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**SUBMITTAL**

15 SERIES

**Specifications**

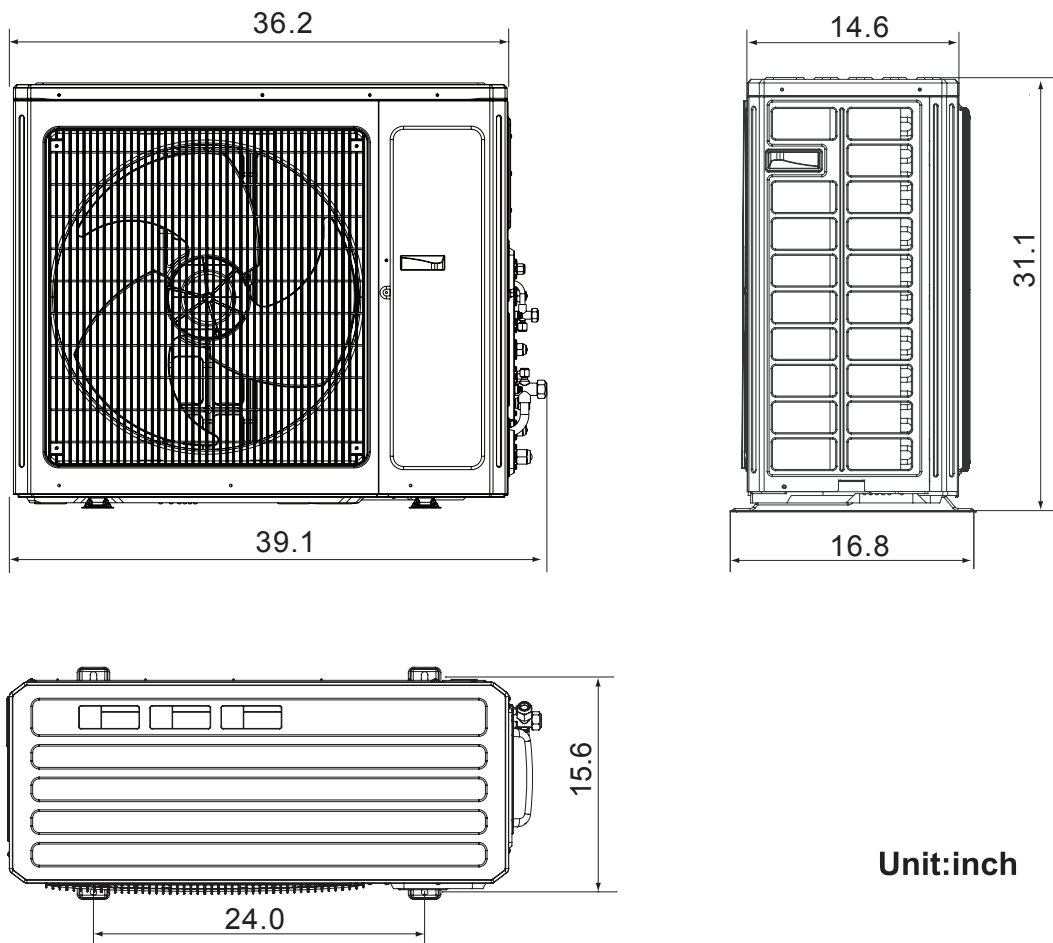
Multi Zone Mini-Split  
Inverter System

M4THM1536A14NB

<b>MODEL - Heat Pump Only</b>	<b>M4THM1536A14NB</b>
RATED Volts/PH Frequency (Hz)	208 / 230 / 1 60Hz
<b>Outdoor Unit</b>	<b>M4THM1536A14NB</b>
Rated Cooling Capacity	34000
Cooling Capacity Range (Btu/h)	8530 - 34100
Rated Heating Capacity	35800
Heating Capacity Range @ 47 F (Btu/h)	10660 - 40900
Max. Heating Capacity @ 17 F (Btu/h)	22000
Max Heating Capacity @ 5 F (Btu/h)	14400
SEER / HSPF	15.0 / 8.2
EER	7.75
Compressor Type	Inverter Rotary
L.R.A. (A)	45
Compressor RLA(A)	21.0
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)	5/8
Row Fin Gap (inch)	2 - 0.063
Coil length (L) x height (H) x coil width (W) (inch)	35.8 x 1.5 x 29.4
Fan Motor Speed (rpm)	820 / 640 / 560
Output of Fan Motor (W)	120
Fan Motor RLA (A)	0.67
Fuse (A)	45
Air Flow Volume of Outdoor Unit (CFM)	2177
Fan Diameter (inch)	21.7
Defrosting Method	Automatic Defrosting
Sound Power Level dB (A)	69
Sound PRESSURE Level dB (A)①	59
Uncrated Dimension (W/D/H) (inch)	39.1 x 16.8 x 31.1
Crated Dimension of Package (L/W/H) (inch)	42.6 x 19.2 x 33.7
Net Weight /Gross Weight (lbs)	152.6 / 165.2
Refrigerant Charge (oz)	102.31
MCA	28.0
M.O.P	45.0
<b>Connection Pipe</b>	
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)	3/8
Outer Diameter Gas Pipe (inch)	5/8
Outer Diameter Liquid Pipe (inch)	/
Outer Diameter Gas Pipe (inch)	/
Max Height Distance (ft)	50
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



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

### M4THM1536A1 - 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	35400	27800	37700	29500	40000	31400	42900	33700
70	34100	26800	36300	28500	38900	30500	41800	32800
75	32800	25800	34900	27400	37900	29700	40600	31900
80	31800	24900	33800	26500	36900	28900	39500	31000
85	30900	24200	32900	25800	35900	28200	38500	30200
90	29900	23500	32000	25100	34900	27400	37700	29600
95	29000	22800	31100	24300	34000	26700	37100	29100
100	28400	22300	30500	23900	33800	26500	36600	28700
105	27900	21900	29900	23500	33500	26300	36100	28300
110	27500	21600	29600	23200	33100	25900	35700	28000
115	27100	21300	29200	22900	32700	25600	35300	27700

\*Total Capacity \*\*Sensible Heat Capacity

### M4THM1536A1 - 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	25200	24800	24300	23700
5	27000	26600	26100	25500
10	28100	27700	27100	26500
15	29100	28600	28100	27400
20	30100	29600	29000	28400
25	31200	30700	30200	29500
30	32300	31800	31300	30700
35	33000	32600	32100	31500
40	33500	33100	32700	32100
45	35300	34800	34100	33400
50	36500	35800	35100	34300
55	37000	36300	35600	34700
60	37500	36800	36100	35200

\*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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