

TAE G COMPACT



Air-cooled process chillers with atmospheric in-tank evaporator.
Nominal cooling capacity 6 – 23 kW



*Cooling your industry,
optimising your process.*



TAE G COMPACT

TAE RELIABILITY, IN AN EVEN MORE COMPACT DESIGN

TAE G Compact process chillers, with compact dimensions, a non-ferrous hydraulic circuit and a refrigerant with reduced environmental impact, are the perfect

synergy between the reliability and versatility of MTA's process chillers and our commitment to accelerating the adoption of sustainable technology for thermal systems.



IN-TANK EVAPORATOR

The game changer

TAE G Compact's in-tank evaporator is the ideal solution for numerous industrial applications, combining a robust and easy to apply design with precise control and guaranteed continuous operation in even the most diverse and challenging operating conditions.

- ▶ Atmospheric pressure operation and non-ferrous configuration;
- ▶ Very large exchange surface, low pressure drops and high flow rates;
- ▶ Wide fin spacing, no risk of blockage with dirty water and impurities;
- ▶ A continuously chilled water storage with large buffer tank (up to 160l);
- ▶ Precise temperature control even under variable loads thanks to probe installed downstream of the tank;
- ▶ Less compressor starts for higher energy savings and improved longevity;
- ▶ Integrated internal bypass, to preserve the pump in case of incorrect interception of the valves. This ensures the minimum water flow to activate the alarm and stop the unit, thus avoiding freezing inside the tank;
- ▶ Easy manual water filling.

Compact dimensions

The compact layout and reduced footprint of TAE G Compact allow indoor installation even where space is limited, such as near workbenches or close to machine tools.

Extended operating limits

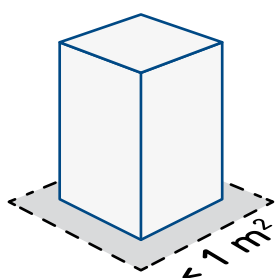
Water outlet temperatures from -5°C to $+30^{\circ}\text{C}$ cater for the needs of numerous industrial applications. Ambient temperatures range from -20°C to $+45^{\circ}\text{C}$.

Low GWP refrigerant

TAE G Compact is the answer to the European F-Gas regulation on fluorinated gases. R513A refrigerant combines a reduced GWP with an A1 safety class, allowing simple indoor installation.

Guaranteed operation

Multiple safety devices, including a water differential pressure switch (mod. C40 ÷ C70) and internal hydraulic by-pass, increase reliability and ensure a long operating life. Each unit is extensively tested before leaving the factory.



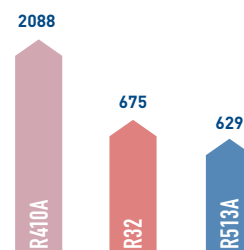
WATER OUTLET TEMPERATURE

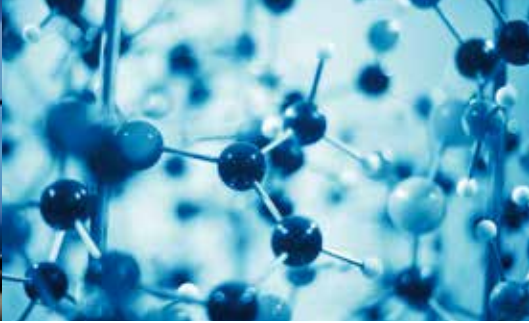
$-5/+30^{\circ}\text{C}$

AMBIENT TEMPERATURE

$-20/+45^{\circ}\text{C}$

GWP (AR4)





Fan

- Axial suction fan with AC motor.

Electrical panel

- IP54 protection rating (IPX4 for mod. C15 ÷ C30);
- Parametric controller;
- Phase monitor (for mod. C40 ÷ C70).

Evaporator

- Finned coil evaporator with copper tubes and aluminum fins, integrated inside a plastic atmospheric pressure storage tank.

Condensing coil

- Aluminum microchannel complete with protective metal mesh filter.

Compressor

- Hermetic R513A scroll.



Centrifugal pump

- P3 (3 barg);
- P5 (5 barg) - option;
- Without pump - option.

Energy efficiency

The efficiency of TAE G Compact liquid chillers meets the limits imposed by ErP SEPR HT reg. 2016/2281 directives and is guaranteed by Eurovent certification.

Plug & Play system

The integrated hydraulic module and wide range of options and kits allows for perfect adaptation to any type of application. TAE G Compact arrives ready for installation and operation.

One chiller, many applications

TAE G Compact is the ideal solution for multiple applications including mechanical engineering, machine tools, printing, and many more beyond.

Easy to use

The reduced footprint, the removable panels for easy access to the electrical panel and components and the hydraulic connections on the panel allow for easy installation and maintenance operations.

SEPR HT COMPLIANT



Options

- Dual frequency version (400/3/50 – 460/3/60);
- Low ambient air temperature (down to -20 °C);
- High leaving water temperature (12 °C ÷ 30 °C);
- Temperature Close Control version: outlet water temperature accuracy 0,5 C;
- Protective painting for condensing coil;
- P5 pump or without pump;
- Multipole industrial connectors;
- Connectivity kit;
- Tank level sensor.

Kits

- Automatic hydraulic by-pass;
- Water filter;
- Check valve and solenoid valve;
- Dynamic set-point;
- Wheels kit;
- Remote display;
- Supervision and monitoring kit (RS485 adapter and xWEB300D PRO).

TAE G Compact		C15	C20	C30	C40	C50	C55	C70
Nominal cooling capacity (1) ▼	kW	4,20	5,30	7,40	9,30	12,00	13,80	15,90
EER (1) ▼	-	2,94	2,78	2,90	2,87	2,93	2,92	2,90
SEPR HT (2) ▼	-	5,10	5,12	5,03	5,01	5,02	5,01	5,02
Nominal cooling capacity (3)	kW	6,08	7,70	10,38	13,13	16,89	19,75	22,82
EER (3)	-	4,72	4,54	4,50	4,51	4,63	4,46	4,44
Power supply	V/ph/Hz	400 ± 10% / 3-PE / 50						
Circuits / Compressors	n°	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Refrigerant	-	R513A						
Sound Power (4) ▼	dB(A)	80	80	81	81	81	81	82
Lenght	mm	797	797	797	911	910	1080	1080
Width	mm	738	738	738	836	836	836	836
Height	mm	1416	1416	1629	1629	1838	1838	1870
Operating weight (5)	kg	255	258	300	362	396	453	481
Tank volume	l	80	80	105	115	130	160	160
Evaporator water connections	Rp-DN	3/4 "	3/4 "	1"	1"	1 1/4"	1 1/4"	1 1/2"

Data declared according to UNI EN 14511, and they refer to units without options which require an electrical feeding source and in nominal working conditions

- (1) Evaporator water inlet/outlet temperature 12/7 °C, external air temperature 35 °C;
- (2) Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to ecodesign requirements for cooling products and high temperature process chillers;
- (3) Evaporator water inlet/outlet temperature 20/15 °C, external air temperature 25 °C;
- (4) Sound power is determined on the basis of measurements taken in accordance with the standard ISO 3744;
- (5) Operating weight refers to the unit without options but is considering a P3 pump.

▼ Eurovent certified data.



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

www.mta-it.com

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