

TAE G

Air-cooled process chillers with in-tank evaporator.
Nominal cooling capacity 7 – 244 kW



R513A

R454B



*Cooling your industry,
optimising your process.*



TAE G

THE BENCHMARK PROCESS CHILLER

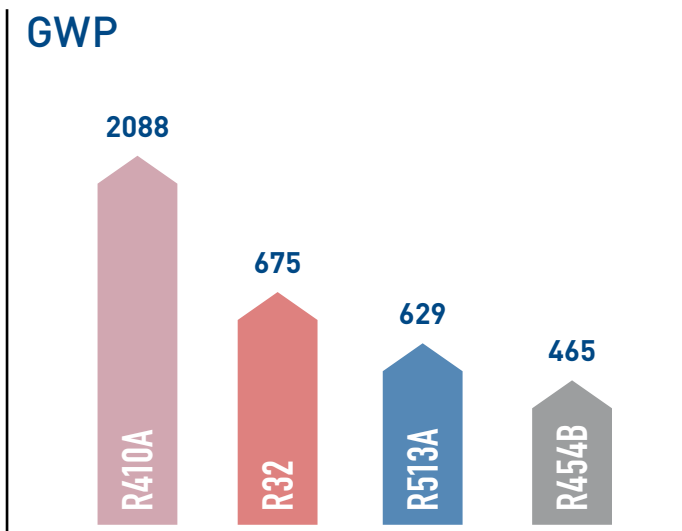
TAE G air-cooled process chillers are designed specifically for use in the most demanding industrial applications.

TAE G is the result of MTA's commitment towards the adoption of sustainable technology for thermal systems combining the reliability and durability of our process chillers with the application of low GWP refrigerants R513A and R454B, in alternative to R410A.

The chiller's packaged configuration features an internal storage tank and pump as standard, offering a plug & play solution with a worldwide acclaim. An extensive range of options, coupled with wide operating limits, allow TAE G to perfectly fit a variety of process cooling applications.

TAE G: capable, flexible and dependable.
Everything your industry needs.

THE SUSTAINABLE COOLING SOLUTION FOR YOUR INDUSTRY, WITHOUT COMPROMISING ENERGY EFFICIENCY



R513A from model 020 to 071

-70%

GWP versus R410A

- Composition 44% R134a + 56% R1234yf;
- Low GWP 629 (AR4 + AR6);
- A1 low-toxicity, non-flammable (ISO 817);
- Non-Ozone depleting.

R454B from model 081 to 1002

-78%

GWP versus R410A

- Composition 69% R32 + 31% R1234yf;
- Low GWP 465 (AR4 + AR6);
- A2L low-toxicity, mildly flammable (ISO 817);
- Non-Ozone depleting.

Unparalleled operating range

TAE G widens the ordinary chiller limits to match the requirements of multiple applications. The limits can be further extended with the optional EC Brushless fans.

Certified Efficiency

TAE G efficiency exceeds the latest Ecodesign standard for process cooling applications and are guaranteed by Eurovent certification.

Plug and Play

TAE G features an integrated hydronic group. An extensive range of accessories and kits allow each unit to perfectly fit the application. TAE G is easy-to-use and ready-to-install.

Matchless dependability

TAE G is designed to work whatever the conditions. The standard safety equipment includes a phase monitor, pressure switches, antifreeze sensors, level sensors, compressors crankcase heaters and an internal hydraulic circuit by-pass.

OUTLET WATER TEMPERATURE

-10/+30 °C

AMBIENT TEMPERATURE UP TO

-20/+46 °C

SEPR^{HT} 5,4

(REG. 2016/2281)

SEPR^{MT} 3,6

(REG. 2015/1095)





Condensing coil

Copper tubes and corrugated aluminum fins with removable metal filters (mod. 031÷1002) and protection grid (mod. 020).

High efficiency axial fans

Options:

EC Brushless fans on mod. 031÷1002

- Continuous electronic regulation of the air flow
- Very low ambient temperature operation (-20 °C)
- High efficiency at partial loads
- High head pressure

Electric panel

- IP54 protection grade (IP44 on mod. 020)
- Parametric microprocessor IC208CX, mod. 381÷1002 with semi-graphic LCD display
- Automatic thermal-magnetic cut-outs on main loads
- Phase monitor

Structure and casing

Sturdy galvanized carbon steel structure with epoxy polyester powder coating.

Centrifugal pumps

P3 Pump (3 barg);

Options:

- P3 Pump for open hydraulic circuits (3 barg)
- P5 Pump (5 barg)
- Double P3+P3 or P5+P5 pumps
- Without pump

Unique evaporator-in-tank

High-efficiency finned coil evaporator with copper tubes and aluminum fins, installed inside the water storage tank (designed up to 6 barg) complete with filling/drain valve, pressure gauge.

