

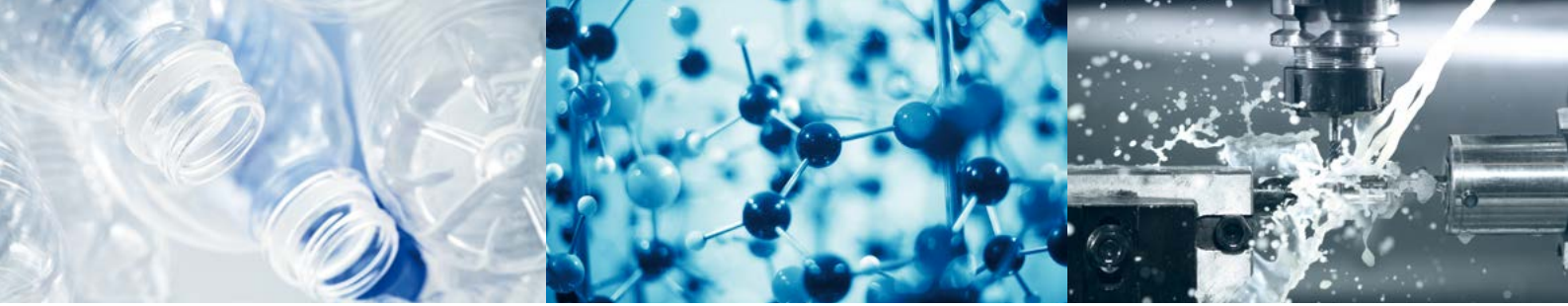
INDUSTRIAL PROCESS COOLING SOLUTIONS

Reliable and efficient solutions for your industrial processes



*Engineered for
real industrial performance*





Your trusted partner for industrial process cooling.

MTA was founded in 1982, with a strong focus on high quality and technically advanced products for industry, supported by dedicated service. We build long-term partnerships and provide reliable support for all industrial requirements.

We ensure your processes keep running, at all times and in all conditions. Whatever your application, however challenging your conditions, we make sure your process always operates, with maximum efficiency and minimal downtime.

MTA develops globally recognised process chillers, with over 100.000 units installed worldwide. We are committed to environmentally sustainable solutions featuring reduced GWP refrigerants and energy saving advanced technologies.

Customers worldwide rely on MTA's expertise to meet their specific needs. We are your trusted partner for industrial process cooling.

Who

The right partner for OEMs, end users and installers, whatever the application

What

Extensive product solutions, special executions and ancillary equipment

It works: Whenever, wherever, whatever.

How

Capital, rental and engineered solutions, global after-sales support

Where

Expert personnel in over 80 nations worldwide

The MTA product portfolio

From standard units to fully engineered solutions

▶ Air-cooled chillers

Flexible and easy-to-install cooling solutions for a wide range of applications

▶ Water-cooled chillers

Compact and typically installed indoors; allow elevated energy efficiencies

▶ Heat Pumps

Heating and cooling from a single unit; available in air and water-cooled configurations

▶ Free cooling chillers & modules

Reduce energy consumption by exploiting favourable ambient conditions

▶ Low water temperature (LWT) chillers

Reliable cooling down to -25 °C for food, pharmaceuticals and industrial processes

▶ Connectivity & Modularity

Remote monitoring, supervision and control, via web or dedicated MTA solutions

▶ Ancillary equipment

Complete your solution with tailored options and engineered solutions

Designed around your industrial processes



FOOD

processing, packaging, handling and storage of food products



BEVERAGES

wineries, breweries, soft drinks, bottling processes



MECHANICAL ENGINEERING

machine tools, filtration, washing processes, welding and metal working



CHEMICAL & PHARMA

chemicals, cosmetics, paint, pharmaceuticals, tobacco, extraction, laboratories



TECHNICAL AIR CONDITIONING

laboratories, hospitals, production areas, controlled environments, data centres



PLASTICS

moulding, extrusion, PET, packaging, thermoforming, rubber, fibres, recycling



MEDICAL

imaging (X-Ray, MRI, MRT, CT Scanners), laboratories, storage, herbal extraction



LASERS

cutting, welding, drilling, soldering, surface treatment, medical



HEAVY INDUSTRIES

foundries, mining, building materials, energy sector, oil & gas, transport



OTHER APPLICATIONS

paper & printing, electronics, biogas, 3D printing, safety & environment, water recycling, ice rinks

Designed for industrial performance

Every detail is studied for your peace of mind

▶ SUSTAINABLE SOLUTIONS

Reducing environmental impact is a key priority for MTA. Refrigerant R290 (propane) is available alongside low-GWP alternatives such as R454B and R513A, depending on application requirements. High-efficiency configurations, including EC brushless fans and heat recovery solutions, contribute to lower energy consumption. Free cooling systems can further reduce power usage by leveraging favourable ambient conditions.

