

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: EVOX Multi-Position Air Handler Advanced Heat Series
Model Number: MAUHE-H24B-2A/MO1BE-H24B-2A

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)	824 / 759 / 694 / 630 / 630
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	44 / 44 / 42 / 28 / 28
Dimension (W×D×H)	inch 17-1/2 x 21 x 45
	mm 445 x 534 x 1,143
Package (W×D×H)	inch 26-5/8 x 20-7/8 x 48-5/8
	mm 675 x 530 x 1,235
Net/Gross Weight	lbs 106 /127
	kg 47.9 / 57.8

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY
Compressor Model	KTM240D46UKT2
Refrigerant	R454B
Refrigerant Oil Charge(mL)	620
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1,766
Dimension (W×D×H)	inch 35 x 13-1/2 x 26-1/2
	mm 890 x 342 x 673
Package (W×D×H)	inch 39-1/8 x 15-5/8 x 29-1/8
	mm 995 x 398 x 740
Net/Gross Weight	lbs 102 /109
	kg 46.4 / 49.5

EFFICIENCY

Cooling		Heating	
SEER2	18.1	HSPF2-4	9.7
EER2	11.0	COP	3.17

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24,000
Min/Max Capacity	7,200 ~ 28,000
Moisture Removal(L/h)	2.38
Standard Operating Range(°F/°C)	-13~122(-25 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

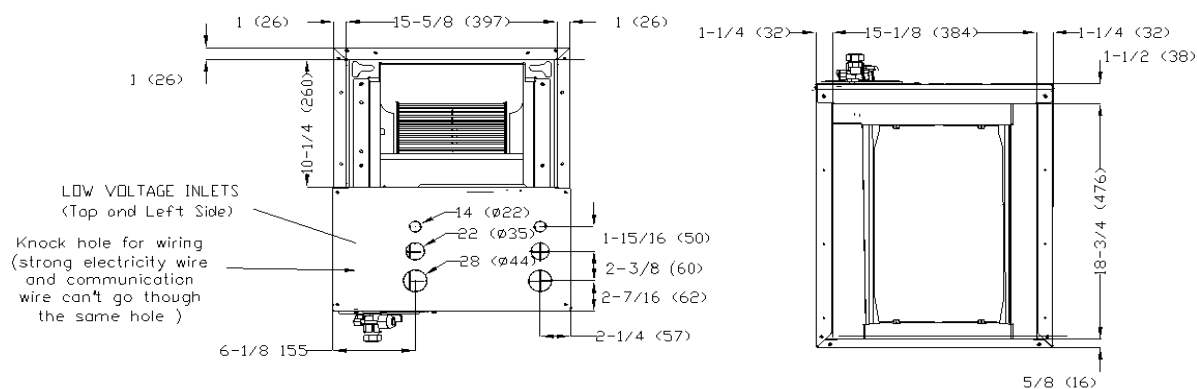
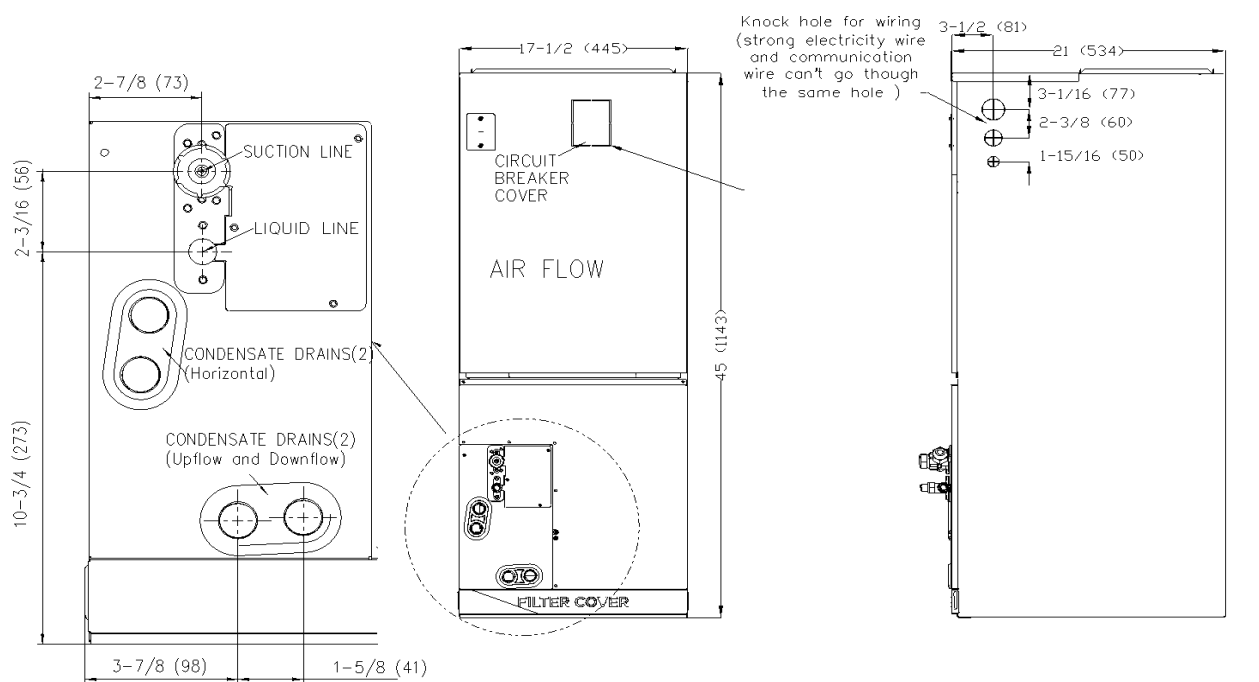
Heating (Btu/hr)	
1. @ 47°F Rated	26,000
2. @ 47°F Min/Max Capacity	7,300 ~ 30,600
3. @ 17°F Rated	20,000
4. @ 5°F Rated: Capacity / COP	21,600/1.87
5. @ 5°F Max: Capacity	21,600
Standard Operating Range(°F/°C)	-13~75(-25 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F 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)	5.5/4.0
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	19.0
Outdoor MOP	20.0
Communication Wiring	AWG 20/2
Compressor RLA	14.0
Outdoor Fan Motor RLA	1.0
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	3.0
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	2,180 (530 ~ 2,870)
System Power Input @ Heating (W)	2,400 (440 ~ 2,730)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

