



PROCESS COOLING
SOLUTIONS

NEW
RANGE

TAE^{evo} TECH MINI

Air-cooled industrial chillers

Cooling capacity 1,4 - 4,8 kW



New generation of compact liquid chillers for industrial processes.

Most of the industrial processes today has a growing need for competitive technical solutions suitable to ensure greater productivity, meeting the high quality requirements of the final product and environment friendly. The reliability, the compactness and flexibility of the cooling systems significantly reduce the operating costs and the environmental impact of the entire plant.

The new generation of liquid chillers TAEevo Tech MINI has been specifically designed for process cooling water and antifreeze mixtures, ensuring superior reliability, minimum dimensions and high energy efficiency.

The new evaporator with finned coil immersed in the tank is designed to ensure the maximum level of efficiency and is able to reduce ambient heat gain, ensuring an excellent stability of the temperature of the process fluid too. All the units are manufactured according to ISO 9001, 14001 and Eurovent accreditation standards, ensuring the highest levels of performance and quality.



Cooling, conditioning, purifying.

Main benefits

- The unique evaporator-in-tank configuration has been specifically designed for process cooling applications. It allows high water flow rates with low pressure drops and ensures a reliable operation even in demanding applications;
- Hydraulic circuit Non Ferrous: it allows to treat even fluids aggressive to carbon steel, maintaining maximum quality and cleanliness of the process fluid;
- Easy installation thanks to their compact dimensions. The robust structure with eyebolts allows lifting the unit by means of straps with hooks;
- Easy maintenance: the rational layout of the hydraulic components, the simplicity of the refrigerant circuit and the numbering of electric cables simplify the operations of checking and maintenance, which can also be performed with running unit;
- The disassembly of the condenser air filter for the periodic cleaning operations is facilitated thanks to the fastening system interlocking;
- Thanks to the dual frequency design, the M02 - M03 models are ready for 50 Hz and 60 Hz applications;
- Extended operating limits: temperature range of the fluid from 0 °C up to + 30 °C. Max ambient temperature up to + 45 °C; ambient temperature min. of 0 °C.

Special executions

- Close temperature control version: this version offers extremely precise regulation of the outlet water temperature (hysteresis $\pm 0,5$ °C);
- P5 Pump: peripheral non ferrous pump (5barg head pressure);
- Tank level switch;
- Multipole industrial connector;
- Dynamic set point: the controller adjusts the working setpoint following the temperature;
- Stainless steel frame;
- Kit: water filter; automatic hydraulic by-pass kit; hydraulic disconnect kit; wheels kit.

Hydraulic circuit Non Ferrous maintains maximum cleanliness of the process fluid.



Innovative finned coil evaporator with high efficiency.



TAEvo Tech MINI mod. 02-03 dual frequency 50/60 Hz.



XR60CX microprocessor controller features an integrated display with icons.



TAEvo Tech MINI		02	03	05	08	10
Cooling capacity 50/60 Hz (1)	kW	1,4 / 1,5	1,8 / 2,0	2,8	3,5	4,8
Total absorbed power 50/60 Hz (1)	kW	0,4 / 0,5	0,6 / 0,7	0,6	0,8	1,1
EER 50/60 Hz (1)	-	3,2 / 3,1	3,1 / 3,0	4,7	4,3	4,4
Cooling capacity 50/60 Hz (2)	kW	1,0 / 1,1	1,2 / 1,4	2,1	2,5	3,4
Total absorbed power 50/60 Hz (2)	kW	0,4 / 0,5	0,6 / 0,7	0,7	0,9	1,2
Nominal power P3 pump	kW	0,18	0,18	0,37	0,37	0,37
EER 50/60 Hz (2)	-	2,3 / 2,3	2,2 / 2,1	3,0	2,8	2,9
Power supply	V/Ph/Hz	230 \pm 10% / 1 - PE / 50 - 60			230 \pm 10% / 1 - PE / 50	
Noise level 50/60 Hz (*)	db(A)	46,0 / 47,0	46,0 / 47,0	47,0	47,0	47,0
Width	mm	486	486	486	486	486
Depth	mm	660	660	660	660	660
Height	mm	623	623	623	876	876
Working weight (P3 pump)	Kg	75	77	78	96	100
Tank volume	l	15	15	15	22	22
Evaporator water connections	Rp	1/2"	1/2"	1/2"	1/2"	1/2"

All data refers to standard units at the following nominal conditions:

(1) Evaporator water inlet/outlet temperature 20/15 °C, external air temperature 25 °C, total absorbed power of the compressor and fan.

(2) Evaporator water inlet/outlet temperature 12/7 °C, external air temperature 35 °C, total absorbed power of the compressor and fan.

(*) Sound pressure level in free field at 10 m from unit condenser side and 1,6 m from ground. Axial fans version.

Data declared according to UNI EN 14511:2013.



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
Eurovent Certification applied to the units:
- Air/Water up to 600 kW
- Water/Water up to 1500 kW



EAC Declaration

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