ENERGIE®

PORTUGUESE MANUFACTURING
SINCE 1981

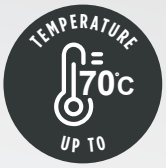
NEW

AQUA 250HP

WATER / WATER HEAT PUMP



HEAT PUMP
OUTDOOR MODULE
THE BEST OPTION FOR
HEATING WATER IN COMMERCIAL
AND INDUSTRIAL APPLICATIONS:
- INDUSTRIAL PROCESS HEATING
- HOSPITALS / HOTELS
- GAS BOILER REPLACEMENT
- COMMERCIAL SPACES









A NEW WATER / WATER HEAT PUMP SOLUTION

With forecasts indicating that 84% of European citizens will live in urban areas by 2050, future heating solutions must prioritize urban applications to deliver maximum environmental benefits. The EU Heat Roadmap sets ambitious decarbonisation targets, aiming to increase smart Heating & Cooling networks to 30% by 2030 and 50% by 2050.
Our high-power ground source Heat Pumps can cut 80% of your installation's energy consumption by harnessing a renewable energy source that significantly reduces CO_2 emissions. Advanced algorithms allow these Heat Pumps to deliver simultaneous Heating & Cooling, efficiently meeting the thermal demands of a wide range of industrial and large-scale installations.

PORTUGUESE MANUFACTURING





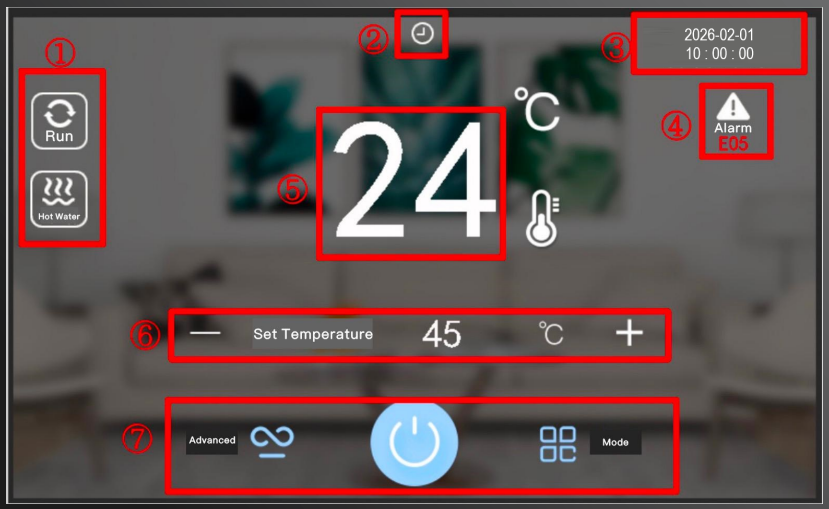
KEY FEATURES

- **HIGH PERFORMANCE**: With geothermal technology, the Heat Pump operates more efficiently, significantly saving energy compared to conventional systems.
- **APPLICATION**: Regardless of the building size, whether a home, an office or a large commercial facility, a Heat Pump provides customized and efficient solutions.
- **ROBUST AND COMPACT**: Durable and reliable, the Heat Pump operates consistently throughout the year, unaffected by weather.
- **FLEXIBLE INSTALLATION**: Due to this compact design, it can be installed in different locations, including rooftops and basements.
- **REMOTE CONTROL**: This product can be equipped with an optional GPRS module for remote control via mobile devices and supports 485 communication, allowing it to be connected to remote devices for integrated control.
- **CENTRAL MANAGEMENT**: A single central display can manage up to 8 Heat Pumps, balancing operation and extending the Heat Pump's operating life.

TACTILE AND INTUITIVE CONTROLLER

DHW PRODUCTION AND CLIMATE CONTROL

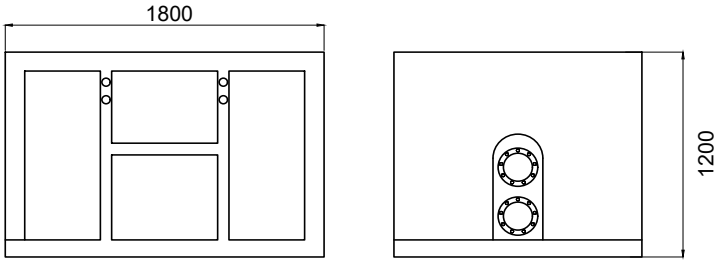
The AQUA Heat Pump controller is a user-friendly and intuitive interface that allows:
- Temperature timer and power timer
- Set function
- Set interface
- Sattus inquiry function
- Status inquiry function
- System time setting

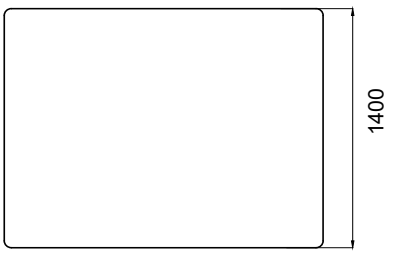


1- Operating Status ; **2-** Timer Function; **3-** Current TIme; **4-** Alarm Notifications; **5-** Current Temperature; **6-** Adjust Set Temperature
7- Button ON/OFF; Button "Advanced" to enter in Menu Interface; Button "Mode" to Switch between cooling and heating mode

