

Thermafit® Modular Air-Source Multi-Pipe

Modular, Efficient, Dual-Function Heat Pump Chiller



The Thermafit® MAS eliminates the traditional approach of separate heating and cooling. This modular unit provides an all-electric solution for facilities needing simultaneous heating and cooling with operational redundancy.



FEATURES & BENEFITS

Cold Climate Performance Without Compromise

- Offers dependable performance, even under extreme conditions.
- Lab-verified to deliver heating in outdoor ambient temperatures as low as -18°F (-28°C) and can produce hot water temperatures up to 140°F (60°C).
- Exceptional cold-weather performance is enabled by a vapor-injection scroll compressor, which significantly extends the operating range for consistent heating.

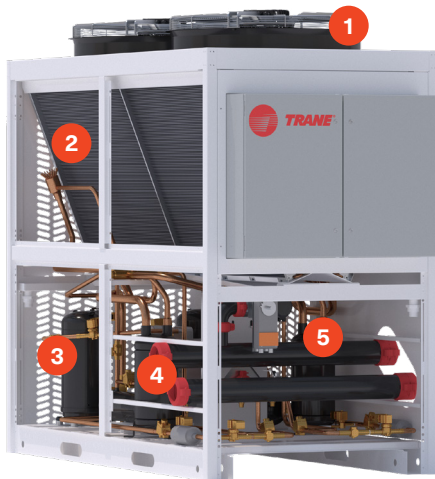
Operate with Confidence

- A modular chiller design eliminates the single points of failure common in traditional systems, ensuring continuous operation.
- If one module goes down, the others keep running without interruption, helping protect your facility from unexpected downtime.

All-Electric Efficiency and Sustainability

- Eliminate direct fossil-fuel emissions and cut energy costs—MAS delivers heating up to 8.3 times more efficiently than standard electric solutions.
- Powered by low-GWP R-454B refrigerant, MAS is the responsible choice for tomorrow's standards.
- Product Environmental Profile (PEP) Ecopassport® available on Trane.com

Reliable heating and cooling. Performance is verified in our testing lab.



- 1 ECM VARIABLE SPEED CONDENSER FANS**
Improves efficiency and acoustics at part load conditions.
- 2 DUAL DUTY REFRIGERATION COILS**
Fin and tube construction coils that function as evaporators or condensers based on operational mode, with an option for epoxy.
- 3 VAPOR INJECTION COMPRESSOR**
Improves heating capacity and efficiency down to -18°F outdoor ambient.
- 4 COMMON HYDRONIC HEADERS**
Factory installed strainers, flow switches, automatic isolation valves, and temperature sensors reduce field piping requirements, streamlining installation and commissioning.
- 5** Includes sloped drain pan with optional heat trace.

Air-to-Water Thermafit® Modular Heat Pump System

Trane's® Thermafit® Air to Water Modular Heat Pump System is a fully packaged, all-electric modular solution engineered for compact building footprints and proven to perform in low ambient temperatures. Vapor injection technology supports high-leaving hot water temperatures up to 140°F and allows units to operate in heating mode down to -18°F outdoor air temperatures.

THERMAFIT® MODEL MAS

Multi-pipe units available in 4-pipe configurations, offering easy integration for new or retrofit projects.

THERMAFIT® MODEL AXM

Modular flexibility with proven performance in colder climates; all-electric heating and cooling helps reduce direct emissions.

TRACER SC+

Advanced applied pre-engineered control sequences help balance multiple priorities: reliability, carbon reduction, efficiency, and energy cost savings.

AIR-COOLED CHILLERS*

Reliable, energy-efficient operation in a compact package to help lower installation, maintenance, and operating costs.

AUXILIARY HEAT*

Helps provide consistent comfort and reliable performance, even during periods when supplemental heating is required.

HYDRONIC BRANCH CONDUCTOR*

Enables efficient low-temperature hot water heating through cost-effective distribution. Can be used in retrofits with existing piping and coils.

**Available System Enhancement Options with Pre-Engineered Control Sequences*

THERMAFIT® MAS PRODUCT SPECIFICATIONS

Performance Data			
	Cooling	Heating	Simultaneous
Capacity	30T	390.3 MBH	437.2
Efficiency	9.955 EER	3.81 COP	8.36 Combined COP
Temperature Range*	20°F - 65°F	70°F - 140°F	90°F - 140°F
Min Ambient	0°F	-18°F	
Max Ambient	115°F	95°F	

Electrical Data		
Voltage	MCA	MOP
208V/60Hz/3	142.0	175.0
460V/60Hz/3	68.0	90.0
575V/60Hz/3	50.0	60.0

Physical Data	
Modules per Bank	3-10
Compressor	Tandem, Vapor Injection Compressors
Number of Compressors (Per Module)	2
Refrigerant	R-454B
Refrigerant Charge (lbs) (Per Module)	87
Module Weight (lbs)	3000

Dimensional Data		
Length	Width	Height
105"	48"	96.6"



E+E Leader 2025 Top Product in
Business & Infrastructure



FacilitiesNet 2024 Vision Award
winner in the HVAC category



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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.