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SUBMITTAL

15 SERIES

Specifications

Multi Zone Mini-Split Inverter System

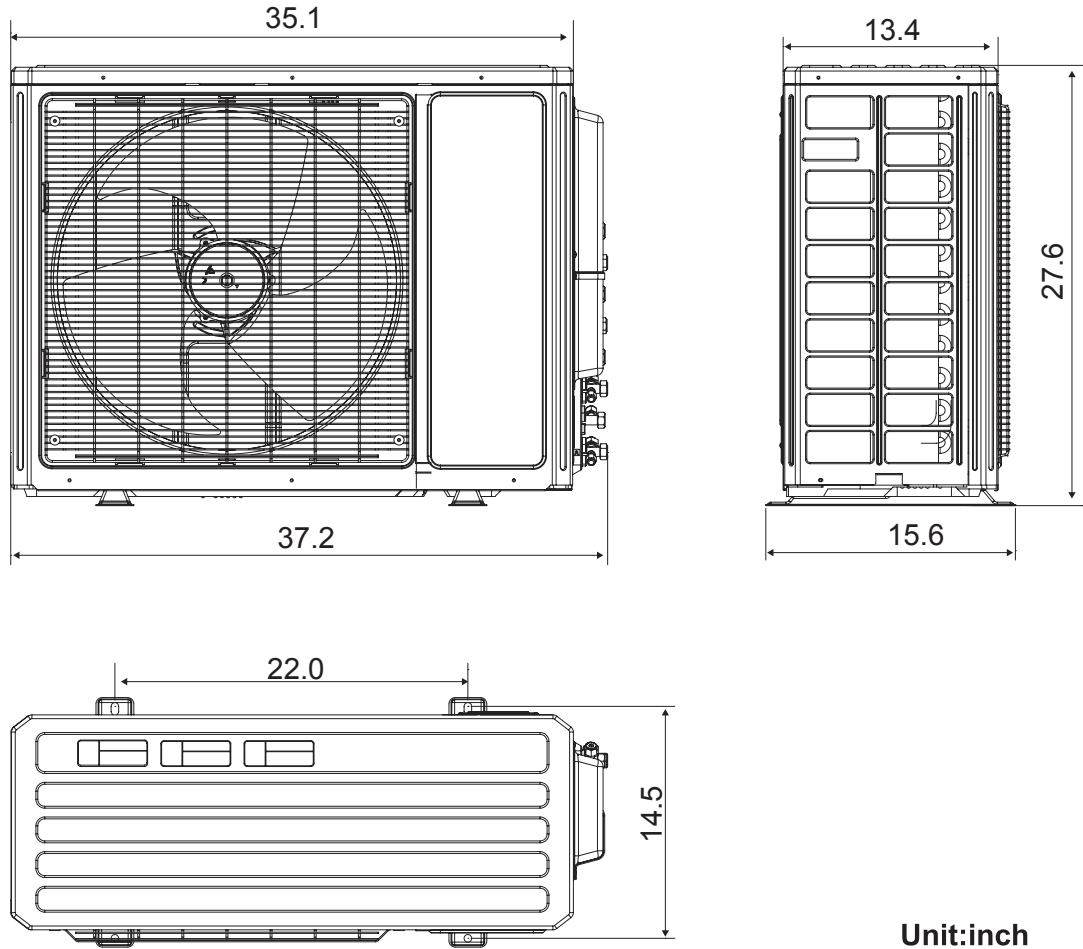
M4THM1530A14NB

MODEL - Heat Pump Only	M4THM1530A14NB
RATED Volts/PH Frequency (Hz)	208 / 230 / 1 60Hz
Outdoor Unit	M4THM1530A14NB
Rated Cooling Capacity	29000
Cooling Capacity Range (Btu/h)	7500 - 34000
Rated Heating Capacity	30500
Heating Capacity Range @ 47 F (Btu/h)	7500 - 36000
Max. Heating Capacity @ 17 F (Btu/h)	16500
Max Heating Capacity @ 5 F (Btu/h)	13300
SEER / HSPF	15.0 / 8.2
EER	8.0
Compressor Type	Inverter Rotary
L.R.A. (A)	45
Compressor RLA(A)	19.62
Compressor Power Input(W)	2200
Throttling Method	EEV
Working Temp Range (°F) Cooling/Heating	0 ~ 118 5 ~ 75
Condenser	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	3/8
Row Fin Gap (inch)	2 - 0.055
Coil length (L) x height (H) x coil width (W) (inch)	35.0 x 1.7 x 25.0
Fan Motor Speed (rpm)	690 / 600 / 500
Output of Fan Motor (W)	60
Fan Motor RLA (A)	0.59
Fuse (A)	45
Air Flow Volume of Outdoor Unit (CFM)	1530
Fan Diameter (inch)	20.5
Defrosting Method	Automatic Defrosting
Sound Power Level dB (A)	66
Sound PRESSURE Level dB (A)①	56
Uncrated Dimension (W/D/H) (inch)	37.2 x 15.6 x 27.6
Crated Dimension of Package (L/W/H) (inch)	40.5 x 18.0 x 29.5
Net Weight /Gross Weight (lbs)	136.7 / 147.7
Refrigerant Charge (oz)	77.62
MCA	26.0
M.O.P	45.0
Connection Pipe	
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	3/8
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	3/8
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	3/8
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	3/8
Outer Diameter Liquid Pipe (inch)	/
Outer Diameter Gas Pipe (inch)	/
Max Height Distance (ft)	33
Max Length Distance (ft) - Single Unit Each	65
Max Length Distance (ft) - Multiple Units Total	230

① Sound PRESSURE Level @ 3.3 ft. dB(A)

Outdoor Unit

24K-30K Unit



Unit:inch

NOTES:

- The refrigerant charge mentioned in the technical data does not include additional charge required for the indoor unit(s) and the refrigerant pipe.
- The amount of the additional refrigerant charge depends on the length of the liquid refrigerant pipe installed and the number of indoor units connected.
