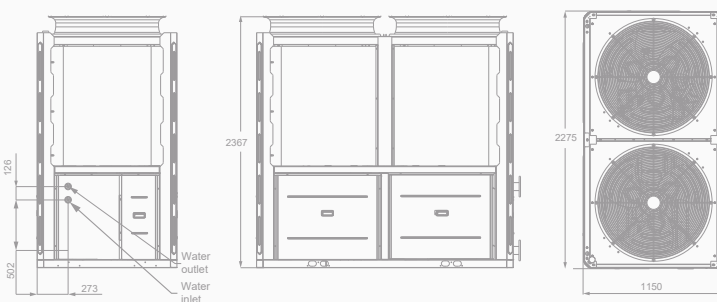
Equipment: **AQUAPURA INVERTER X60HT**



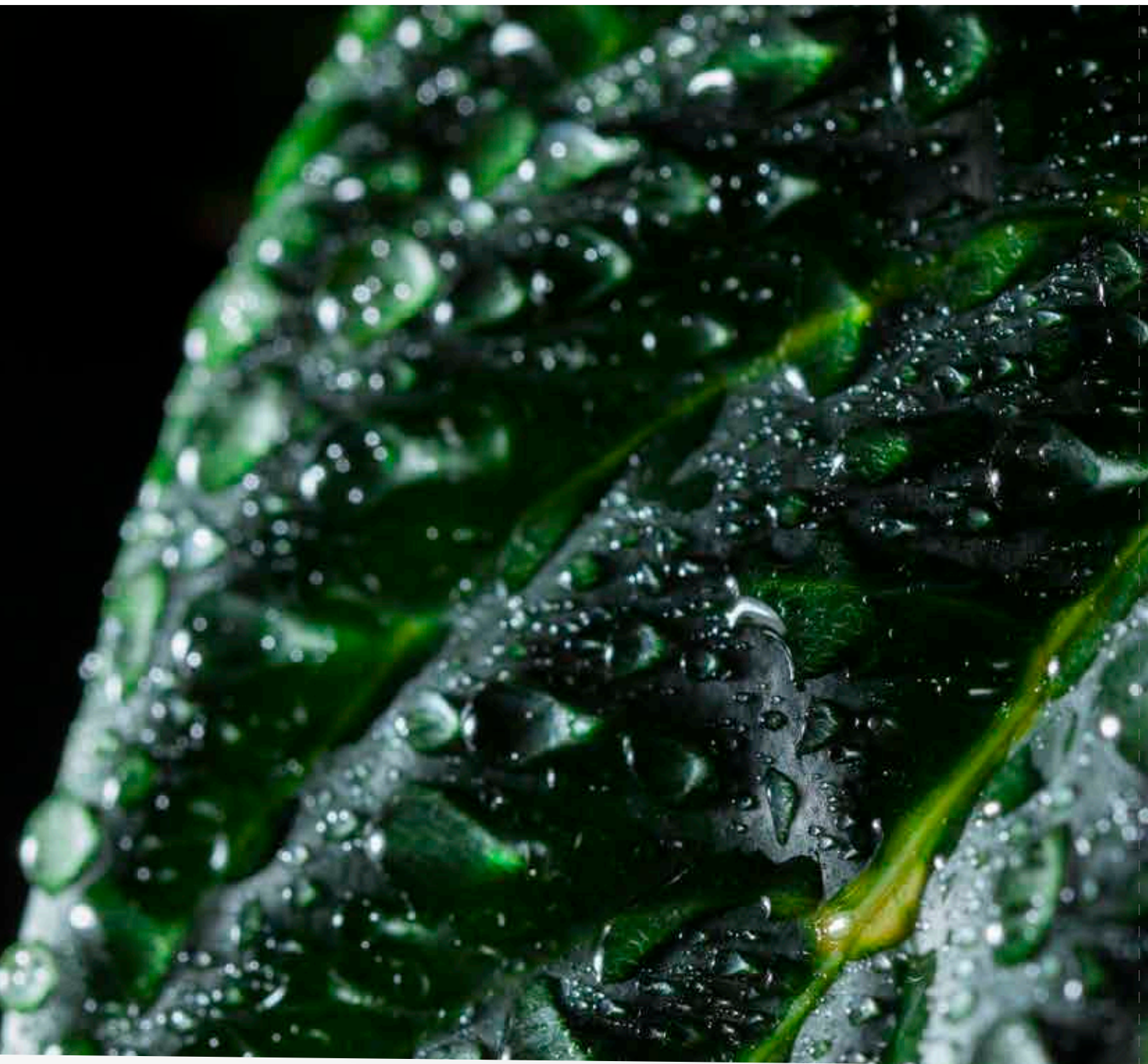
Equipment: **AQUAPURA INVERTER X75HT**



Equipment: **AQUAPURA INVERTER X120HT**



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