



HTAURUS TECH



Heat pumps featuring hermetic scroll compressors with R410A.

Nominal cooling capacity 66 – 141 kW | Nominal heating capacity 76 – 160 kW



Excellence in residential and commercial air-conditioning.

The air-cooled heat pumps HTAURUS TECH always meet the requirements of residential and commercial air conditioning applications, thanks to their versatility and easy installation. The HTAURUS TECH range already meets the performance requirements of the ErP Regulation EcoDesign, combining highest level of seasonal efficiency with huge customization possibilities, to allow the installation on every system. Reduced management and installation costs, maximum reliability and environmental protection make heat pumps HTAURUS TECH the right choice for today and tomorrow installations.



Cooling, conditioning, purifying.

Advantages

- HE version, High Efficiency;
- SHE and SSN version with super low noise levels;
- High efficiency performances at full load (EER and COP);
- High value of SCOP efficiency, compliant with requirements of Regulation ERP EcoDesign;
- Wide operating limits for starting up and functioning even in the worst conditions;
- Optimisation of performance also in heating mode thanks to hot gas injection and the DDS defrosting system;
- Wide range of options and kits for easy installation;
- Easy access to all components.

Main options

- Single or double water pump with low or medium head pressure;
- Water accumulation tank;
- IN/OUT compressors' valves;
- High efficiency Brushless EC condenser fans;
- Protection coating for condenser coils, suitable for installation in aggressive environments;
- Antifreeze heaters for evaporator pump/s and tank;
- Protection of the hydraulic group by means of panels or metallic mesh;
- Metallic mesh or filters for condenser coil protection;
- Soft starters to reduce by 30% the starting current.
- Partial heat recovery;
- -20 °C option: it allows the units to operate down to -20 °C ambient temperature in cooling mode (it is mandatory to protect the hydraulic circuit with antifreeze additives).

Sales kit

- Anti-vibration mounts kit;
- Remote control kit: VICX620 display LED, VG1890 display LCD semi-graphic (max 150 m);
- Gateway Modbus/Trend Kit;
- Supervisor kits: RS485 ModBus, xWEB300D.

Models HTAT HE		030	035	040	050	055	060	065
Nominal cooling capacity [1]	kW	66	71,1	86	102	113	123	141
Total absorbed power [1]	kW	24	26,2	32	34,4	39,5	44,8	51,3
EER [2]		2,79	2,72	2,64	2,96	2,85	2,74	2,75
Max external air temperature [3]	°C	46	46	46	46	46	46	46
Nominal heating capacity [4]	kW	76	82,2	98	114	127	139	160
Total absorbed power [4]	kW	26	28,4	33	36,8	41,2	45,5	52,2
COP [5]		2,90	2,89	2,96	3,11	3,07	3,05	3,07
SCOP [6]		3,24	3,25	3,36	3,36	3,38	3,41	3,52
ErP efficiency class [6]		A+	A+	A+	A+	A+	A+	A+
Min external air temperature [7]	°C	-9	-9	-8	-10	-10	-10	-9
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50						
Circuits / Compressors	N°	1/2						
Sound power [8]	dB(A)	87	87	87	90	90	89	90
Sound pressure [9]	dB(A)	59	59	59	62	62	61	62
Depth	mm	1110	1110	1110	1110	1110	1110	1110
Width	mm	2507	2507	2507	3407	3407	3407	3407
Height	mm	2140	2140	2140	2140	2140	2140	2140
Installed weight	kg	789	821	968	1172	1230	1267	1313

Data declared according to UNI EN 14511:2013.

- (1) **Nominal cooling capacity and Nominal absorbed power:** data referred to nominal conditions, external ambient temperature 35 °C and evaporator water temperature IN/OUT 12/7 °C;
- (2) **EER:** data referred to the full load functioning and nominal conditions, external ambient temperature 35 °C and evaporator water temperature IN/OUT 12/7 °C;
- (3) **Maximum external air temperature:** data declared referred to cooling mode and outlet water temperature 7 °C;
- (4) **Nominal heating capacity and Nominal absorbed power:** data referred to nominal conditions external ambient temperature 7 °C, relative humidity 87%, condenser IN/OUT 40/45 °C;
- (5) **COP:** data referred to the full load functioning and nominal conditions, external ambient temperature 7 °C, relative humidity 87%, condenser IN/OUT 40/45 °C;
- (6) **SCOP:** data declared according to the European Regulation 813/2013 for heat pumps at low temperature (BT) in average climate conditions (Strasbourg) and variable outlet water temperature;
- (7) **Minimum external air temperature:** data declared with: heating mode and outlet water temperature 45 °C;
- (8) **Sound power:** determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (9) **Sound pressure at 10 m:** average value obtained in free field on a reflective surface at a distance of 10 m from the external side of the electrical panel of machine and at a height of 1,6 m from the unit support base. Values with tolerance ± 2 dB. The sound levels refer to operation of the unit under full load in nominal conditions and with circulation pump.

The listed noise levels, weights and dimensions refer to base units with no options fitted.

Standard features

- Environment friendly refrigerant R410A;
- Hermetic Scroll compressors, tandem installation in single circuit configuration;
- Crankcase heater and phase-monitor;
- Axial fans, developed on the basis of bionic principles that allow to achieve high performance with low noise emissions;
- Electrical panel protection rating IP54;
- Parametric microprocessor control IC208CX;
- Thermostatic expansion valve;
- Air-cooled condensers (copper tubes/aluminium fins) with longitudinal "V" formation;
- High and low refrigerant pressure switches;
- Refrigerant pressure gauges.

Versions

- HE - High energy efficiency and basic acoustic configuration;
- SHE - High energy efficiency and low noise acoustic configuration;
- SSN - Standard energy efficiency and very low noise acoustic configuration; not available on model 065.



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.



MTA participates in the E.C.C. programme for LCP-HP. Certified products are listed on: www.eurovent-certification.com
Certification applied to the units:
- Air/Water up to 600 kW
- Water/Water up to 1500 kW



EAC Declaration

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