ENERGIE®

PORTUGUESE MANUFACTURING
SINCE 1981

NEW X120HT

AQUAPURA INVERTER X30HT | X60HT X75HT | X120HT

DOMESTIC HOT WATER AND CENTRAL HEATING

ECO-FRIENDLY - GLOBAL WARMING POTENTIAL
R290
GWP-3

AEROTHERMY HEAT PUMP.
LATEST GENERATION OF HEAT PUMP WITHNEW R290 NATURAL REFRIGERANT.

TECHNOLOGY DC INVERTER

TEMPERATURE UP TO 75c

VERY SILENT

HYDRAULIC 100% INSTALLATION

HIGH PERFORMANCE X120HT COOLING

OPERATING TEMPERATURE -25°C

THE LATEST GENERATION OF AIR / WATER HEAT PUMPS

WITH NATURAL REFRIGERANT R290

ENERGIE.PT

ECO FRENDLY

Use a natural refrigerant with less global warming potential.

TEMPERATURE UP TO 75c

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

VERY SILENT

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

ENERGY A+++ EFFICIENCY

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

EASY INSTALATION

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

SUPER POLYVALENT

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

ROBUST AND RELIABILITY

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

INTUITIVE TOUCH CONTROL

PRODUCTION OF DHW AND HEATING & COOLING

INVERTER X30HT

INVERTER X60HT | X75HT | X120HT

FUNCTIONING
PRINCIPLE

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).

CONSUMPTIO OF PRIMARY ENERGY

Compared to the diesel boiler, gas boiler or electric heater, the Heat Pump provides quality of life, with low operating costs, due to its high efficiency.

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.

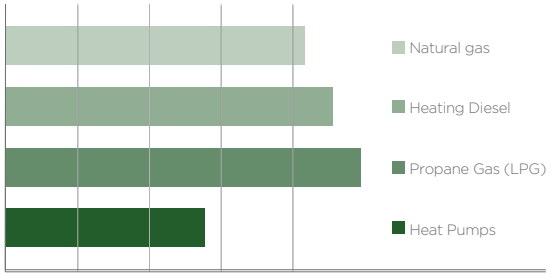
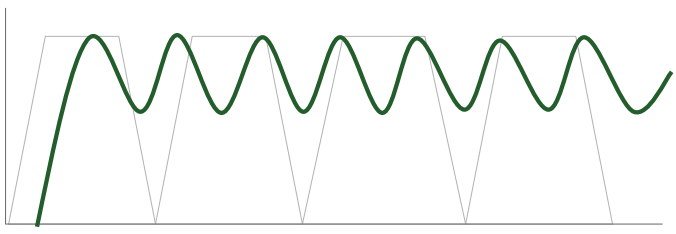


CHART OF ENERGY CONSUMPTION

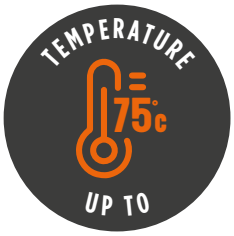


INVERTER vs TRADITIONAL Operation Period

AQUAPURA INVERTER X30HT | X60HT X75HT | X120HT

DOMESTIC HOT WATER AND CENTRAL HEATING

MAXIMUM RETURN ON INVESTMENT



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

AQUAPURA X30HT
- DHW production up to 75°C;
- Integrated water pump;
- Up to 960kw of capacity connecting 32 units of 30 kw/each.

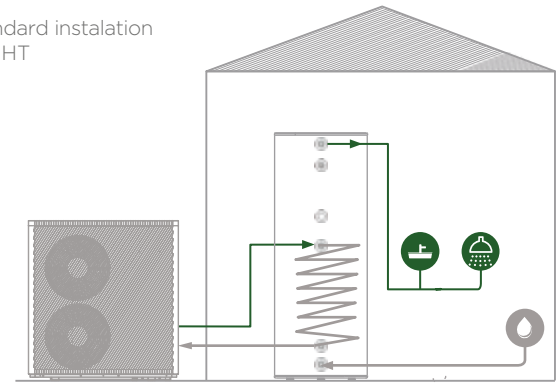
AQUAPURA X60HT
- Production DHW up to 75°C;
- Up to 1920kw of capacity connecting 32 units of 60 kw/each.

AQUAPURA X75HT
- Production DHW up to 73°C;
- Up to 2400kW of capcity connecting 32 units of 75kW/each.

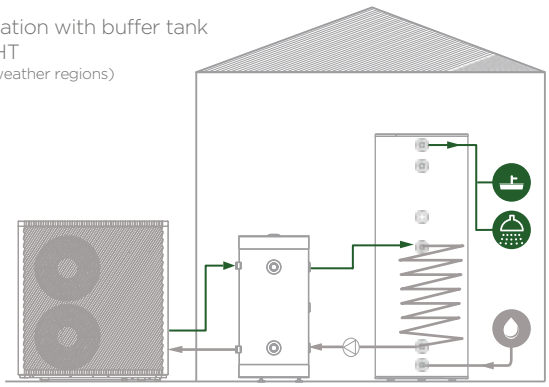
AQUAPURA X120HT
- DHW production up to 75°C;
- Up to 3840kW of capcity connecting 32 units of 120kW/each;
- High cooling performance.

