



PROCESS COOLING  
SOLUTIONS



# TAE<sup>evn</sup> TECH

Air-cooled industrial chillers - High efficiency - with scroll compressors - R410A.  
Cooling capacity 13 - 222 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 TAEevn Tech HE 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. TAEevn Tech HE guarantees EER energy efficiency levels at the top of the category class A. 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, minimizing 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 TAEevn Tech HE to be customized to a variety of industrial applications.



Cooling, conditioning, purifying.

## Standard features

- Refrigerant R410A;
- Hermetic Scroll compressors;
- High efficiency finned coil evaporator aluminium/copper installed inside the storage tank;
- Axial fans operated by an EC synchronous electric motor with permanent magnets and Integrated inverter speed control;
- Oversized air-cooled condensers (copper tubes /aluminium fins) fitted on one side of the chiller. Air filter standard;
- Storage tank (design pressure 6barg) complete with P3 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;
- Parametric microprocessor control IC208CX;
- Protection rating: IP54;
- Phase monitor against phase loss and phase reversal;
- Compressor crankcase heater.

## Main options and kit

- Pump options: P3, P5, double P3+P3 or P5+P5 (from 201-802), SP (without pump);
- Condenser option: version with painted fins against corrosion;
- 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);
- Glycol filling kit: suitable for pressurized hydraulic circuits;
- Remote ON/OFF kit and remote control kit (max 150 m);
- Remote control kit VICX620 display LED, VG1890 display LCD (max 150 m);
- Supervisor kits: RS485 ModBus, xWEB300D.

IC208CX sophisticated microprocessor connectable to supervisor systems through RS485.

Energy efficiency class A.

Innovative EC axial fans with permanent magnets and Integrated inverter speed control.

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



TAEvo Tech HE		031	051	081	101	121	201	251	301	381	402	502	702	802
Cooling capacity (1)	kW	13,0	17,4	31,4	41,9	48,7	61,5	75,2	82,4	113,1	118,7	146,6	188,6	221,9
Total absorbed power (1)	kW	2,7	3,6	6,8	8,8	10,2	13,0	15,8	17,1	23,3	25,2	30,7	37,4	46,6
EER (1)	-	4,79	4,80	4,64	4,75	4,77	4,74	4,76	4,81	4,85	4,71	4,78	5,05	4,77
Cooling capacity (2)	kW	9,9	13,3	23,2	31,2	36,0	45,8	56,0	61,0	85,7	88,2	108,7	142,4	168,6
Total absorbed power (2)	kW	3,2	4,3	7,4	10,0	11,5	14,5	17,9	19,5	26,2	28,3	35,0	42,4	52,1
EER (2)	-	3,11	3,12	3,12	3,11	3,12	3,16	3,13	3,13	3,27	3,12	3,11	3,36	3,24
Energy efficiency class	-	A	A	A	A	A	A	A	A	A	A	A	A	A
Power supply	V/Ph/Hz	400 ± 10% / 3 - PE / 50												
Noise level (*)	db(A)	55,6	55,6	56,4	56,5	56,5	58,1	59,4	59,4	60,3	62,5	62,5	62,2	62,6
Width	mm	660	660	760	760	760	865	865	865	1150	1255	1255	1250	1250
Depth	mm	1310	1310	1865	1865	1865	2255	2255	2255	2790	3295	3295	3535	3535
Height	mm	1415	1415	1460	1460	1460	2078	2078	2078	2090	2105	2105	2151	2151
Working weight (P3 pump)	Kg	333	346	507	659	659	947	1052	1069	1441	1777	1831	2318	2344
Tank volume	l	115	115	140	255	255	350	350	350	410	500	500	678	678
Evaporator water connections	Rp	1"	1"	1 1/2"	1 1/2"	1 1/2"	2"	2"	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.

(2) Evaporator water inlet/outlet temperature 12/7 °C, external air temperature 35 °C.

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

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](http://www.eurovent-certification.com)



EAC Declaration

## M.T.A. S.p.A.

Viale Spagna, 8 - ZI  
35020 Tribano (PD) - Italy  
Tel. +39 049 9588611  
Fax +39 049 9588612  
[info@mta-it.com](mailto:info@mta-it.com)  
[www.mta-it.com](http://www.mta-it.com)



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