- Record the additional refrigerant charge for future maintenance.

Calculation of the Additional Refrigerant Charge:

Unit: Feet

	M4THM1518	M4THM1524	M4THM1530	M4THM1536	M4THM1542
Maximum total length	75	230	230	230	260
Maximum length to single IDU	33	65	65	65	80
Minimum distance to single IDU	10	10	10	10	10
Maximum ODU/IDU height difference	16	33	33	50	50
Maximum IDU/IDU height difference	16	25	25	25	25
Maximum w/o adding charge	66	100	130	130	165
Minimum w/o removing charge	33	50	65	80	100
Amount of R410-A +/- (oz/ft)	0.22	0.22	0.22	0.24	0.24

Ductless Multi-Zone Approved Combinations

	Indoor Unit Combinations with Associated Nominal Capacity (kBTUH)									
Outdoor Unit	Two Units		Three Units			Four Units			Five Units	
M4THM1518A12N 18,000 BTUH	9+9	12+12								
	9+12									
Outdoor Unit	Two Units		Three Units			Four Units			Five Units	
M4THM1524A13N 24,000 BTUH	9+9	9+12	9+9+9	9+12+12	12+12+12					
	9+18	12+12	9+9+12	9+9+18						
	12+18	18+18								
Outdoor Unit	Two Units		Three Units			Four Units			Five Units	
M4THM1530A14N 30,000 BTUH	9+9	9+12	9+9+9	9+9+12	9+9+18	9+9+9+9	9+9+9+12	9+9+12+12		
	9+18	12+12	9+12+12	9+12+18	12+12+12					
	12+18	18+18	12+12+18							
Outdoor Unit	Two Units		Three Units			Four Units			Five Units	
M4THM1536A14N 36,000 BTUH	9+9	12+18	9+9+9	9+12+18	12+12+18	9+9+9+9	9+9+12+18			
	9+12	12+24	9+9+12	9+12+24	12+12+24	9+9+9+12	9+9+18+18			
	9+18	18+18	9+9+18	9+18+18	12+18+18	9+9+9+18	9+12+12+12			
	9+24	18+24	9+9+24	9+18+24	18+18+18	9+9+9+24	9+12+12+18			
	12+12	24+24	9+12+12	12+12+12		9+9+12+12	12+12+12+12			
Outdoor Unit	Two Units		Three Units			Four Units			Five Units	
M4THM1542A15N 42,000 BTUH	9+9	12+18	9+9+9	9+12+24	12+12+24	9+9+9+9	9+9+12+24	9+12+18+18	9+9+9+9+9	9+9+9+18+18
	9+12	12+24	9+9+12	9+18+18	12+18+18	9+9+9+12	9+9+18+18	9+18+18+18	9+9+9+9+12	9+9+12+12+12
	9+18	18+18	9+9+18	9+18+24	12+18+24	9+9+9+18	9+9+18+24	12+12+12+12	9+9+9+9+18	9+9+12+12+18
	9+24	18+24	9+9+24	9+24+24	12+24+24	9+9+9+24	9+12+12+12	12+12+12+18	9+9+9+9+24	9+12+12+12+12
	12+12	24+24	9+12+12	12+12+12	18+18+18	9+9+12+12	9+12+12+18	12+12+12+24	9+9+9+12+12	9+12+12+12+18
			9+12+18	12+12+18	18+18+24	9+9+12+18	9+12+12+24	12+12+18+18	9+9+9+12+18	12+12+12+12+12

