













THE LATEST GENERATION OF AIR / WATER HEAT PUMPS WITH NATURAL REFRIGERANT R290



Use a natural refrigerant with less global warming potential.



almost imperceptible from a few metres away when in operation.





The equipment can reach making it the ideal solution



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



The system contains no fluorinated gases,



regardless of the use: heating, cooling or production of DHW



The equipment has an

INTUITIVE TOUCH CONTROL PRODUCTION OF DHW AND HEATING & COOLING





FUNCTIONING

PRINCIPIF

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

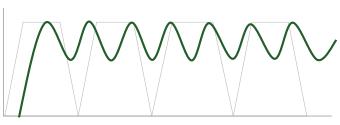
Compared to the diesel boiler, gas boiler or electric heater, the Heat Pump provides quality of life, with low operating costs, due to its high efficiency.

■ Natural gas ■ Heating Diesel ■ Propane Gas (LPG) ■ Heat Pumps

CHART OF ENERGY CONSUMPTION

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.



INVERTER VS TRADITIONAL

Operation Period

AQUAPURA INVERTER X30HT | X60HT | 75HT

DOMESTIC HOT WATER AND CENTRAL HEATING

MAXIMUM RETURN ON INVESTMENT



KFY FFATURES

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

AQUAPURA X30HT

- DHW production up to 75°C
- Integrated water pump
- Up to 120 kw of capacity connecting 4 units of 30 kw/each

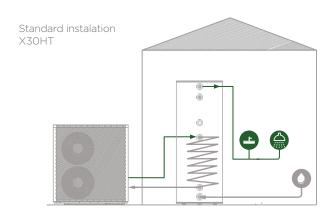
AQUAPURA X60HT

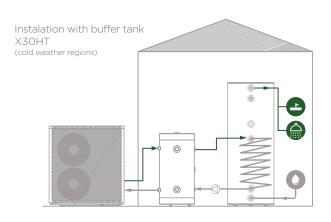
- Production DHW up to 70°C
- •Up to 240 kw of capacity connecting 4 units of 60 kw/each

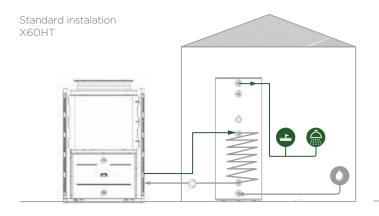
AQUAPURA X75HT

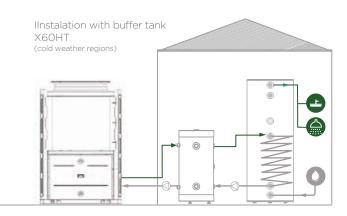
- Production DHW up to 70°C
- Up to 300kW of capcity connecting 4 units of 75kW/each

DWH INSTALLATION SCENARIOS



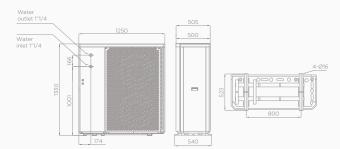




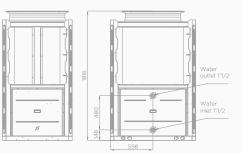


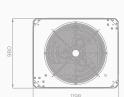
TECHNICAL DATA	UNT.	INV. X30HT	INV. X60HT	INV. X75HT
Power supply			380-415V/3N~/50Hz	
Refrigerant		R290	R290	R290
Refrigerant charge /CO ₂ equivalent	kg / Ton	1,8 / 0,0055	1,5 x 2 / 0,0092	2,4 x 2 / 0,01472
Heating capacity (min/max)	kW	9,1 / 35,0	14,1 / 69,5	19,2 / 79,2
Cooling capacity (min / max)	kW	6,1 / 22,5	9,31 / 48,2	12,6 / 54,3
Maximum operating current	А	20	30	45
Maximum operating power	kW	13,1	19,7	29,5
Operating temperature limit	°C	-25 / 43	-25 / 43	-25 / 43
Moisture resistance		IPX4	IPX4	IPX4
Heating - Air temperature (DB/WB) 7°C/Water te	mperature (inlet/o	utlet) 30°C/35°C		
Nominal heating capacity	kW	28,1	54,6	67,1
Nominal power consumption	kW	6,1	12,18	14,84
COP		4,61	4,48	4,52
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
Nominal power consumption	kW	5,5	12,4	14,8
EER	kW	3,54	3,47	3,52
Technical Specifications				
Maximum heating temperature	°C	75	75	75
Minimum cooling temperature	°C	7	7	7
Electric backup heater	Un.	Non-integrated	Non-integrated	Non-integrated
Number of compressors	Un.	1	2	2
Compressor typology		DC Inverter	DC Inverter	DC Inverter
Water pump	Un.	Integrated	Integrated contactor	Integrated contactor
Nominal water flow (∆tmax. = 7°C)	m³/h	3,5	6,9	8,3
Internal pressure drop of the hydraulic circuit	kPa	50	20	25
Number of fans	Un.	2	1	2
Hydraulic connections (inlet/outlet)	Inch	1" 1/4	1" 1/2	DN50
Sound pressure level (1m)	dB(A)	51	53	56
Sound power level	dB	66	69	73
Net weight	kg	202	363	624
Net dimensions (A x L x P)	mm	1330 x 1250 x 540	1816 x 1198 x 980	1897 x 1987 x 1056
Erp / Performance according to EN 14825 - Avera	ge climate (+7°C)			
Energy efficiency class (35°C)		A+++	A+++	A+++
SCOP/n	/ %	4,72/186	4,59 / 180	4,62 / 182
Energy efficiency class (55°C)		A++	A++	A++
SCOP/η	/ %	3,49/136	3,43 / 134	3,71 / 145

Equipment: AQUAPURA INVERTER X30HT

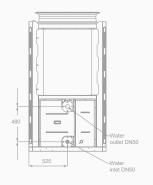


Equipment: AQUAPURA INVERTER X60HT

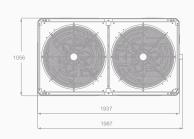




Equipment: AQUAPURA INVERTER X75HT







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