

ARIES TECH 2

Air-Cooled Liquid Process Chiller
Nominal Cooling Capacity 57-195 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.

The ARIES TECH 2 offers a fully packaged industrial-grade chiller that combines reliable refrigeration with onboard coolant pumping and storage to provide single point cooling solutions. Designed with redundancy in mind, the ARIES TECH 2 air-cooled liquid chiller features an onboard controller and double pumps to improve uptime and extend the life of components. The ARIES TECH 2, designed for outdoor installation and suitable for industrial applications, with a larger capacity than our

TAEvo TECH and TAEvo TECH MINI air-cooled liquid chillers, is configured with two refrigerant circuits that each feature two hermetic scroll compressors. Finned coils and EC brushless fans in the condensing section enhance control and help improve efficiency while a programmable microprocessor control manages all main functions, including regulation, alarms and interface with external systems.

Evaporator and condenser help provide exceptional efficiency

The ARIES TECH 2 features a shell and tube type evaporator with a carbon steel shell and copper tubes and configured with both a single hydraulic and double refrigerant circuit that help provide efficiency during all load conditions, including part load. Meanwhile, its modular transverse “V” condensing coils help improve thermal surface area while helping to reduce the chiller footprint.

Combining reliable refrigeration with single-point cooling solutions

Its double pumps help with redundancy and load balance and help extend the life of components. And you do not have to shut the ARIES TECH 2 down in case of failure.

Designed for reliable chiller performance

Reliable chiller performance is designed into the ARIES TECH 2 chiller; uptime is not left to chance. Its control section includes an interlocked main door switch to prevent access while the power supply is on while a control power transformer provides single-point power connection. Electrical panel equipment is UL508a compliant with a protection level of IP54 and each chiller is tested for electromagnetic compatibility in accordance with applicable EMC standards.

AST2 MODEL		075	090	105	115	140	150	170	190	210	240
Cooling capacity ¹	Tons	57.0	67.1	80.5	93.9	105.7	121.3	143.3	154.8	178.9	195.4
Absorbed power ¹	kW	66.7	79.7	90.4	111.4	127.1	138.0	164.0	177.6	210.8	227.2
Flow rate ¹	gpm	137	161	193	225	254	291	344	372	429	469
Cooling circuits	Nº	2	2	2	2	2	2	2	2	2	2
Compressors per circuit	Nº	2	2	2	2	2	2	3	3	3	3
Power	V/Ph/Hz	460/3/60									
Pump power P3 (43 psig)	kW	7.5	7.5	7.5	9.2	9.2	11.0	15.0	15.0	18.5	18.5
Tank volume	gal	132	132	132	132	132	211	211	211	211	211
Water connections	Vic	3"	3"	4"	4"	5"	5"	5"	6"	6"	6"
Sound pressure (@ 10m)	dB(A)	64.9	66.4	67.3	68.1	68.1	69.1	67.6	68.8	70.1	71.5
Width	inch	95	95	95	95	95	95	95	95	95	95
Length	inch	140	140	140	140	140	179	218	218	257	257
Height	inch	86	86	86	86	86	86	86	86	86	86
Weight (installed)	lbs	4,950	5,206	6,531	6,774	7,590	9,029	10,386	10,919	12,833	12,997

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 ARIES TECH 2 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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Reliable and efficient monitoring and management help allow for continuity

The ARIES TECH 2 features onboard controls that help enable you to monitor and manage other units reliably and efficiently, allowing for manufacturing process continuity. Its built-in controls for multiple units help offer increased flexibility and capacity control while MODBUS® over IP communication allows for remote monitoring and control.

Ideal for those involved in daily manufacturing oversight

The ARIES TECH 2 is ideal for those involved in day-to-day manufacturing oversight, such as production supervisors, operators and internal engineering teams, and machinery OEMs, who procure chillers for their customers and manufacture products with a chiller component.

Applicable markets include:

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