

MULTI **ULTRA** Ductless heat-pump systems 24,000 BTU

Submittal Data: TM24H50		Heat Pump System	
Job Name		Location	
Purchaser		Date	
Submitted To		Engineer	
Submitted To		For ☐ Reference ☐ Approval ☐ Construction	
Unit Designation		Schedule No.	
GENERAL FEATURES -Up to 3 Indoor Units (3-Port) -G10 DC Inverter Technology R410A -Automatic Defrosting -Compressor/Chassis Heaters -Copper Tubing w/ Acrylic-Resin Coated Aluminum Fins -Intelligent Defrost -Auto Restart on Power Outages -Multi-point Diagnostics -Limited 5 yr Parts & Compressor Warranty-Residential Only			
System Ratings		Outdoor Unit Data	
Rated Cooling Capacity 22,000 BTUH		Compressor Type DC Inverter Driven Rotary	
Cooling Capacity (min-max) 7,500-33,000 BTUH		RLA 17.0 A	
Rated Heating Capacity 26,000 BTUH		Starting Current 5.0 A	
Heating Capacity (min-max) 7,500-31,000 BTUH		Fan Motor Output Power 90 W	
SEER/EER 23.0 / 12.5		FLA 0.4 A	
HSPF/COP 10.5 / 3.7		Air Flow (Max) 2531 CFM	
Operating Range		Sound Pressure Level	
Cooling - Low/High Ambient (min-max) 0 - 118°F		Cooling 60 dB(A)	
		Heating 60 dB(A)	
		Dimensions & Weights	
Heating - Low Ambient (ULTRA) (min-max) -31 - 75°F		Unit Dimensions Overall (WxDxH)* 39.5 x 16.8 x 31.1-in	
		* including Valve Covers and Grilles	
		Weight (Net/Shipping) 174/185-lbs	
		Min. Number of Indoor Units 2	
		Max. Number of Indoor Units 3	
Power Supply		Refrigerant Piping Data	
Normal Operational Voltage 208/230 V, 1 Phase, 60 Hz		Refrigerant Type R410A	
Voltage Range 187 - 253 V		Refrigerant Charge 95.2 oz	
Main Power Wire Size 10-2 AWG		Additional Charge Per Line Length 0.2-oz/ft	
Interconnecting Cable Wire Size 14-4 AWG		Connection Method-Flared 1/4x3/8-in	
MCA 23.0 A		Factory Charge for Total Line Length 98-ft	
MOCP/Breaker Size 40 A		Total Refrigerant Pipe Length 230-ft	
		Max Refrigerant Piping Length to any Indoor Unit 82-ft	
		Min Refrigerant Piping Length to any Indoor Unit 10-ft	
		Max Elevation between Indoor Units 26-ft	
		Max Lift from Outdoor to Indoor Unit 26-ft	
		Max Drop from Outdoor to Indoor Unit 26-ft	



SYSTEM FEATURES

Compressor Type	Inverter Rotary
Core Technology Three Cylinder Two Stage Compressor	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Refrigerant Type	R410A
Electronic Expansion Valve (EEV)	3
Basepan With Electric Heater	YES
Compressor Preheat	YES
Compressor With Electric Heater (-40°F)	YES
-40°F Wiring UL Approved	YES
Multi "Independent" Port Design	YES
Condenser Fan	Axial
Condenser Motor Type	DC
Condenser Motor Drive	Direct
Condenser Coil	Aluminum Fin/Copper Tube
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Ultra Heating (-31°F - 75°F)	YES
Ultra Cooling (0°F - 118°F)	YES
XK19 Wired Controller Interface	YES

REMOTE CONTROLLER FUNCTIONS¹

 See individual Indoor Unit
Controllers Functions

¹ Not all Remote Controller functions are supported.