DWH INSTALLATION SCENARIOS

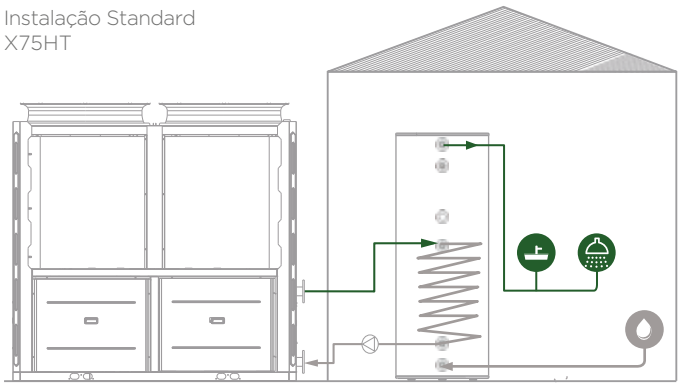
Standard instalation
X30HT



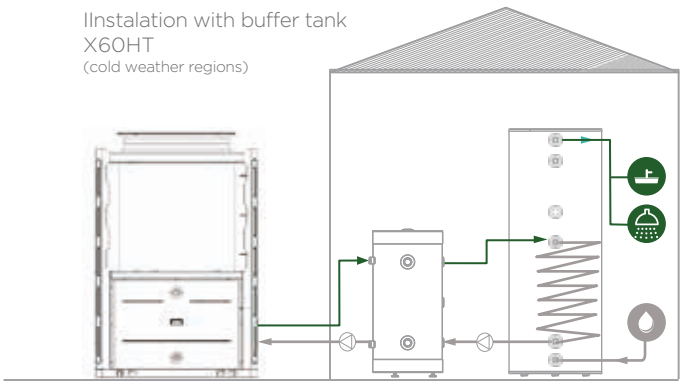
Instalation with buffer tank
X30HT
(cold weather regions)



Instalação Standard
X75HT

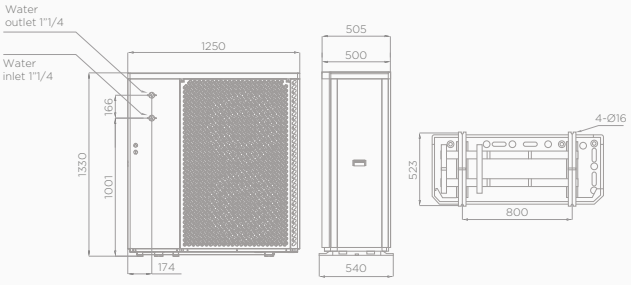


IInstalation with buffer tank
X60HT
(cold weather regions)

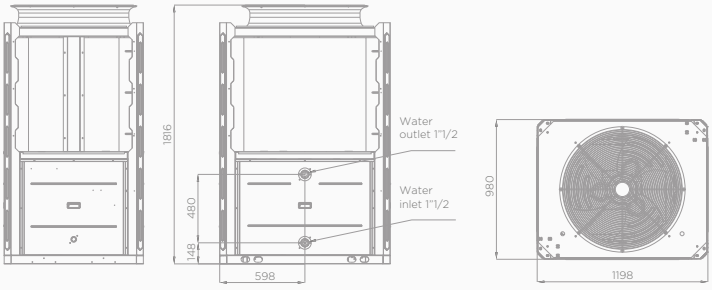


TECHNICAL DATA	UNT.	INV. X30HT	INV. X60HT	INV. X75HT	INV. X120HT
Power supply	--		380-415V/3N-/50Hz		
Refrigerant	--	R290	R290	R290	R290
Refrigerant charge /CO_2 equivalent	kg / Ton	1,8 / 0,0055	1,5 x 2 / 0,0092	2,4 x 2 / 0,01472	4,7 x 2 / 0,0282
Heating capacity (min/max) [1]	kW	9,1 / 35,0	14,1 / 69,5	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	20	30	45	82
Maximum operating power	kW	13,1	24	36	50
Operating temperature limit	ºC	-25 / 43	-25 / 43	-25 / 43	-25 / 43
Moisture resistance	--	IPX4	IPX4	IPX4	IPX4
[1] Heating - 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	12,18	14,84	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	ºC	75	75	73	75
Minimum cooling temperature	ºC	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. = 7ºC)	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 (+7ºC)					
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

