R454b
Refrigerant

SUBMITTAL DATA SHEET

Series Name: EVOX Multi-Position Air Handler Extreme Heat Series
Model Number: MAUHE-H48B-2A/MO1HE-H42B-2A

Midea

Air Handler Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
ESP (in.W.C.)		0-0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1,601 / 1,471 / 1,283 / 1,095 / 1,095
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		52 / 52 / 50 / 34 / 34
Dimension (W×D×H)	**inch**	24-1/2 x 21 x 53
	mm	622 × 534 × 1,346
Package (W×D×H)	**inch**	27-3/8 x 27-3/4 x 56-1/2
	mm	695 × 705 × 1,435
Net/Gross Weight	**lbs**	163 / 191
	kg	73.9 / 86.6

OUTDOOR SPECIFICATION		
Compressor Type		TWIN-ROTARY
Compressor Model		MTH550UKPC8FU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1,800
Refrigerant Oil		HAF68D1C
Outdoor Air Flow (Max) (CFM)		3,037
Dimension (W×D×H)	**inch**	38-9/16 x 16-3/8 x 38-3/8
	mm	980 × 415 × 975
Package (W×D×H)	**inch**	45-1/16 x 19-11/16 x 42-1/2
	mm	1,145 × 500 × 1,080
Net/Gross Weight	**lbs**	201 /232
	kg	91.2 / 105.4

EFFICIENCY			
Cooling		**Heating**	
SEER2	16.7	**HSPF2-4**	9.5
EER2	11.7	**COP**	3.40

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	42,000
Min/Max Capacity	15,600 ~ 51,000
Moisture Removal(L/h)	3.85
Standard Operating Range(°F/°C)	-22~122(-30 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

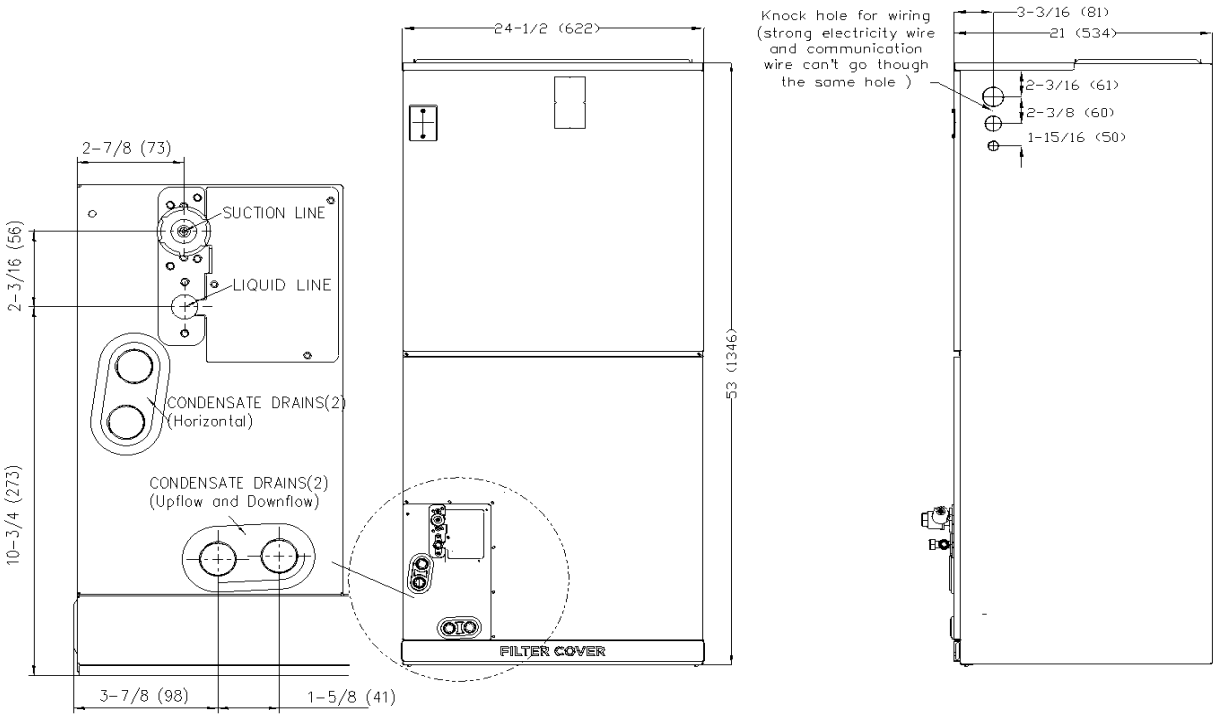
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	50,000
2. @ 47°F Min/Max Capacity	15,500 ~ 57,300
3. @ 17°F Rated	37,000
4. @ 5°F Rated: Capacity / COP	46,000/1.9
5. @ 5°F Max: Capacity	46,000
Standard Operating Range(°F/°C)	-22~75 (-30 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

