

TAEvo TECH

Air-Cooled Liquid Process Chiller
R-410a Nominal Cooling Capacity 2-53 Tons



With the acquisition of MTA, Trane has expanded its product portfolio to include purpose-built units for a myriad of industrial process cooling applications.

Well suited for both indoor and outdoor installation, the TAEvo TECH chiller helps enable applications that require high performance, reliability and continuity of operation in difficult industrial environments. The TAEvo TECH, offering 2-53 tons of cooling capacity, is designed for industrial use with space and functionality in mind, can fit in tight spaces and features a more forgiving tube evaporator.

Helping to offer reliability and compatibility

The finned-tube evaporator installed in the TAEvo TECH coolant storage tank helps provide lower pressure drop and reduced fouling and chance of failure due to freezing, clogging and/or pressure drops compared to a brazed-plate evaporator, allowing a high level of reliability in heavy industrial applications. The available stainless steel tank non-ferrous option means it is compatible with a wide variety of coolants. Its air-cooled condenser is installed on one side only, reducing footprint requirements. And the insulated, pressure-rated tank offers a steady supply of cold process fluid as well as the flexibility to be operated as either an open or closed loop.

Increased flexibility with built-in controls

The TAEvo TECH is packaged with on-board pump(s), coolant buffer tank and controls for “plug & play” installation and features a small footprint design that can be installed inside or outside. And most models are readily available or can be built to order in 14-16 weeks, with local Trane service locations offering quick response for assistance with installation, start-up and maintenance.

Added condenser protection and ease of maintenance

Standard from 3 tons, cleanable, removable aluminum condenser air filters/hail guards help provide added condenser protection and ease of maintenance while, as an isolated section, the fan section allows for troubleshooting during operation.

Ideal for those involved in daily manufacturing oversight

The TAEvo TECH is ideal for those involved in day-to-day manufacturing oversight, such as production supervisors, operators and internal engineering teams, and machinery OEMs, who manufacture products where process cooling is a critical component. Its wide range of supply temperatures help offer suitability for different needs in multiple industries, including:

- Aggregate and concrete
- Beverage
- Chemical
- Food
- Laser
- Mechanical
- Medical
- Printing/graphics/paper
- Rubber and plastics
- Solvent recovery
- Vision/sorting
- Waste energy/biomass

TAEvoTECH MODEL		020	031	051	081	101	121	161	201	251	301	351	381	401	402	502	602	702	802	
Cooling capacity ¹	Tons	1.9	3.2	4.5	7.5	9.1	11.5	13.0	14.9	16.6	19.7	22.0	27.1	30.0	30.7	35.7	39.3	45.5	52.8	
Absorbed power ¹	kW	2.9	4.3	6.1	9.8	11.9	14.6	17.5	19.6	23.8	25.9	32.7	34.8	39.8	40.3	46.2	52.9	62.1	71.6	
Flow rate ¹	gpm	4.7	7.6	10.8	18.0	21.9	27.6	31.3	35.8	39.9	47.2	52.9	65.0	72.0	73.6	85.7	94.4	109.0	127.0	
Cooling circuits	N ^o	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
Compressors per circuit	N ^o	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	
Power	V/PH/Hz	460/3/60 (optional 230/3/60)								460/3/60										
Fans	N ^o	1	1	1	1	2	2	2	2	2	3	3	2	2	2	2	2	2	3	3
Fan power (each)	kW	0.45	0.76	0.76	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Total airflow	cfm	2,470	4,530	3,590	5,825	9,945	9,415	9,415	11,535	11,415	15,625	15,625	25,662	24,367	25,895	25,070	24,285	43,967	42,378	
Pump power P3 (43 psig)	kW	0.8	0.8	0.8	0.9	0.9	1.9	1.9	1.9	1.9	2.2	2.2	4.0	4.0	4.0	4.0	4.0	5.5	5.5	
Pump power P5 (72 psig)	kW	1.5	1.5	1.5	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	7.5	7.5	7.5	7.5	7.5	11.0	11.0	
Tank volume	gal	16	30	30	37	67	67	67	93	93	93	93	108	108	132	132	132	179	179	
Water connections	NPT	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"	
Sound pressure (@ 10m)	dB(A)	53.9	54.6	55.7	55.9	57.0	56.2	57.1	59.2	59.1	60.6	60.3	63.0	65.2	64.5	64.6	64.3	64.4	65.6	
Width	inch	22	26	26	30	30	30	30	34	34	34	34	45	45	49	49	49	49	49	
Length	inch	50	52	52	73	73	73	73	89	89	89	89	110	110	130	130	130	139	139	
Height	inch	31	55	55	57	57	57	57	81	81	81	81	82	82	85	85	85	85	85	
Weight (installed)	lbs	470	721	772	1,088	1,439	1,455	1,490	2,161	2,344	2,379	2,403	3,140	3,328	3,821	3,929	4,008	5,048	5,092	

¹ @ nominal conditions of 54°F (12°C) water inlet, 44°F (7°C) water outlet & 95°F (35°C) ambient air temperatures



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

Backed by Trane Service

The TAEvo TECH is backed by Trane service, to ensure operational continuity. Our nationwide service network is available 24/7.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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