▶ QUALITY DESIGNED FOR RIGOROUS INDUSTRIES

The robust design, with galvanized powder coated steel panels, features quality field-tested components, a meticulous attention to even the smallest detail and copper-aluminium condensers. MTA's in-tank, shell & tube and stainless steel plate evaporators, including non-ferrous configurations, are ideal for harsh industrial conditions.

▶ PRECISE CONTROL IN A WIDE OPERATING RANGE

Water outlet temperatures from -25 °C to +30 °C, with differentials from 4 to 10 °C, accurately meet each application need. Generous ambient limits range from -20 °C to +46 °C. A large tank and outlet water control ensure precise temperatures and quick reactions under variable loads. Close temperature control is available.

▶ PLUG & PLAY SOLUTIONS

The compact all-in-one packaged design features one or two pumps, a tank and all the accessories mounted on-board, with a high specification down to the smallest details. Easy to use controllers feature MTA softwares developed for industry, with RS485 connectivity, xWEB and xVision management, remote control and modularity solutions.

▶ RELIABLE IN EVERY CONDITION

MTA chillers meet industrial Ecodesign SEPR directives and are **Eurovent certified** covering performance and efficiency, a first for process chiller manufacturers. An industrial grade attention to every detail ensures years of trouble-free functioning. Maintenance and downtimes are minimised, helped by multiple compressors, circuit redundancy and condenser pre-filters.

▶ ENGINEERED AROUND YOUR NEEDS

The extensive product portfolio features premium quality scroll and reciprocating compressors, including energy saving inverter drive and partialisation algorithms. Multiple configurations and options, including single or double pumps, dual frequency, 60 Hz and UL certified versions satisfy individual needs. Personalised customer solutions are developed on request.

TAE: the benchmark process chiller

The right fit for every industrial requirement

TAE, probably the world's favourite process chiller, is in fact a family of air and water-cooled chillers, heat pumps and low water temperature chillers which perfectly meet the needs of the most diverse industrial applications within even the most arduous conditions. According to the model, TAE can operate in both open and closed circuits (up to 6 barg) and with a non-ferrous

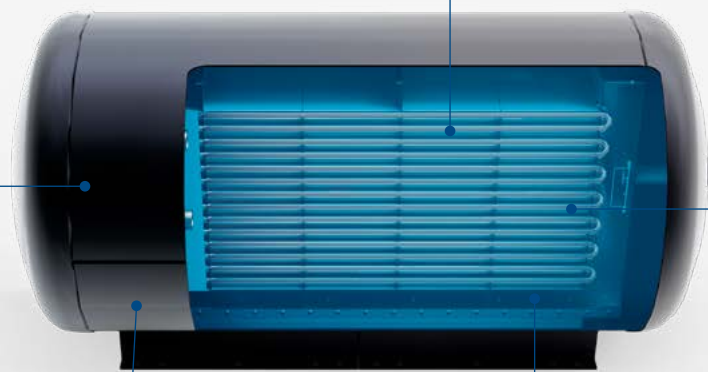
hydraulic circuit either as standard or on request. A combination of an internal hydraulic by-pass, water level and conductivity sensor and refill kits ensure the unit never stops, whatever the working conditions. TAE ensures your system keeps on working, even if the unexpected happens.

In-tank evaporator

The game changer

Large buffer tank up to 500 L, within compact unit dimensions

Extremely robust design, long lasting and dependable even in harsh conditions



Wide exchange passage: low pressure drops, allows high flow rates

Wide fin spacing accommodates dirty water and impurities, no damage due to freezing

Continuously chilled water storage: stable temperatures, quick reaction to demand peaks

Specific in-tank evaporator configuration differs according to TAE version.

The TAE family

TAEevo TECH Mini / TAE N MINI

- Air-cooled chillers (atmospheric only)
- Cooling capacity: 1,8 - 4,4 kW
- Compressors: rotary
- Refrigerant: R134a, R410A, R290.



TAE G Compact

- Air-cooled chillers (atmospheric only)
- Cooling capacity: 6 - 23 kW
- Compressors: scroll
- Refrigerant: R513A



TAE G

- Air-cooled chillers
- Cooling capacity: 7 - 244 kW
- Compressors: scroll
- Refrigerant: R513A, R454B



TAEevo TECH

- Air-cooled chillers
- Cooling capacity: 9 - 256 kW
- Compressors: scroll
- Refrigerant: R410A
- TAEevo LWT (R449A) for low water temperatures (down to -25 °C).



TWEevo TECH

- Water-cooled chillers
- Cooling capacity: 12 - 199 kW
- Compressors: scroll
- Refrigerant: R410A



HAEevo TECH

- Air-to-water heat pumps
- Cooling capacity: 13 - 88 kW
- Heating capacity: 16 - 82 kW
- Compressors: scroll
- Refrigerant: R410A



Note:
Cooling capacity with water in/out 20/15 °C, ambient 25 °C (air-cooled); condenser in/out 30/35 °C (water-cooled).
Condenser water inlet/outlet temperature 40/45 °C, external air temperature 7 °C.

