



GALAXYTECH



Air cooled water chillers featuring hermetic scroll compressors with R410A.
Nominal cooling capacity 1002 - 1395 kW



Precision and reliability for process cooling applications.

The GALAXY Tech range is the MTA product specific for cooling of large process cooling applications. It has been developed to ensure maximum efficiency at full load and, thanks to the multi-scroll technology, a precise regulation according to thermal load variations.

The multi-scroll solution, allowing the division of the total refrigerating capacity on a large number of steps, is also indicated for those installations where redundancy is a must, in order to ensure the continuous operation of the production process.



Cooling, conditioning, purifying.

Benefits

- High value of SEPR 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;
- Advanced electronic control with integrated web server;
- Supervision system connectivity.

Options

- Low water temperature configuration (up to -10 °C outlet water temperature);
- Single water pump with low or medium head pressure;
- Twin water pumps with low head pressure;
- IN/OUT compressors valves;
- High efficiency EC brushless fans (base equipment for SSN version);
- Protection coating for condenser coils, suitable for installation in aggressive environments;
- Antifreeze heaters for evaporator and pump/s;
- Metallic mesh filters for condenser coil protection;
- Compressors housing (for HE version);
- Soft starters to reduce by 20% the unit's starting current.

Versions

- HE - basic acoustic configuration;
- SHE - low noise acoustic configuration;
- SSN - very low noise acoustic configuration;
- Low ambient air temperature version, down to -20 °C.

Standard features

- Refrigerant R410A;
- Multiple scroll compressors (9 or 12 depending on the model) connected in parallel (trio) on 3 or 4 independent refrigeration circuits;
- Shell & tube evaporator;
- Electronic microprocessor controller with high computing capacity and an easy to use graphical interface;
- 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 protection rating IP54;
- Electronic expansion valves;
- Refrigerant charge, non-freezing oil and tests performed in the factory;
- Modbus RS485 serial output for connection to supervision systems;
- Serial connection to supervision systems;
- Master/slave configuration manageable between 2 units.

Kits

- Antivibration mountings kit;
- Replicated remote user terminal kit;
- Supervision system xWEB300D EVO;
- Modularity kit for xDRIVE (master/slave from 3 to 8 units).

| Models GLT | Versions | 270 | | | 300 | | | 330 | | | 360 | | |
|------------------------------|----------|-----------------------|------|------|------|------|------|------|------|------|-------|------|------|
| | | HE | SHE | SSN | HE | SHE | SSN | HE | SHE | SSN | HE | SHE | SSN |
| Nominal cooling capacity [1] | kW | 1002 | 942 | 957 | 1078 | 1024 | 1038 | 1239 | 1171 | 1189 | 1395 | 1313 | 1334 |
| Total absorbed power [1] | kW | 225 | 235 | 229 | 234 | 242 | 236 | 275 | 285 | 278 | 317 | 329 | 320 |
| EER [2] | | 4,45 | 4,01 | 4,19 | 4,60 | 4,23 | 4,41 | 4,50 | 4,10 | 4,28 | 4,40 | 3,99 | 4,16 |
| SEPR HT [3] | | 5,59 | 5,71 | 5,85 | 5,69 | 5,68 | 6,07 | 5,62 | 5,58 | 5,93 | 5,55 | 5,52 | 5,86 |
| Max external air temp. [4] | °C | 47 | 44 | 45 | 47 | 45 | 46 | 47 | 45 | 46 | 47 | 45 | 46 |
| Power supply | V/Ph/Hz | 400 ± 10% / 3-PE / 50 | | | | | | | | | | | |
| Circuits / Compressors | N° | 3/9 | | | 4/12 | | | 4/12 | | | 4/12 | | |
| Sound power [5] | dB(A) | 99 | 91 | 86 | 99 | 91 | 86 | 100 | 92 | 87 | 101 | 93 | 88 |
| Sound pressure [6] | dB(A) | 71 | 63 | 58 | 71 | 63 | 58 | 72 | 64 | 59 | 73 | 65 | 60 |
| Depth | mm | 7510 | | | 8500 | | | 9490 | | | 10480 | | |
| Width | mm | 2190 | | | 2190 | | | 2190 | | | 2190 | | |
| Height | mm | 2425 | | | 2425 | | | 2425 | | | 2425 | | |
| Installed weight | kg | 6350 | | | 7050 | | | 7720 | | | 8450 | | |

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.

- (1) Nominal cooling capacity and nominal absorbed power: data referred to nominal conditions, external ambient temperature 25 °C and evaporator water temperature IN/OUT 20/15 °C;
 - (2) EER: data referred to the full load functioning and nominal conditions, external ambient temperature 25 °C and evaporator water temperature IN/OUT 20/15 °C;
 - (3) SEPR HT: 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 15 °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 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.
- The listed noise levels, weights and dimensions refer to base units 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.



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
 www.mta-it.com



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