

**NEW**  
R A N G E



PROCESS COOLING  
SOLUTIONS

# TAE<sub>Ev</sub>in TECH MINI

Portable air-cooled industrial chillers  
Cooling capacity 0.3 - 1.2 Tons

HEAVY DUTY FINNED-COIL EVAPORATOR

EXTENDED OPERATING RANGE 32 °F TO 86 °F

ADVANCED ELECTRONIC CONTROLS

INDUSTRIAL GRADE GALVANIZED STEEL FRAME

NON - FERROUS HYDRAULIC CIRCUIT

NON OZONE DEPLETING REFRIGERANTS



## New generation of portable 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.

TAE<sub>Ev</sub>in Tech MINI is a small chiller with big-chiller features. The completely packaged design, with its finned-coil evaporator located in the coolant storage tank and advanced electronic controls, combine high efficiency and reliability with compact dimensions. Perfect for cooling smaller industrial processes such as Plastic injection molding, Blow molding, Extrusion, Spot welders, Laboratory, Spindles, Water Jet Machines, Induction Heaters, Industrial Processes, Medical Equipment, Food Safety.



Cooling, conditioning, purifying.

## Main benefits

- The innovative finned-coil evaporator maximizes heat transfer surface while reducing coolant pressure drop and the effects of fouling;
- Hydraulic circuit Non Ferrous: it is compatible with a wide range of process coolants, maintaining maximum quality and cleanliness of the process fluid;
- Installation Flexibility: true to its name, compact dimensions allow the MINI to be installed in a variety of locations – even below a workbench. And the robust cabinet structure, with eyebolts, allows lifting from either the top or the bottom;
- Easy maintenance & service: the MINI's arrangement of components was designed with maintenance and service in mind. The cleanable condenser filter is accessed from the outside of the chiller without tools. Condenser air flow is arranged so that troubleshooting of the refrigerant circuit can be performed while the chiller is running. And a simple red/green status light (models M08 & M10) keeps the operator up to date, while alarm codes from the controller display provide more detailed information;
- 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 32 °F up to + 86 °F. Max ambient temperature up to + 113 °F; ambient temperature min. of 32 °F.

## Standard features

- Environment friendly refrigerant fluids (ODP=0) R134a (mod. M02-03) R410A (mod. M05-10);
- Hermetic piston compressors (mod. M02-M03) or rotary (mod. M05-M10);
- High efficiency finned coil evaporator Installed inside the storage tank and featuring copper tubes and aluminum fins;
- Water buffer tank in polyethylene equipped with a drain valve, water filling and overflow connections and a visual level indicator;
- Axial fans equipped with sickle-shaped galvanized steel blades;
- Air-cooled condenser with copper tubes and aluminum fins protected by metal air filters;
- Atmospheric pressure hydraulic circuit built with non-ferrous materials equipped with a pressure gauge;
- Calibrated hydraulic bypass;
- High pressure switch (mod. M05-M10);
- Digital microprocessor XR60CX;
- Green/red light on the frontal panel to signal the existence/absence of alarms (mod. M08-10);
- Bearing casters;
- Lamination device: calibrated orifice.

## Options

- Close temperature control version: this version offers extremely precise regulation of the outlet water temperature (hysteresis  $\pm 0.9$  °F);
- Brass positive displacement pumps with high head pressure - 72 psi;
- Tank level switch;
- Multipole industrial connector;
- Dynamic set point: the controller adjusts the working setpoint following the temperature;
- Stainless steel frame with IP54 rating (suitable for occasional wash-down operations);
- Kit: water filter; automatic hydraulic by-pass kit; hydraulic disconnect 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 (1)	Tons (1)	0.30	0.39	0.67	0.83	1.23
Total absorbed power (1)	kW (1)	0.48	0.66	0.81	1.06	1.40
Compressor	HP	0.20	0.33	0.50	0.80	1.00
Refrigerant	-	R134a		R410A		
Evaporator	Type	Finned coil - copper tubes-aluminium fins				
Power supply	V/Ph/Hz	230/1/60 - 115/1/60				
Process pump	Type (2)	P	P	P	P	P
	GPM	0.80	1.03	1.79	2.20	3.28
	PSI	52	52	52	52	52
	Construction (3)	B	B	B/R	B/R	B/R
Connections sizes	NPT	1/2"	1/2"	1/2"	1/2"	1/2"
Tank	Volume (gallons)	4	4	4	6	6
	Construction (4)	POL	POL	POL	POL	POL
Dimensions (inches)	Width	19	19	19	19	19
	Depth	26	26	26	26	26
	Height	25	25	25	34	34
Weights (pounds)	Shipping	165	170	172	212	220

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

(1) Evaporator water inlet/outlet temperature 55°/45 °F, external air temperature 95 °F.

(2) Peripheral - positive displacement.

(3) B=brass. B/R = brass/Ryton polymer.

(4) POL = polyethylene.



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



cUL Certification

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