XK19 WIRED CONTROLLER FUNCTIONS²

On/Off	YES
Operating Mode	YES
Fan Speed	YES
Room Setpoint	YES
Model Numbers	YES
Timer Mode	YES
Sleep Mode	YES
Turbo Mode	YES
X-Fan Mode	YES
Privacy Lock	YES

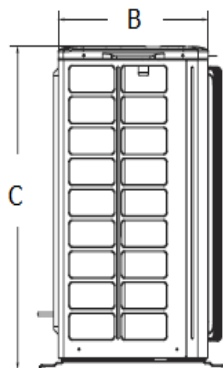
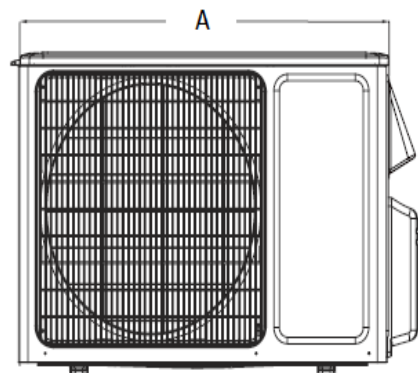
² Note: Some indoor models may not support specific system features or functions.

24,000 BTUH MODEL

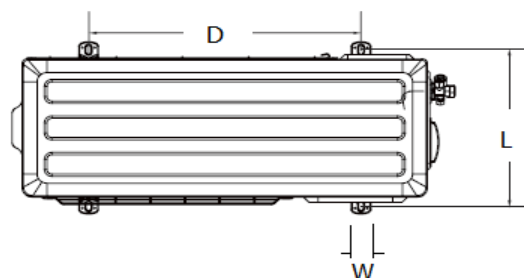
Model # TM24H50

24,000 BTUH 230V

Units: inch



A (in)	36.2
B (in)	14.6
C (in)	31.1



D (in)	24.0
L (in)	15.6
W (in)	2.4

Weight (Net/Shipping)	174/185 lbs
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Suction/Gas Line Port Size

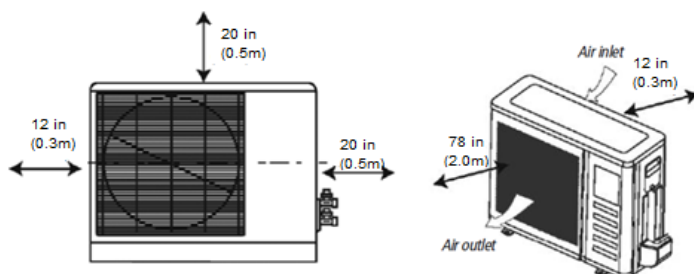
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared
Port #3	3/8-in OD Flared

Liquid Line Port Size

Port #1	1/4-in OD Flared
Port #2	1/4-in OD Flared
Port #3	1/4-in OD Flared

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)

**Notes:**

1. Recommended Interconnecting Cable Type Stranded Copper Conductors THHN 600V Unshielded Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

ULTRA HEAT
ULTRA COOL
COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	18,000	9,000	9,000	NA	NA
9K + 12K	21,000	9,000	12,000	NA	NA
9K + 18K	25,000	8,400	16,600	NA	NA
12K + 12K	24,000	12,000	12,000	NA	NA
12K + 18K	25,000	10,000	15,000	NA	NA
18K + 18K	25,500	12,750	12,750	NA	NA
9K + 9K + 9K	26,001	8,667	8,667	8,667	NA
9K + 9K + 12K	26,000	8,000	8,000	10,000	NA
9K + 9K + 18K	26,000	7,000	7,000	12,000	NA
9K + 12K + 12K	26,000	6,000	10,000	10,000	NA
12K + 12K + 12K	26,001	8,667	8,667	8,667	NA

HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	19,000	9,500	9,500	NA	NA
9K + 12K	22,500	9,500	13,000	NA	NA
9K + 18K	27,000	9,000	18,000	NA	NA
12K + 12K	26,000	13,000	13,000	NA	NA
12K + 18K	28,000	11,200	16,800	NA	NA
18K + 18K	28,500	14,250	14,250	NA	NA
9K + 9K + 9K	29,001	9,667	9,667	9,667	NA
9K + 9K + 12K	29,000	9,000	9,000	11,000	NA
9K + 9K + 18K	29,000	6,000	6,000	17,000	NA
9K + 12K + 12K	29,000	6,000	11,500	11,500	NA
12K + 12K + 12K	29,001	9,667	9,667	9,667	NA

Capacity data is based on the following conditions :

Cooling Nominal Test Conditions

Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

Heating Nominal Test Conditions

Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F W