

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: MAUHE-H48B-2A/MO1BE-H48B-2A

Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1601 / 1471 / 1283 / 1095 / 1095
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	53 / 53 / 50 / 44 / 44
Dimension (W×D×H)	inch 24-1/2 x 21 x 53
	mm 622 x 534 x 1346
Package (W×D×H)	inch 26-3/4 x 27-15/16 x 56-1/2
	mm 680 x 710 x 1435
Net/Gross Weight	lbs 163 / 191
	kg 73.9 / 86.6

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	MTH550UKPC8FU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,800
Refrigerant Oil	HAF68D1C
Outdoor Air Flow (Max) (CFM)	3,037
Outdoor Noise Level (dBA)	65
Dimension (W×D×H)	inch 38-9/16 x 16-3/8 x 38-3/8
	mm 980 x 415 x 975
Package (W×D×H)	inch 45-1/16 x 19-11/16 x 42-1/2
	mm 1145 x 500 x 1080
Net/Gross Weight	lbs 193 / 224
	kg 87.5 / 101.7

EFFICIENCY

Cooling		Heating	
SEER2	16.0	HSPF2-4	8.5
EER2	10.0	COP	3.45

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	16,600 ~ 49,900
Moisture Removal(L/h)	5.29
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

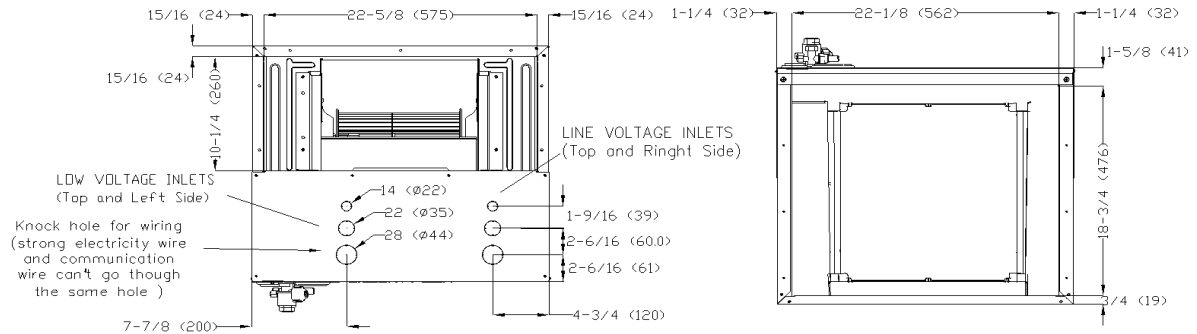
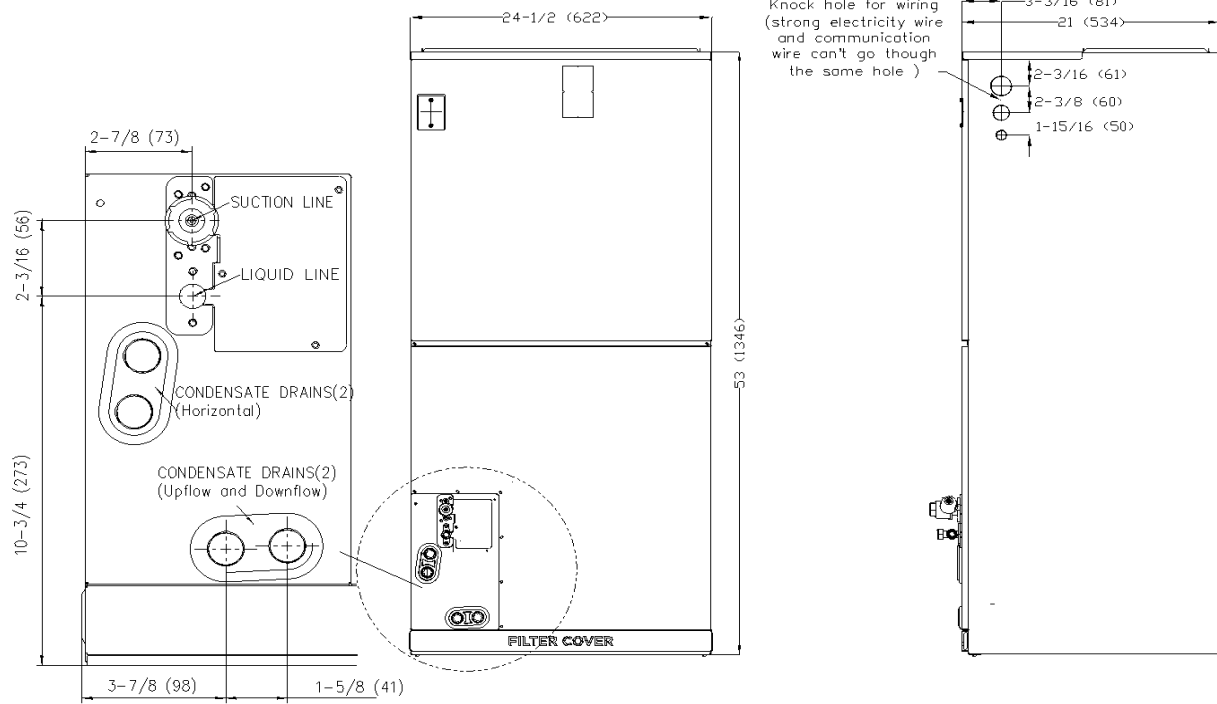
Heating (Btu/hr)	
1. @ 47°F Rated	48,000
2. @ 47°F Min/Max Capacity	15,300 ~ 49,500
3. @ 17°F Rated	32,400
4. @ 5°F Rated: Capacity / COP	38,000/1.85
5. @ 5°F Max: Capacity	38,000
Standard Operating Range(*F/*C)	-13~75 (-25 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F 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)	14.5/11.0
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	36.0
Outdoor MOP	40.0
Communication Wiring	AWG 20/2
Compressor RLA	27.0
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)	4,800 (1,400 ~ 5,350)
System Power Input @ Heating (W)	4,085 (1025 ~ 4,650)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