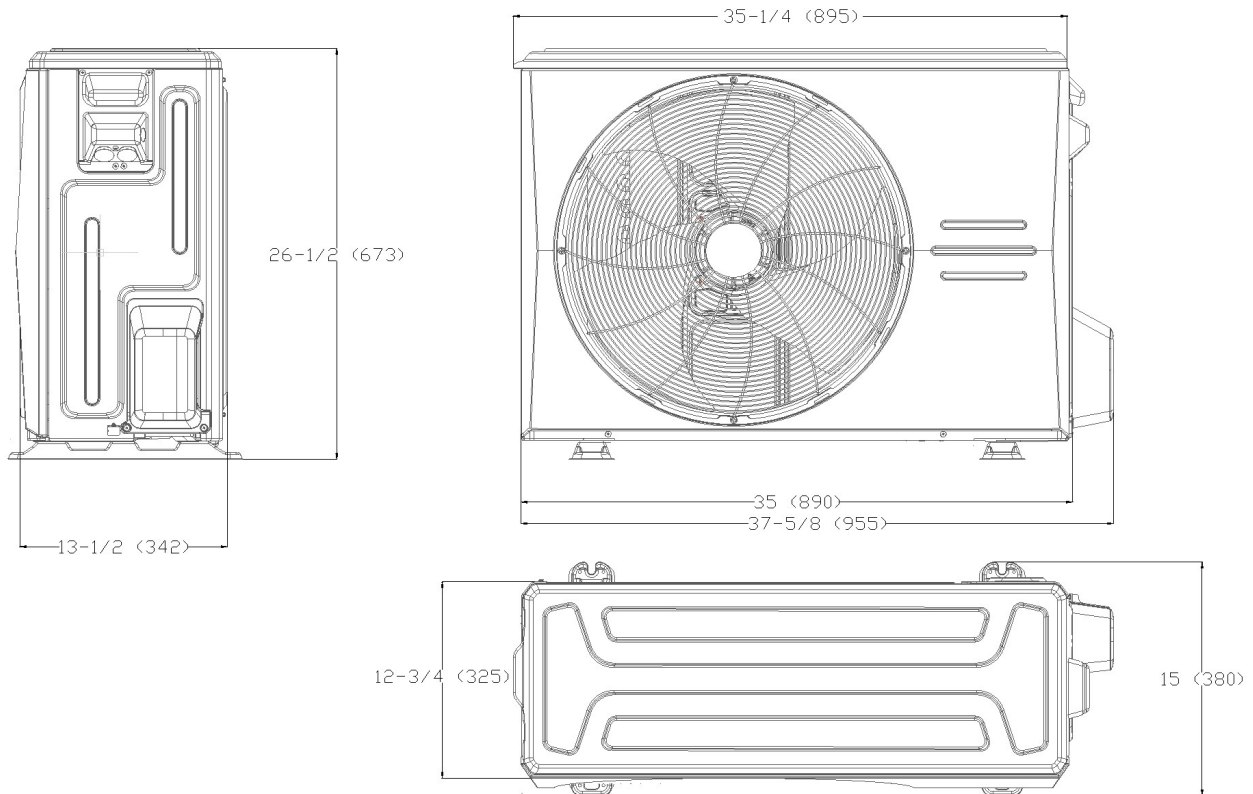
PIPING

Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52)
Gas Size	3/4" (19)
Max. Piping Length(ft/m)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	74 (2.1)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

