



PROCESS COOLING  
SOLUTIONS

# TAE<sup>ev</sup><sub>in</sub> TECH MINI

## Portable Air-Cooled Industrial Chillers

Cooling capacity from 0.3 to 1.2 Tons

- ❄ *Efficient, Evaporator-In-Tank Design*
- ❄ *Rugged, Industrial Construction*
- ❄ *Low Coolant Temperature Capability*
- ❄ *Non-Ferrous Coolant Circuit*
- ❄ *Advanced Electronic Controls*



### A new generation of portable industrial chillers

"Craft-scale" manufacturing is on the rise and smaller industrial processors have the same need for intelligent & reliable cooling solutions as their larger cousins.

Developed as a logical extension of MTA's flagship TAEevo range, the TAEevo 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.



Cooling, conditioning, purifying.

## ❄️ Maximum Performance & Applicability

The design of the MINI has been engineered to ensure class-leading performance and reliability. The innovative finned-coil evaporator maximizes heat transfer surface while reducing coolant pressure drop and the effects of fouling. The non-ferrous hydraulic circuit is compatible with a wide range of process coolants including deionized water and glycol mixtures.

## ❄️ 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. Options for casters and external valves provide portability. And the dual frequency design of model M03 allows global operation at either 50 or 60Hz.

## ❄️ 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.

## ❄️ Wide Operating Range

Accepting coolant inlet temperatures up to 95°F (35°C) and providing coolant outlet temperature as low as 23°F (-5°C) allows the TAEvoTech MINI to meet the widest range of applications. And with an ambient air temperature limit of 113°F (45°C), the MINI performs well even in extreme environments.

## Standard features:

- Eco-friendly refrigerants (R134a or R410a)
- Large coolant storage tank with evaporator
- Tank drain, fill & overflow connections
- Non-ferrous coolant circuit
- Coolant level indicator
- Cleanable metal condenser air filter
- Digital microprocessor-based control
- Large red/green status light
- Remote start/stop input and alarm output contacts

## Available Options:

- Casters
- Higher pressure pump (72 psi)
- Tank level switch
- Close temperature control (+/- 1°F)
- Dynamic setpoint (follows ambient temperature)
- Stainless steel wash-down casing (IP54)
- Coolant pressure by-pass kit
- Coolant isolation kit

Innovative tank-mounted evaporator



Controller with digital & icon displays



TAEvo Tech MINI		03	05	08	10
Cooling capacity¹	Tons	0.39	0.67	0.83	1.23
Total absorbed power¹	kW	0.66	0.81	1.06	1.40
Compressor	HP	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			
Pump	Type²	P	P	P	P
	GPM	1.03	1.79	2.20	3.28
	PSI	52	52	52	52
	Construction³	B	B/R	B/R	B/R
Connections	NPT	1/2"	1/2"	1/2"	1/2"
Tank	Volume (gallons)	4	4	6	6
	Construction⁴	POL	POL	POL	POL
Dimensions (inches)	Width	19	19	19	19
	Depth	26	26	26	26
	Height	25	25	34	34
Shipping weight	lbs	170	172	212	220

<sup>1</sup>Evaporator water inlet/outlet temperature 55°/45 °F, external air temperature 95 °F.

<sup>2</sup>Peripheral - positive displacement.

<sup>3</sup>B=brass. B/R = brass/Ryton polymer.

<sup>4</sup>POL = polyethylene.



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