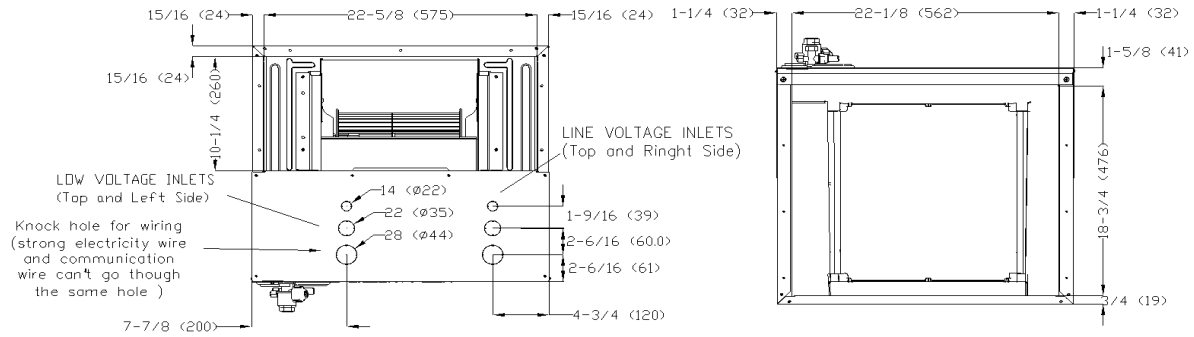
ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/11.0
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	38.0
Outdoor MOP	40.0
Communication Wiring	AWG 20-2
Compressor RLA	28.0
Outdoor Fan Motor RLA	2.0
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	7.8
Indoor Fan Motor W	750
System Power Input @ Cooling (W)	3,590 (1,340 ~ 5,180)
System Power Input @ Heating (W)	4,310 (1,040 ~ 5,200)
MCA: Min. circuit amps (A)	**MOCP: Max. over current protection (A)**
RLA: Rated load amps (A)	**W: Fan motor rated output (W)**

PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98.4 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	134 (3.8)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

