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SUBMITTAL

15 SERIES

Specifications

Multi Zone Mini-Split Inverter System

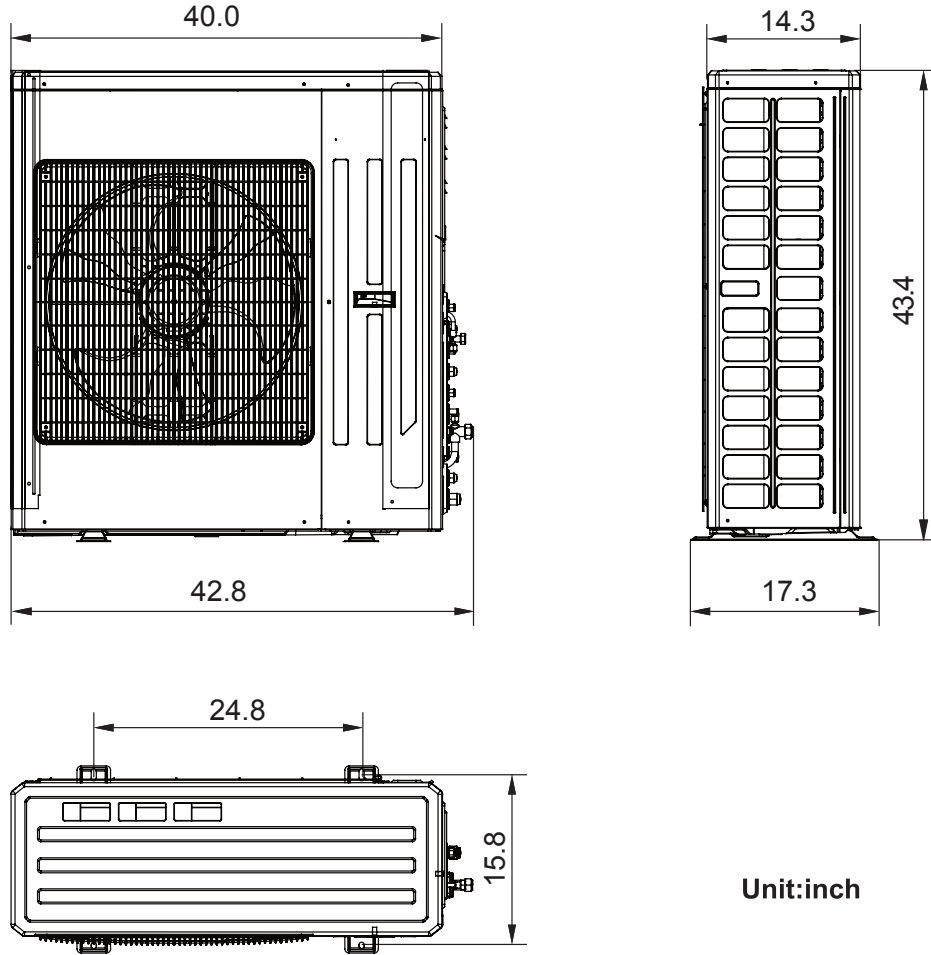
M4THM1542A15NB

MODEL - Heat Pump Only	M4THM1542A15NB
RATED Volts/PH Frequency (Hz)	208 / 230 / 1 60Hz
Outdoor Unit	M4THM1542A15NB
Rated Cooling Capacity	40000
Cooling Capacity Range (Btu/h)	8530 - 46400
Rated Heating Capacity	44500
Heating Capacity Range @ 47 F (Btu/h)	10660 - 47750
Max. Heating Capacity @ 17 F (Btu/h)	24800
Max Heating Capacity @ 5 F (Btu/h)	17600
SEER / HSPF	15.0 / 8.2
EER	9.1
Compressor Type	Inverter Rotary
L.R.A. (A)	60
Compressor RLA(A)	19.07
Compressor Power Input(W)	3010
Throttling Method	EEV
Working Temp Range (°F) Cooling/Heating	0 ~ 118 5 ~ 75
Condenser	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	5/16
Row Fin Gap (inch)	2 - 0.055
Coil length (L) x height (H) x coil width (W) (inch)	40.2 x 1.5 x 41.6
Fan Motor Speed (rpm)	860 / 650 / 550
Output of Fan Motor (W)	140
Fan Motor RLA (A)	1.1
Fuse (A)	50
Air Flow Volume of Outdoor Unit (CFM)	3237
Fan Diameter (inch)	22.4
Defrosting Method	Automatic Defrosting
Sound Power Level dB (A)	68
Sound PRESSURE Level dB (A)①	58
Uncrated Dimension (W/D/H) (inch)	42.8 x 17.3 x 43.4
Crated Dimension of Package (L/W/H) (inch)	45.6 x 19.4 x 48.6
Net Weight /Gross Weight (lbs)	224.9 / 247
Refrigerant Charge (oz)	169.34
MCA	29.0
M.O.P	50.0
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)	1/2
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	1/2
Outer Diameter Liquid Pipe (inch)	3/8
Outer Diameter Gas Pipe (inch)	5/8
Max Height Distance (ft)	50
Max Length Distance (ft) - Single Unit Each	80
Max Length Distance (ft) - Multiple Units Total	230

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

Outdoor Unit

42K Unit



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									
M4THM1518A12N 18,000 BTUH	9+9	12+12								
	9+12									
Outdoor Unit	Two Units		Three 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				
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				
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

M4THM1542A1 - 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	32100	25200	34100	26800	36200	28400	38900	30500
70	31400	24700	33400	26200	35900	28100	38500	30200
75	30700	24100	32600	25600	35500	27800	38000	29800
80	30200	23700	32100	25200	35100	27500	37600	29500
85	29800	23400	31800	24900	34700	27200	37200	29100
90	29400	23100	31400	24600	34300	26900	37100	29100
95	29000	22700	31000	24300	33900	26600	37000	29100
100	28400	22300	30400	23900	33700	26400	36500	28600
105	27800	21800	29900	23400	33400	26200	36000	28200
110	27400	21500	29500	23100	33000	25900	35600	27900
115	27000	21200	29100	22800	32600	25600	35200	27600

*Total Capacity **Sensible Heat Capacity

M4THM1542A1 - 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	34200	33700	33000	32300
5	36700	36100	35400	34600
10	37900	37300	36600	35800
15	38800	38200	37500	36700
20	39600	39000	38300	37500
25	40000	39400	38800	38100
30	40500	39900	39300	38600
35	41000	40500	39900	39200
40	41700	41200	40600	39900
45	43900	43200	42400	41500
50	45300	44500	43600	42600
55	45900	45100	44200	43200
60	46600	45700	44800	43800

*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'	✓

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