Efficient Hermetic Scroll compressors

With crankcase heater

Electronic expansion valve

Standard features

- Internal hydraulic by-pass between IN/OUT connections;
- Electronic level sensor with water conductivity function;
- High pressure switch, high pressure transducer (mod. 031÷1002), low pressure switch and low pressure transducer (mod. 031÷1002);
- Refrigerant pressure gauges (mod. 031÷1002).

Main options

- Anti-freeze heaters (on tank and pumps);
- Non Ferrous hydraulic circuit;
- Pre-painted condenser coils;
- Dual frequency versione 400V/3Ph/50Hz – 460V/3PH/60Hz;
- Temperature Close Control version: outlet water temperature accuracy $\pm 0,5$ °C;
- UL 508A version 460V/3Ph/60Hz.

Main kits

- Flow rate regulation kit;
- Manual filling tank kit: suitable for atmospheric pressure hydraulic circuits;
- Automatic filling kit: suitable for pressurized hydraulic circuits (up to 6 barg);
- Remote control kit VICX620 (LED display) and VGI890 (LCD display) (max 100 m);
- Supervisor kits: RS485 ModBus, xWEB300D PRO and xVISION;
- Modularity kit: up to 5 units in MASTER/SLAVE system.

TAE G		020	031	051	071	081	101	121	161	201	251	301
Nominal cooling capacity (1) ▼	kW	5,15	6,95	9,87	15,44	21,66	26,00	33,39	35,42	42,88	47,69	56,32
EER (1) ▼	-	2,36	2,59	2,58	2,83	2,61	2,70	2,62	2,58	2,47	2,43	2,58
SEPR HT (2) ▼	-	5,01	5,09	5,04	5,03	5,09	5,01	5,05	5,00	5,15	5,03	5,07
SEPR MT (3)	-	2,70	2,95	3,14	3,10	3,32	2,93	3,33	3,58	2,92	2,99	3,04
Nominal cooling capacity (4)	kW	7,41	9,84	13,95	21,75	29,27	34,76	46,07	47,81	57,79	63,96	77,82
EER (4)	-	3,85	4,11	4,04	4,36	4,13	4,24	4,10	3,93	3,83	3,71	4,07
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	1 / 1	1 / 2	1 / 2	1 / 2
Refrigerant	-	R513A					R454B					
Sound Power (5) ▼	dB(A)	80	81	81	82	82	82	82	83	84	84	86
Length	mm	1276	1318	1318	1865	1865	1862	1862	1862	2247	2247	2247
Width	mm	561	661	661	761	808	808	808	808	866	866	904
Height	mm	951	1464	1464	1511	1511	1556	1556	1556	2172	2172	2172
Operating weight (6)	kg	281	397	413	619	577	721	738	746	1019	1019	1074
Tank volume	l	60	115	115	140	140	255	255	255	350	350	350
Evaporator water connections	Rp-DN	3/4"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"

TAE G		351	381	401	402	502	602	702	802	902	1002	
Nominal cooling capacity (1) ▼	kW	63,65	73,91	83,27	86,10	98,01	110,95	129,10	146,22	168,42	185,88	
EER (1) ▼	-	2,40	2,71	2,56	2,44	2,54	2,54	2,52	2,69	2,65	2,49	
SEPR HT (2) ▼	-	5,16	5,00	5,15	5,06	5,24	5,17	5,14	5,36	5,36	5,12	
SEPR MT (3)	-	3,21	3,03	3,08	3,10	3,22	3,25	3,33	3,49	3,60	3,49	
Nominal cooling capacity (4)	kW	87,05	101,02	113,11	117,41	133,41	150,40	170,45	191,19	220,62	243,63	
EER (4)	-	3,66	4,23	3,93	3,82	3,96	3,89	3,76	4,01	3,95	3,67	
Power supply	V/ph/Hz	400 ± 10% / 3-PE / 50										
Circuits / Compressors	n°	1 / 2	1 / 2	1 / 2	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	
Refrigerant	-	R454B										
Sound Power (5) ▼	dB(A)	86	88	90	90	90	90	90	91	92	93	
Length	mm	2247	2791	2791	3294	3294	3294	3544	3544	4654	4654	
Width	mm	904	1200	1200	1296	1296	1296	1295	1295	1295	1295	
Height	mm	2172	2257	2257	2299	2299	2299	2152	2152	2152	2152	
Operating weight (6)	kg	1086	1365	1426	1719	1748	1761	2163	2215	2897	2974	
Tank volume	l	350	410	410	500	500	500	678	678	950	950	
Evaporator water connections	Rp-DN	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	100	100	

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) Data declared in compliance with the European Regulation (EU) 2015/1095 with regard to ecodesign requirements for cooling products and medium temperature process chillers;
(4) Evaporator water inlet/outlet temperature 20/15 °C, external air temperature 25 °C;
(5) Sound power is determined on the basis of measurements taken in accordance with the standard ISO 3744;
(6) 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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