

TAURUS TECH



Air-cooled water chillers featuring hermetic scroll compressors with R410A.

Nominal cooling capacity 71 – 152 kW



Excellence in residential and commercial air-conditioning.

The air-cooled water chillers TAURUS TECH always meet the requirements of residential and commercial air conditioning applications, thanks to their versatility and easy installation. The TAURUS 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 chiller TAURUS 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);
- High value of SEER efficiency, compliant with requirements of Regulation ERP EcoDesign;
- Wide operating limits for starting up and functioning even in the worst conditions;
- Wide range of options and kits for easy installation;
- Easy access to all components.

Standard features

- Environment friendly refrigerant R410A;
- Hermetic Scroll compressors 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

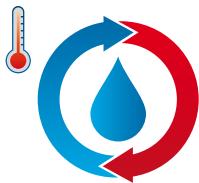
- Anti-vibration mounts kit;
- Remote control kit: VICX620 display LED, VG1890 display LCD semi-graphic (max 150 m);
- Gateway Modbus/Trend Kit;
- Supervisor kits: RS485 ModBus, xWEB300D.

Main options

- Shell and tube evaporator;
- Single or double water pump with low or medium head pressure;
- Water accumulation tank;
- Electronic expansion valve;
- 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.
- Total or partial heat recovery;
- -20 °C option: it allows the units to operate down to -20 °C ambient temperature (it is mandatory to protect the hydraulic circuit with anti-freeze additives).

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.



Integrated partial or total heat recovery systems.



Advanced IC208CX microprocessor digital controller.



External supervisor systems.



All models are individually tested in order to check correct operation.

Models TAT		030			035			040			050			055			060			065		
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	71,5	69,6	66,8	76,6	74,3	70,9	92,2	88,9	83,9	109,4	106,6	104,8	121,0	117,4	115,1	132,0	127,5	124,7	151,8	146,1	-
Total absorbed power [1]	kW	23,9	23,7	24,2	26,3	26,3	27,1	32,7	33,2	34,9	34,8	34,3	33,7	39,8	39,8	39,4	45,3	45,8	45,8	51,7	52,8	-
EER [2]		3,00	2,90	2,80	2,90	2,80	2,60	2,80	2,70	2,40	3,10	3,10	3,10	3,00	3,00	2,90	2,80	2,80	2,70	2,70	2,80	-
SEER [3]		3,89	3,97	3,90	3,89	3,96	3,94	3,94	3,93	3,97	3,96	4,11	4,28	4,02	4,19	4,37	3,81	3,85	4,02	4,07	4,12	-
Max external air temperature [4]	°C	46	46	46	46	46	46	46	46	44	46	46	46	46	46	46	46	46	46	46	46	-
Power supply	V/Ph/Hz	400 ± 10% / 3-PE / 50																				
Circuits / Compressors	N°	1/2																				
Sound power [5]	dB(A)	88	83	80	87	82	79	87	82	79	90	84	81	90	84	81	89	84	80	90	84	-
Sound pressure [6]	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	688			732			823			1010			1028			1052			1104		

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) **SEER:** data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers;
- (4) **Maximum external air temperature:** data declared referred to cooling mode and outlet water temperature 7 °C;
- (5) **Sound power:** determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (6) **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 chillers with no options 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
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.

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



Cooling, conditioning, purifying.