



# HTAURUS TECH



Heat pumps featuring hermetic scroll compressors with R410A.

Nominal cooling capacity 64 - 135 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).

## Standard features

- 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.

## Sales kit

- Anti-vibration mounts kit;
- Remote control kit: VICX620 display LED, VGI890 display LCD semi-graphic (max 100 m);
- Supervisor kits: RS485 ModBus, xWEB300D EVO.

## 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.

Models HTAT	30			35			40			50			55			60			65			
Versions	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	HE	SHE	SSN	
Nominal cooling capacity [1]	kW	64,1	62,3	59,7	68,6	66,6	63,5	82,6	79,6	75,0	98,2	95,7	94,2	108,6	105,4	103,4	118,6	114,6	112,2	135,9	130,3	-
Total absorbed power [1]	kW	23,9	23,6	24,2	26,3	26,2	27,1	32,7	33,1	34,9	34,6	34,1	33,4	39,7	39,6	39,2	45,1	45,5	45,4	51,7	53,0	-
EER [2]		2,68	2,64	2,47	2,61	2,54	2,34	2,53	2,40	2,15	2,84	2,81	2,82	2,74	2,66	2,64	2,63	2,52	2,47	2,63	2,46	-
Max external air temperature [3]	°C	46	46	46	46	46	46	46	46	44	46	46	46	46	46	46	46	46	46	46	46	-
Nominal heating capacity [4]	kW	76,4	75,2	74,1	82,2	80,8	79,5	97,4	95,5	93,6	114,2	112,2	110,3	126,6	124,2	121,9	138,6	135,8	133,1	160,1	155,7	-
Total absorbed power [4]	kW	26,3	25,1	24,1	28,4	27,1	26,2	32,8	31,6	30,6	36,8	34,8	33,3	41,2	39,3	37,6	45,6	43,6	42,1	52,2	50,3	-
COP [5]		2,91	3,00	3,07	2,90	2,98	3,04	2,97	3,02	3,06	3,10	3,22	3,31	3,08	3,16	3,24	3,04	3,11	3,16	3,07	3,10	-
SCOP [6]		3,25	3,56	3,86	3,25	3,56	3,84	3,36	3,63	3,87	3,36	3,69	4,02	3,38	3,71	4,03	3,40	3,66	3,90	3,52	3,77	-
ErP efficiency class [6]		A+	A+	A+	A+	A+	A+	A+	A+	A++	A+	A+	A++	A+	A+	A++	A+	A+	A++	A+	A+	-
Min external air temperature [7]	°C	-9	-8	-7	-9	-8	-7	-7	-6	-6	-10	-9	-8	-10	-9	-7	-9	-8	-6	-9	-8	-
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																				
Circuits / Compressors	N°	1/2																				
Sound power [8]	dB(A)	88	83	80	87	82	79	87	82	79	90	84	81	90	84	81	89	84	80	90	84	-
Sound pressure [9]	dB(A)	60	55	52	59	54	51	59	54	51	62	56	53	62	56	53	61	56	52	62	56	-
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	802			836			985			1172			1221			1246			1298		

**Data declared according to UNI EN 14511:2018. All data refers to standard units without accessories/options which require an electrical feeding source and in nominal working conditions. The data declared in this document anticipate those that will be published in the next release Eurovent on november.**

- (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 without accessories/options.

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



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](http://www.eurovent-certification.com) Certification applied to the units:  
- Air/Water up to 600 kW  
- Water/Water up to 1500 kW



EAC Declaration

**M.T.A. S.p.A.**  
Business Office

Viale Spagna, 8 - ZI  
35020 Tribano (PD) - Italy  
Tel. +39 049 9588611  
Fax +39 049 9588612  
[info@mta-it.com](mailto:info@mta-it.com)  
[www.mta-it.com](http://www.mta-it.com)



Cooling, conditioning, purifying.