MTA's industrial product portfolio

The right product for your needs

CYGNUS G & iCYGNUS G

- Air-cooled chillers
- Cooling capacity: 27 - 81 kW
- Compressors: scroll
(inverter-driven scroll for iCYGNUS G)
- Refrigerant: R454B
- Evaporator: brazed plates heat exchanger



GEMINI

- Air-cooled chillers
- Cooling capacity (*): 87 - 164 kW
- Compressors: scroll
- Refrigerant: R454B
- Evaporator: brazed plates heat exchanger



ARIES G

- Air-cooled chillers
- Cooling capacity (*): 160 - 858 kW
- Compressors: scroll
- Refrigerant: R454B
- Evaporator: shell & tube



ARIES N

- Air-cooled chillers
- Cooling capacity (*): 165 - 240 kW
- Compressors: scroll
- Refrigerant: R290
- Evaporator: brazed plates heat exchanger



iARIES N

- Air-cooled chillers
- Cooling capacity (*): 260 - 320 kW
- Compressors: reciprocating (inverter)
- Refrigerant: R290
- Evaporator: stainless steel plate



ARIES G FC

- Air-cooled chillers with integrated free-cooling
- Cooling capacity*: 160 - 340 kW
- Compressors: scroll
- Refrigerant: R454B
- Evaporator: shell & tube



NEPTUNE

- Water-cooled chillers, heat pumps, condenserless units
- Cooling capacity [1]: 52 - 695 kW
- Heating capacity [2]: 59 - 792 kW
- Compressors: scroll
- Refrigerant: R454B, R410A
- Evaporator: stainless steel plate



Note:

Cooling capacity with water in/out 20/15 °C, ambient 25 °C [air-cooled].

[*] Evaporator water inlet/outlet temperature 12/7 °C, external air temperature 35 °C.

[1] Evaporator water temperature IN/OUT 12/7 °C and condenser water temperature IN/OUT 30/35 °C.

[2] Evaporator water temperature IN/OUT 10/7 °C, condenser water temperature IN/OUT 40/45 °C.

Driving the electrification of heating, MTA heat pumps offer an efficient and sustainable alternative for industrial applications.

iCYGNUS G HP

- Air-cooled heat pumps
- Cooling capacity: 18 – 49 kW
- Heating capacity: 23 – 59 kW
- Compressors: scroll
- Refrigerant: R454B
- Evaporator: brazed plates heat exchanger



iCYGNUS N HP

- Air-cooled inverter propane heat pumps
- Cooling capacity: 7 - 52 kW
- Heating capacity [*]: 8 - 66 kW
- Compressors: scroll Inverter
- Refrigerant: R290
- Evaporator: brazed plates heat exchanger



GEMINI HP

- Air-cooled modular heat pumps
- Cooling capacity: 83 - 147 kW
- Heating capacity: 84 - 149 kW
- Compressors: scroll
- Refrigerant: R454B
- Evaporator: brazed plates heat exchanger



GEMINI N HP

- Air-cooled inverter propane heat pumps
- Cooling capacity: 49 - 98 kW
- Heating capacity: 63 - 125 kW
- Compressors: scroll Inverter
- Refrigerant: R290
- Evaporator: brazed plates heat exchanger



FC4TAE | FC4ALL

- Free-cooling modules to be integrated with air-cooled chillers
- Free-cooling capacity (1): 18 - 407 kW
- Compatible with TAE (Mini excluded) and ARIES



Beyond products, MTA combines engineering expertise and advanced technologies to deliver solutions designed around your specific process requirements.

From standard units to fully engineered systems, we support industrial applications with reliable, efficient and forward-looking solutions.

Note:
Cooling: outdoor air temperature 35°C and chilled water temperature 12°C/7°C. [EN 14511:2022].
Heating: Outdoor air temperature 7°C - hot water temperature in/out 40/45°C. [EN 14511:2022].
[*] Outdoor air temperature 7°C - hot water temperature in/out 30/35°C. [EN 14511:2022].
(1) Water temperature in/out 15/10 °C, ethylene glycol 30%, ambient temperature 0 °C.

MTA Service & Support

Engineered to keep your processes running.



www.mta-it.com



In industrial applications, temperature control is critical. Even the smallest interruption can stop your process while system enhancements help reduce energy use, risks and costs.

That's why MTA goes beyond equipment - delivering a complete range of services designed to ensure reliability, efficiency, and peace of mind.



Flexible service offerings tailored to your needs

MTA offers different service levels to match your operational requirements — from essential support to complete protection.

- Installation & Start-up
- Preventive maintenance plans
- All inclusive fixed cost service agreements
- Spare Parts and technical support
- Emergency support with rapid response
- Remote monitoring & diagnostics
- Rental Solutions
- Extended Warranty

SERVICE YOU CAN RELY ON

Contact our experts to define the right service solution for your application.
info@mta-it.com

MTA is represented in over 80 countries worldwide. For information concerning your nearest MTA representative please contact M.T.A. S.p.A.

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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
- Air/Water with cooling capacity up to 600 kW
- Water/Water up to 1500 kW

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