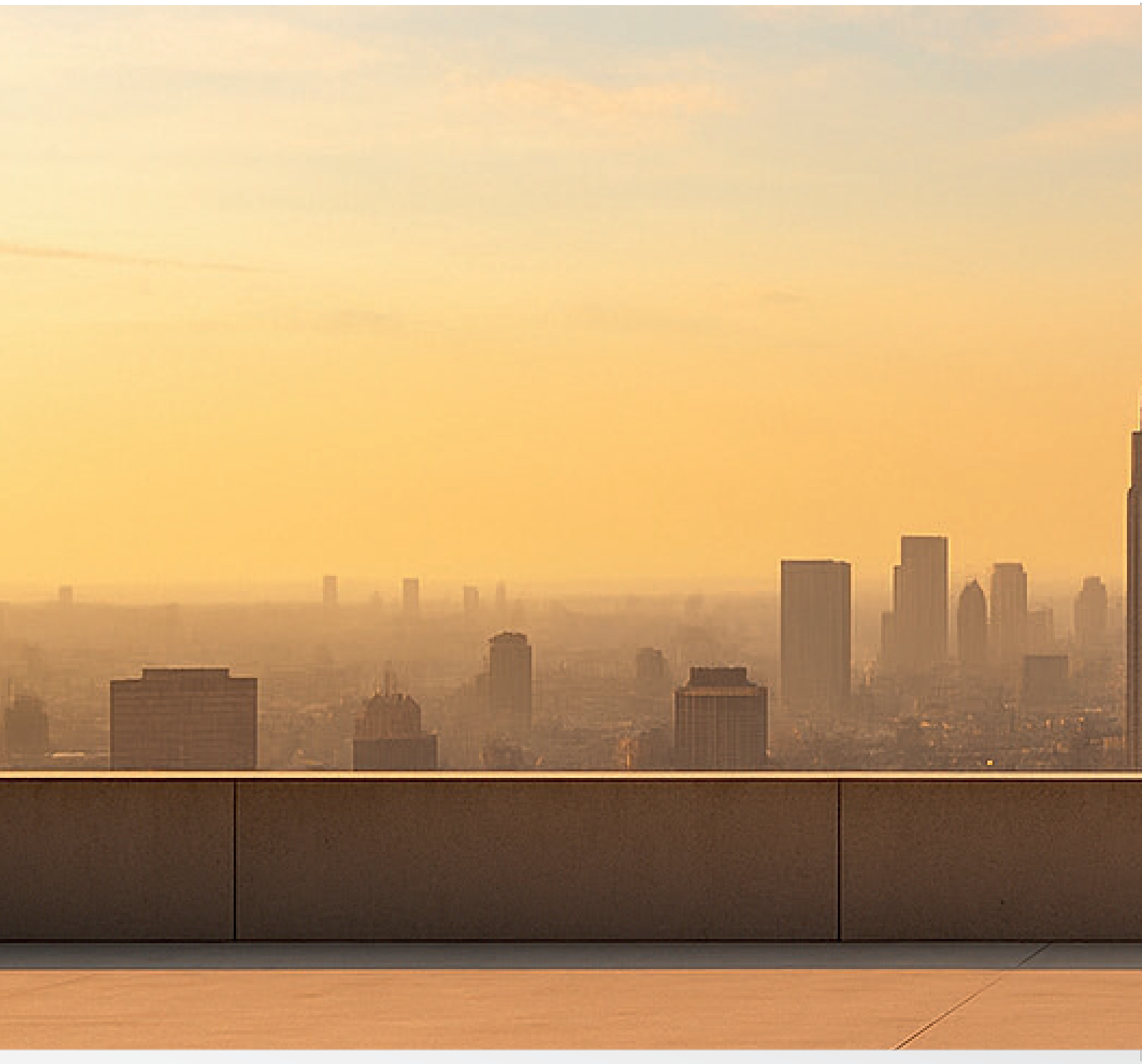
TECHNICAL DATA		UNIT	AQUA HP 250kW
Heating*			
	Heating capacity	kW	258,20
	Power input	kW	56,62
	COP		4,56
Heating**			
	Heating capacity	kW	199,14
	Power input	kW	51,52
	COP		3,87
Heating***			
	Heating capacity	kW	172,94
	Power input	kW	35,68
	COP		4,85
Cooling**			
	Cooling capacity	kW	150.56
	Power input	kW	51,52
	COP		2,92
Evaporator			
	Water flow	m^3/h	39,30
	Water pressurre drop	kPa	50,00
	Water connection		DN80
Condenser			
	Water flow	m^3/h	44,40
	Water pressurre drop	kPa	48,00
	Water connection		DN80
Dimensions & Weight			
	Length x Width x Height	mm	1800 x 1400 x 1200
	Weight	kg	850
Refrigerant			
	Type		R134a
Electrical connections			
	Power supply	V / Ph / Hz	380-415V / 3N~/ 60Hz
	Current	A	135
Compressor			
	Type		Danfosss SZ380A9CBF
	Quantity	Unit	2
Sound			
	Sound power	dB(A)	65,0

* Heat source water inlet/outlet 35/30°C: Inlet/outlet water temperature user side 55/60°C. Based on EN14511.
** Heat source water inlet/outlet 20/15°C: Inlet/outlet water temperature user side 45/55°C. Based on EN14511.
*** Heat source water inlet/outlet 10/7°C: Inlet/outlet water temperature user side 30/35°C. Based on EN14511.





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