

# Thermafit™ Modular Air-to-Water Heat Pump Chiller Model AXM



## Modular, Efficient, and Eco-Friendly Heating

The Thermafit™ AXM combines modular flexibility with Trane's verified performance in colder climates. As a heat pump, it's 3.5-times more efficient than other forms of electric heating and eliminates direct emissions caused by fossil-fuel heating.



## Features & Benefits

### Continuous Heating in Cold Climates

Vapor injection compressors improve low ambient heating, extending the operating envelop to support operation in ambient temperatures as low as -18F.

### Adaptive Defrost Control

Trane's® adaptive defrost control helps lower the impact on hot water production. Our advanced algorithm monitors coil, outdoor-ambient, and refrigerant temperatures to initiate defrost cycles lasting four minutes or less. It also sequences the modules to minimize how many are in defrost at the same time.

### Modular Design

Our compact modular design supports easy scaling to achieve greater capacity or allowing future growth. Systems can incorporate up to 12 modules while maintaining a footprint smaller than conventional chillers.

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



#### 1 VAPOR INJECTION COMPRESSOR

Improves heating capacity and efficiency down to -18F outdoor ambient

#### 2 REVERSING VALVE

Switches direction of refrigerant flow, allowing system to provide either heating or cooling

#### 3 DEDICATED CONTROLLER PER MODULE

Each module can operate independently on its own temperatures sensors should the primary controller fail

#### 4 INTEGRAL, INSULATED HYDRONIC HEADER

Factory installed individual module strainer, flow switch, manual and electronic isolation valves and temperature sensors reduce field piping requirements, streamlining installation and commissioning

#### 5 ECM FANS

Improve efficiency and acoustics at part load conditions

#### 6 SLOPED DRAIN PAN

Improved condensate management during defrost cycles

### Measurements

Length: 97" Height: 90" Width: 48"

# Trane® Air-to-Water Thermafit™ Modular Heat Pump System

Trane's Air-to-Water Thermafit™ Modular Heat Pump System is a scalable, all-electric modular solution engineered for compact building footprints and proven to perform in low ambient 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™ AXM Product Specifications

Performance Data		
	Cooling	Heating
Capacity	30T	400 MBH
Efficiency	9.9 EER	3.5 COP
Temperature Range*	20°F - 65°F	75°F - 140°F
Min Ambient	0°F	-18°F
Max Ambient	115°F	95°F
Physical Data		
Modules Per Bank	1-12	
Compressor	Vapor Injection Compressors	
Number of Circuits	2	
Refrigerant	R-454B	
Refrigerant Charge (lbs)	86	
Module Weight (lbs)	3000	
Electrical Data		
Voltage	MCA	MOP
208V/60Hz/3	140.0A	175.0
460V/60Hz/3	67.0	90.0
575V/60Hz/3	49.0	60.0
Dimensional Data		
Length	Width	Height
97"	48"	90"



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