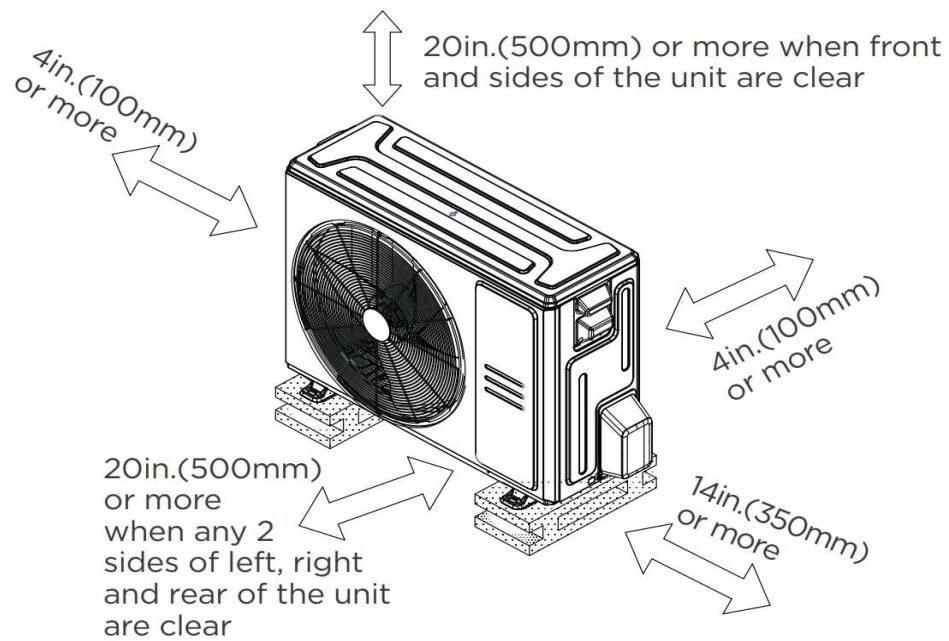


Outdoor Unit Dimension

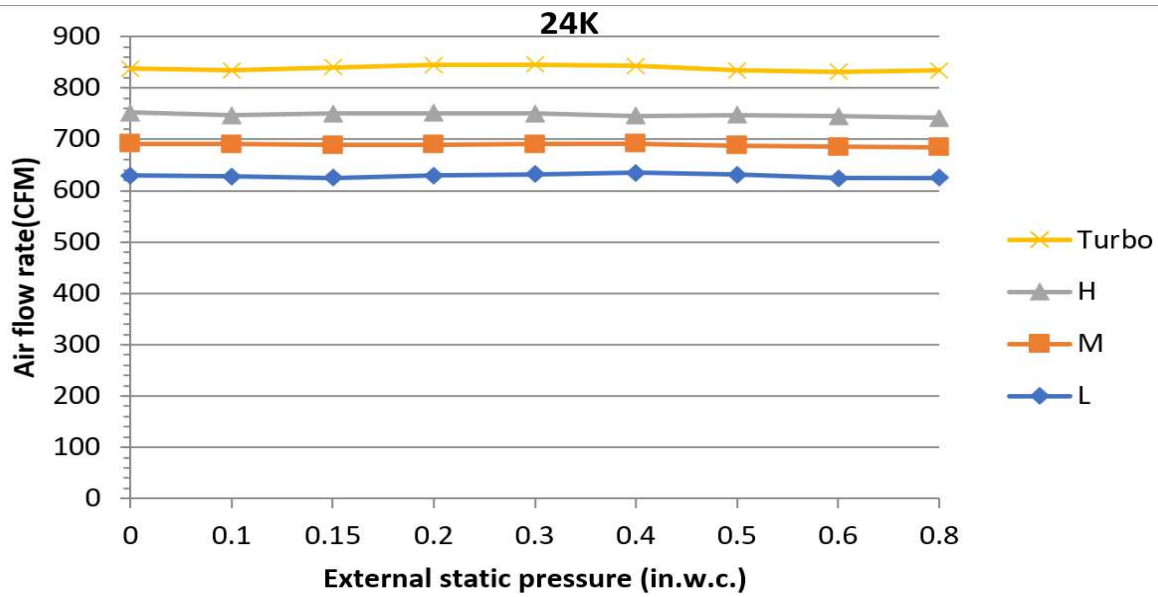
Unit: inch(mm)



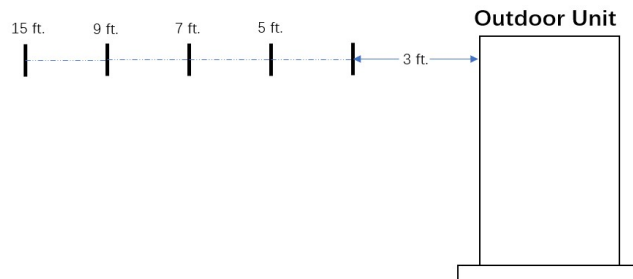
Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Outdoor Unit Sound Pressure Data



Model	Maximum Sound Pressure (dBA)				
	3'	5'	7'	9'	15'
MO1BE-H18B-2A	50.1	48.3	47.1	46.2	44.3
MO1BE-H24B-2A	55.9	54.0	52.7	51.8	49.9
MO1BE-H30B-2A	55.9	54.0	52.7	51.8	49.9
MO1BE-H36B-2A	59.2	57.3	56.0	55.1	53.2
MO1BE-H48B-2A	62.1	60.2	58.9	58.0	56.1
MO1BE-H60B-2A	62.0	60.1	58.8	57.9	56.0

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