Indoor Unit Dimension

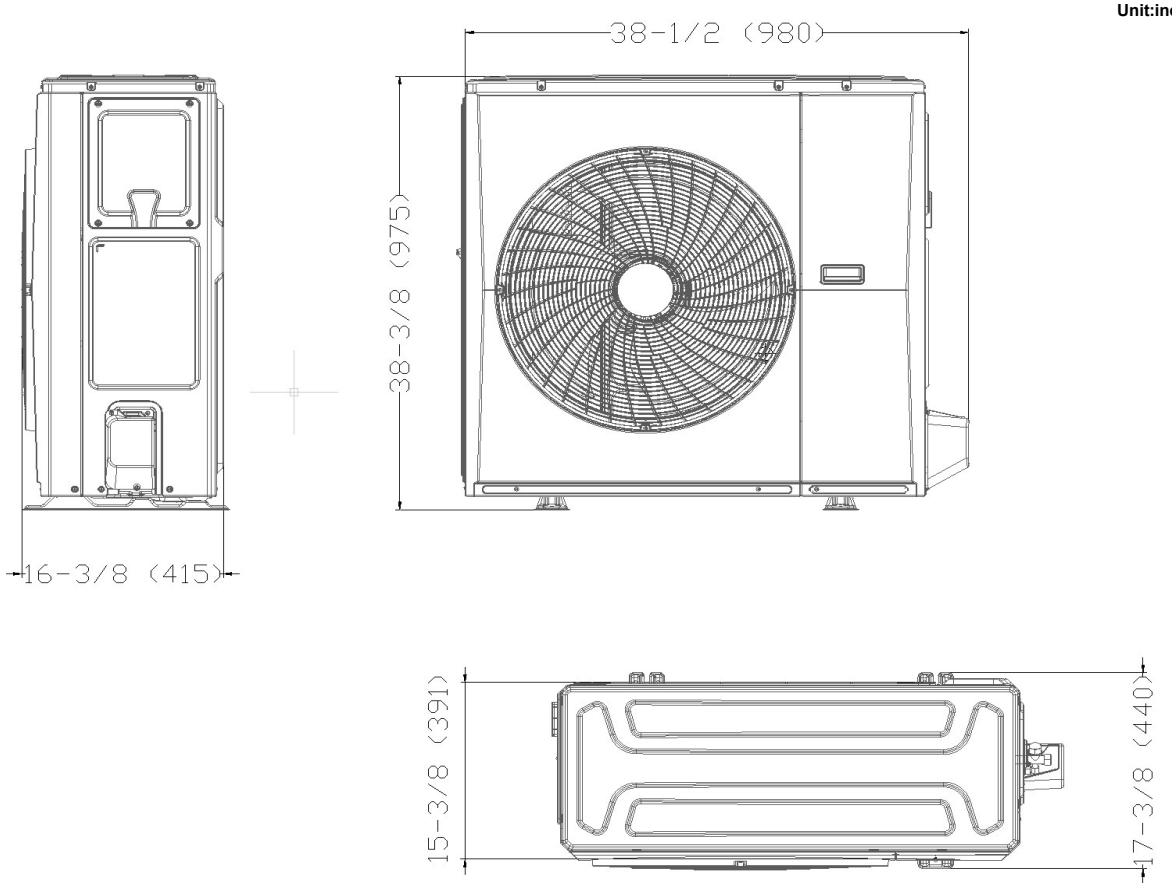
Unit:inch(mm)