Ductless Multi-Zone Quick Reference

Multi-Zone Heat Pumps Outdoor				
18,000 BTUH	24,000 BTUH	30,000 BTUH	36,000 BTUH	42,000 BTUH
M4THM1518A12N	M4THM1524A13N	M4THM1530A14N	M4THM1536A14N	M4THM1542A15N

Multi-Zone Heat Pumps Indoor Options				
	9,000 BTUH	12,000 BTUH	18,000 BTUH	24,000 BTUH
High-Wall Mounted	M4MHW1509A1N	M4MHW1512A1N	M4MHW1518A1N	M4MHW1524A1N

PERFORMANCE DATA

M4THM1530A1 - Cooling Mode Performance Data

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
	68/57°F		73/61°F		80/67°F		82/68°F	
	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
65	27500	21600	29200	22900	31000	24300	33300	26100
70	26900	21100	28600	22400	30700	24100	32900	25800
75	26300	20600	27900	21900	30400	23800	32500	25500
80	25900	20300	27500	21600	30000	23500	32200	25200
85	25500	20000	27200	21300	29700	23300	31800	25000
90	25200	19700	26900	21100	29400	23000	31700	24900
95	24800	19400	26500	20800	29000	22800	31700	24900
100	24300	19100	26000	20400	28800	22600	31300	24500
105	23800	18700	25600	20100	28600	22400	30800	24200
110	23500	18400	25200	19800	28300	22200	30500	23900
115	23200	18200	24900	19500	27900	21900	30200	23700

*Total Capacity **Sensible Heat Capacity

M4THM1530A1 - Heating Mode Performance Data

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
0	21500	21100	20700	20200
5	23000	22600	22200	21700
10	24000	23600	23100	22600
15	24800	24400	23900	23400
20	25600	25200	24700	24200
25	26600	26200	25700	25200
30	27500	27100	26700	26200
35	28100	27800	27300	26900
40	28600	28200	27800	27400
45	30100	29600	29100	28500
50	31100	30500	29900	29200
55	31500	30900	30300	29600
60	31900	31300	30700	30000

*Total Capacity

Mechanical Specifications

Multi-Zone Outdoor Unit

General

This unit comes pre-charged with refrigerant from the factory. It is designed to operate at outdoor ambient temperatures as high as 118 F. Cooling capacities with its associated indoor units shown in the catalog are AHRI certified. It is also ETL listed for outdoor application.

Unit Casing

The unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include a condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi function service valve is standard

Compressor

The compressor features internal over temperature and over pressure protection; it also has dipped hermetic motor windings. Other features include: a centrifugal oil pump and low vibration and noise.

Condenser Coil

The coil consists of aluminum finned coils brazed to copper tubing. It provides air flow resistance, efficient heat transfer, and is protected by the casing.

Low Ambient Cooling

Matched ductless products have a cooling capability to 0° F.

Optional Equipment

Optional outdoor unit accessories

Model Number	Description	M4THM15 Multi-Zone up to 15 SEER
TAYREFLN050	Lineset Kit 1/4x3/8 - 25'	✓
TAYREFLN055	Lineset Kit 1/4x3/8 - 35'	✓
TAYREFLN060	Lineset Kit 1/4x3/8 - 50'	✓
TAYREFLN560	Lineset Kit 1/4x1/2 - 25'	✓
TAYREFLN565	Lineset Kit 1/4x1/2 - 35'	✓
TAYREFLN570	Lineset Kit 1/4x1/2 - 50'	✓
TAYREFLN155	Lineset Kit 1/4x5/8 - 25'	✓
TAYREFLN160	Lineset Kit 1/4x5/8 - 35'	✓
TAYREFLN165	Lineset Kit 1/4x5/8 - 50'	✓

About Trane and American Standard Heating and Air Conditioning

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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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