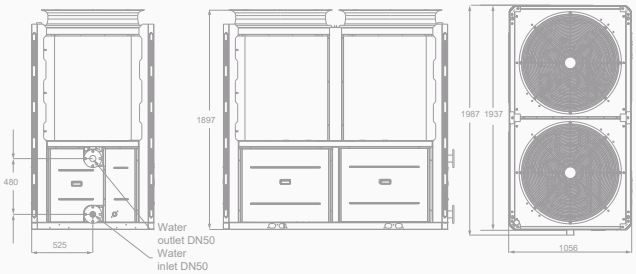
Equipment: **AQUAPURA INVERTER X30HT**



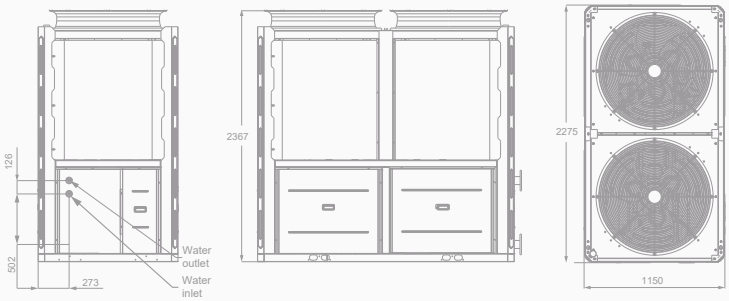
Equipment: **AQUAPURA INVERTER X60HT**

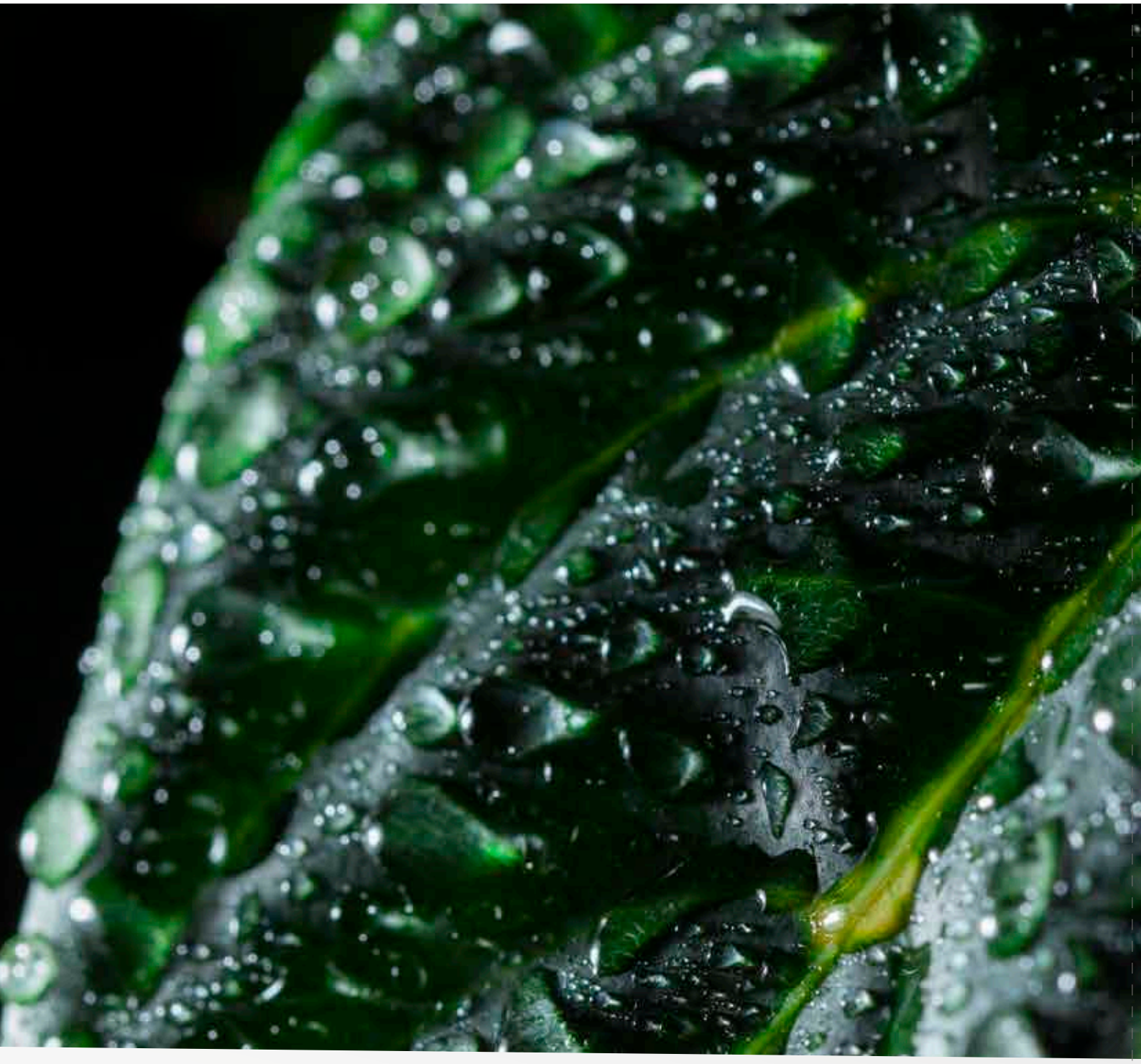


Equipment: **AQUAPURA INVERTER X75HT**



Equipment: **AQUAPURA INVERTER X120HT**





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