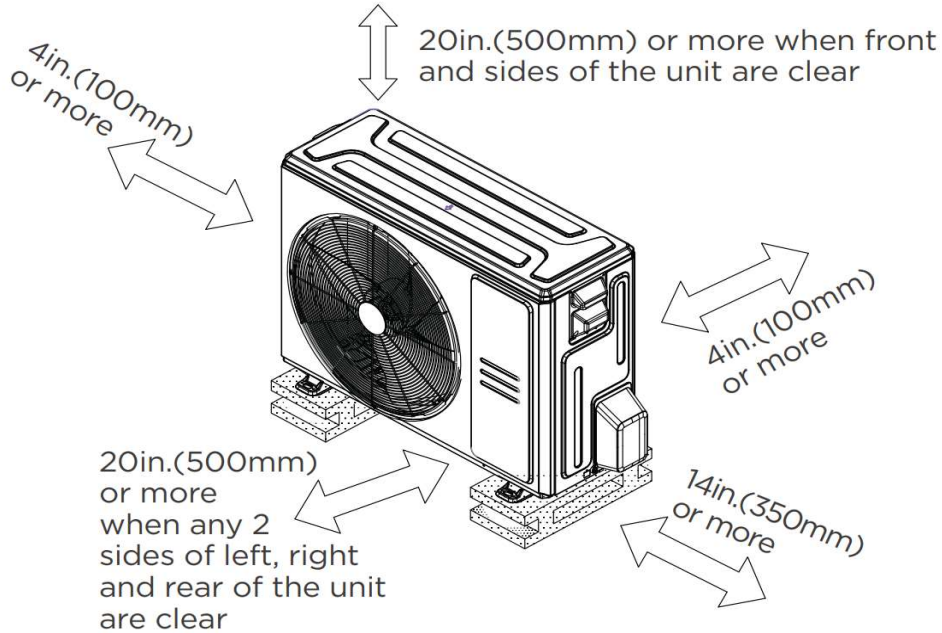


Outdoor Unit Dimension

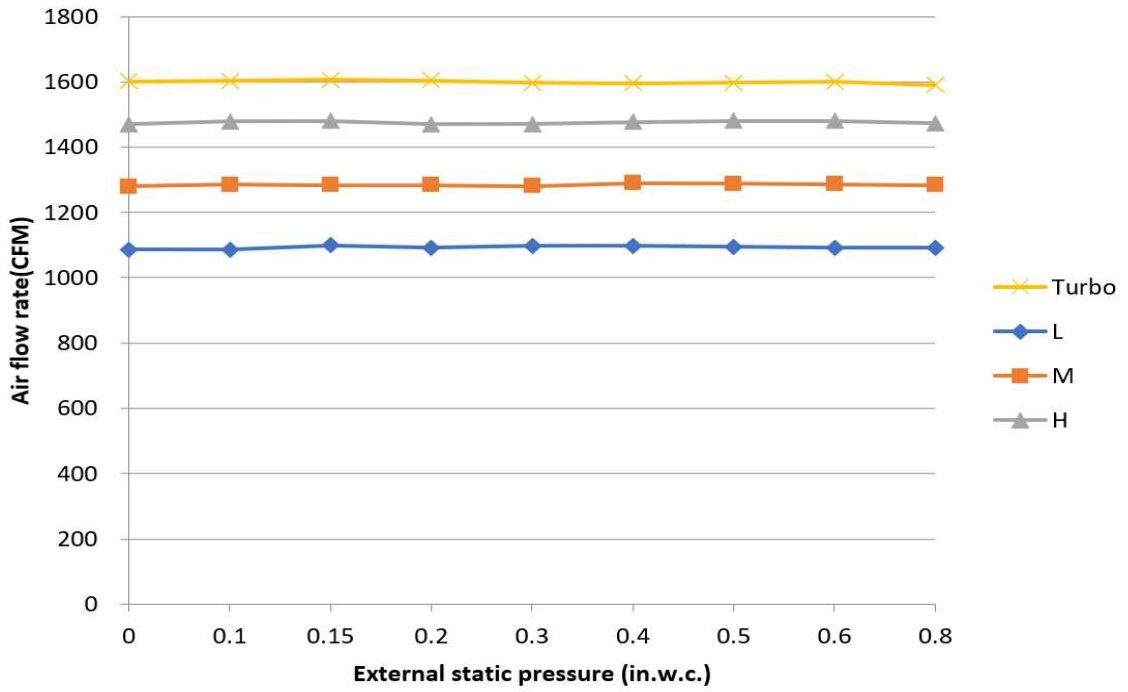
Unit:inch(mm)



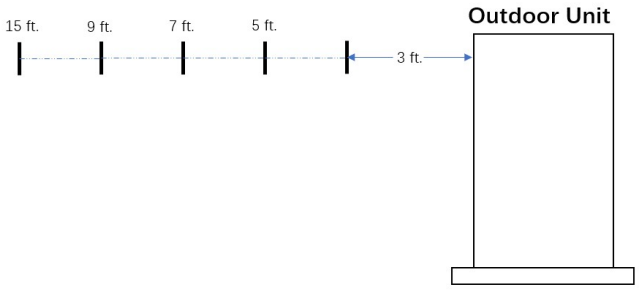
Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Outdoor Unit Sound Pressure Data



	Maximum Sound Pressure (dBA)				
Model	3'	5'	7'	9'	15'
MO1HE-H18B-2A	54.7	52.8	51.5	50.6	48.7
MO1HE-H24B-2A	55.9	54.0	52.7	51.8	49.9
MO1HE-H30B-2A	59.9	58.0	56.7	55.8	53.9
MO1HE-H36B-2A	60.2	58.3	57.0	56.1	54.2
MO1SE-H36B-2A	59.3	57.5	56.3	55.4	53.5
MO1HE-H42B-2A	60.9	59.0	57.7	56.8	54.9
MO1HE-H48B-2A	60.9	59.0	57.7	56.8	54.9
MO1SE-H48B-2A	62.1	60.2	58.9	58.0	56.1
MO1HE-H60B-2A	62.1	60.2	58.9	58.0	56.1

Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- The IDU supports 115/230V voltage compatibility
- Aluminum Coil
- Constant Air Flow system: Up to 0.8 In.W.C.
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Wireless remote controller RG10 (Built-In)
  - Two-way communication programmable wired controller with built-in Wi-Fi:120N(X6W)
  - Midea Smart Thermostat
  - Third-Party 24V Thermostat
- Adaptive Control System
- 100% heating output down to -4°F*
- Standard graphene fins, a standard feature of the outdoor unit, deliver superior corrosion resistance
- The outdoor unit comes standard with chassis and crankshaft electric heating
- Built-in Refrigerant Detection Sensor

* When MAUHE-H36B-2A is paired with MO1SE-H36B-2A, its rated heating capacity at -4°F is 100%