



PROCESS COOLING
SOLUTIONS

TAE^{ev}in TECH

Air-cooled industrial chillers with scroll compressors - R410A.

Cooling capacity 7 - 230 kW



The evolution of...perfection.

Technological innovation, absolute reliability and customer satisfaction have been MTA's hallmarks in over 30 years in the industrial cooling market. The TAEevo Tech air cooled chillers, specifically designed for use in industrial applications, are compact units equipped, as standard, with an internal storage tank and pump, offering a tried and tested solution that has received worldwide acclaim.

The innovative evaporator-intank configuration ensures reduced ambient heat gain and a steady temperature of the process fluids.

The use of components sourced from premium manufacturers and extensive factory testing of all units make for highest reliability levels, minimising the risks of unplanned stoppages and increasing productivity levels. An extensive range of accessories, coupled with operating limits among the most generous available on the market, allow TAEevo Tech to be personalised to a variety of industrial applications.



Cooling, conditioning, purifying.

Benefits

- The unique evaporator-in-tank configuration has been specifically designed for process cooling applications. It allows high flow rates with low pressure drops and it is furthermore compatible with the presence of contaminated process fluids;
- Scroll compressors ensure high efficiency, excellent performance and elevated energy savings;
- Extended operating limits: Tw in max = +35 °C; Tw out min = -10 °C; Tamb max = +46 °C; Tamb min = -5 °C;
- R410A non ozone depleting refrigerant increase the performance thanks its outstanding heat conductivity;
- The oversized hydraulic tank is standard and is able to compensate for the imbalances caused by sudden changes in load demand from the user;
- IP54 / IP44 electrical protection rate makes TAEvo Tech suitable for outdoor installation;
- Extensive range of accessories and kits, allow each unit to match the specific customer requirements;
- Cooling circuit suitable both for atmospheric and pressurized hydraulic circuits (up to 6 barg);
- Comprehensive safety equipment, including phase monitor pressure switches, antifreeze sensors, level sensors, crankcase heaters and an internal hydraulic bypass circuit.

Versions

- Non Ferrous Version (015-351);
- Version for low environmental temperature -20 °C (mod. 031 - 802);
- Dual frequency version: power supply 400V/3/50 Hz - 460V/3/60 Hz (mod. 015-161);
- UL version (015-802): power supply 460/3/60Hz.

Standard features

- Refrigerant R410A;
- Hermetic Scroll compressors;
- High-efficiency finned coil evaporator with copper tubes and aluminum fins, installed inside the water storage tank;
- Axial fans with with galvanized steel (mod. 015-020) or die-cast aluminum/ plastic crescent-shaped blades (mod. 031-802);
- Oversized air-cooled condensers (copper tubes /aluminium fins) fitted on one side of the chiller. Air filter standard from mod. 031;
- Storage tank (design pressure 6 barg) complete with pump, filling/drain valve, pressure gauge;
- Internal hydraulic bypass between the inlet and outlet connections;
- Electronic level sensor with water conductivity function;
- High and low refrigerant pressure switches;
- Refrigerant pressure gauges (mod. 031-802);
- Parametric microprocessor control IC208CX;
- Protection rating: IP54 (mod. 031-802); IP44 (mod.015-020);
- Phase monitor;
- Compressor crankcase heater.

Main options and kit

- P3, P5 pumps, double pumps in stand-by P3+P3 or P5+P5 (mod. 201 - 802); SP (without pump);
- Version with painted fins against corrosion;
- Axial fans electronic fan speed control by phase cut; centrifugal fans (031-161); EC brushless axial fans with high head pressure (201-802);
- Anti-freezing heaters (on tank and pumps);
- Soft starter option: factory fitted (381-802);
- Manual filling tank kit: suitable for hydraulic circuits at atmospheric pressure;
- Automatic filling kit: suitable for pressurized hydraulic circuits (up to 6 barg);
- Remote ON/OFF kit and remote control kit (max 150 m);
- Remote control kit VICX620 display LED, VGI890 display LCD (max 150 m);
- Supervisor kits: RS485 ModBus, xWEB300D.

IC208CX sophisticated microprocessor connectable to supervisor systems through RS485 or xWEB300D kits.

TAEvo Tech can be integrated with supervision system using the kit RS485 and the kit xWEB300D operating via Internet.

Standard Pump P3(3barg); optional P5 pump (5 barg). Also available double pumps P3+P3, P5+P5 in stand-by.

The integral yet removable high capacity water tank ensures very precise water temperature control.



TAEvo Tech		015	020	031	051	081	101	121	161	201	251	301	351	381	401	402	502	602	702	802	
50 Hz	Cooling capacity (1)	kW	7,00	8,30	13,3	19,4	30,1	39,2	48,3	55,5	64,1	75,7	84,1	96,2	121	136	123	146	166	200	230
	Total absorbed power (1)	kW	1,95	1,77	3,08	4,29	7,31	8,40	10,6	13,6	14,7	18,1	19,1	23,7	26,4	29,0	29,4	33,6	38,8	44,7	52,9
	Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50																		
Dual-Freq.	Cooling capacity (60 Hz)	kW	8,48	9,98	15,9	22,7	35,4	45,7	55,9	64,2	-	-	-	-	-	-	-	-	-	-	-
	Total absorbed power (60 Hz)	kW	2,38	2,17	3,77	5,41	8,98	10,6	13,3	17,0	-	-	-	-	-	-	-	-	-	-	-
	Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50 (460 ± 10% / 3 - PE / 60)																		
Noise level (50 Hz) (*)	db(A)	52,4	52,4	53,1	53,1	53,6	54,1	54,1	55,0	56,3	56,3	58,0	58,0	60,3	61,7	61,5	61,5	61,5	62,2	62,6	
Width	mm	560	560	660	660	761	761	761	761	866	866	866	866	1150	1150	1255	1255	1255	1250	1250	
Depth	mm	1284	1284	1315	1315	1862	1862	1862	1862	2250	2250	2250	2250	2790	2790	3298	3298	3298	3535	3535	
Height	mm	795	795	1373	1373	1437	1437	1437	1437	2054	2054	2054	2054	2090	2090	2119	2119	2119	2151	2151	
Working weight (P3 pump)	Kg	205	210	324	347	483	642	656	672	948	1031	1064	1075	1408	1493	1701	1750	1786	2267	2287	
Tank volume	l	60	60	115	115	140	255	255	255	350	350	350	350	410	410	500	500	500	678	678	
Evaporator water connections	Rp	3/4"	3/4"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	

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.

(*) 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 14511:2011.



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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