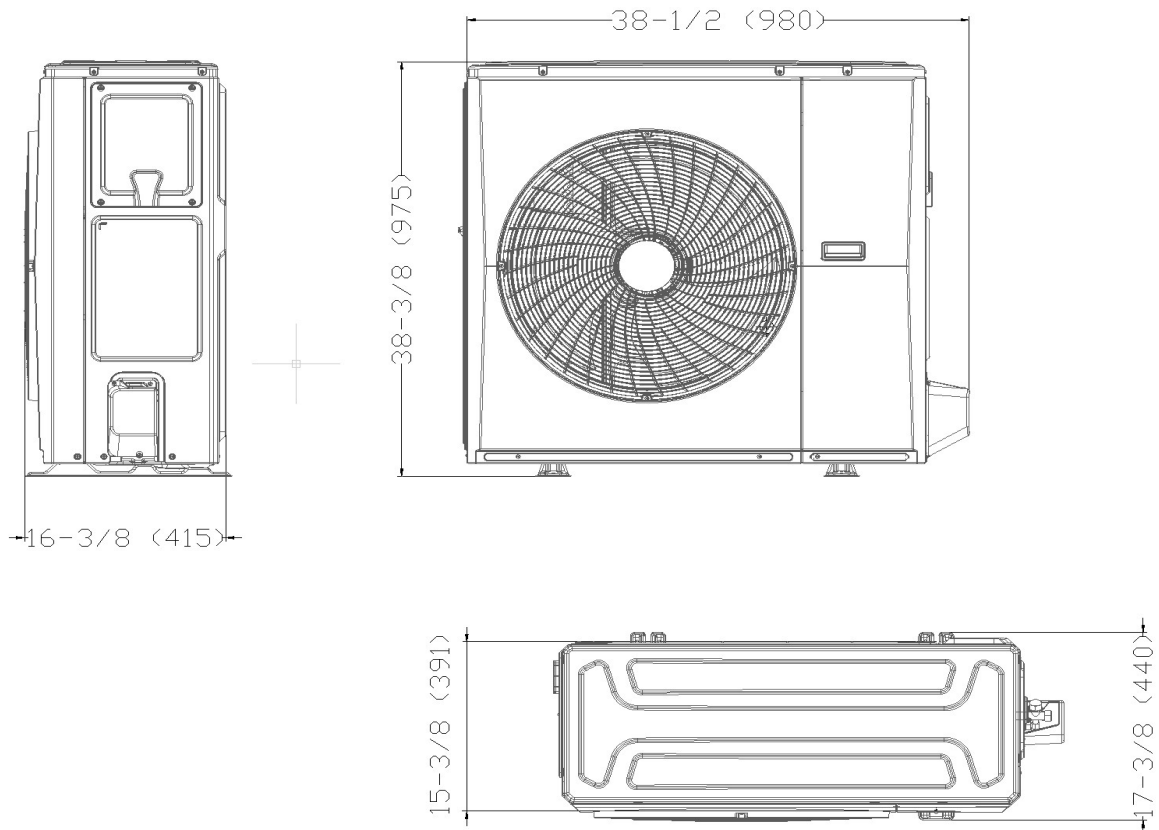
PIPING

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 (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

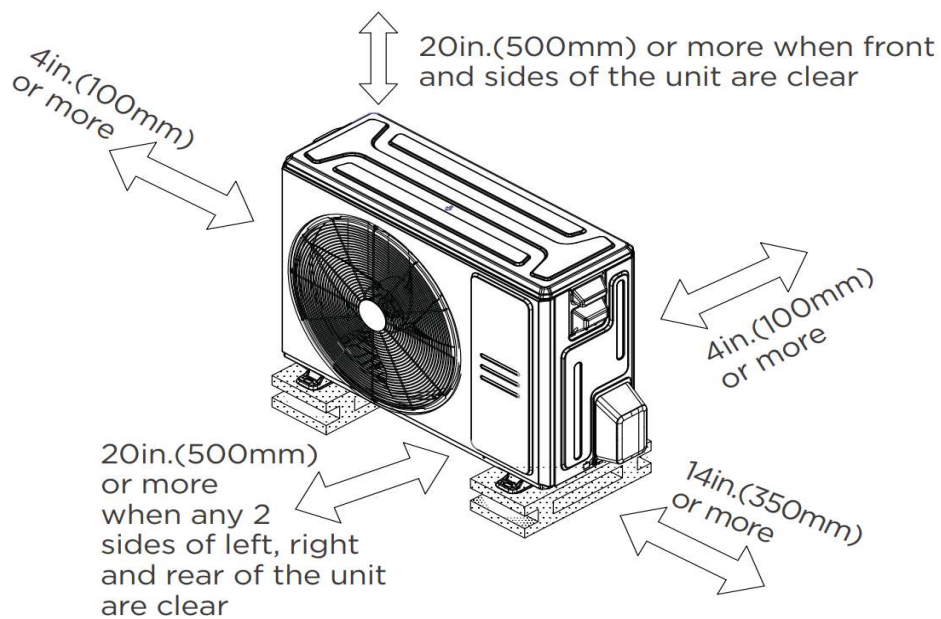


Outdoor Unit Dimension

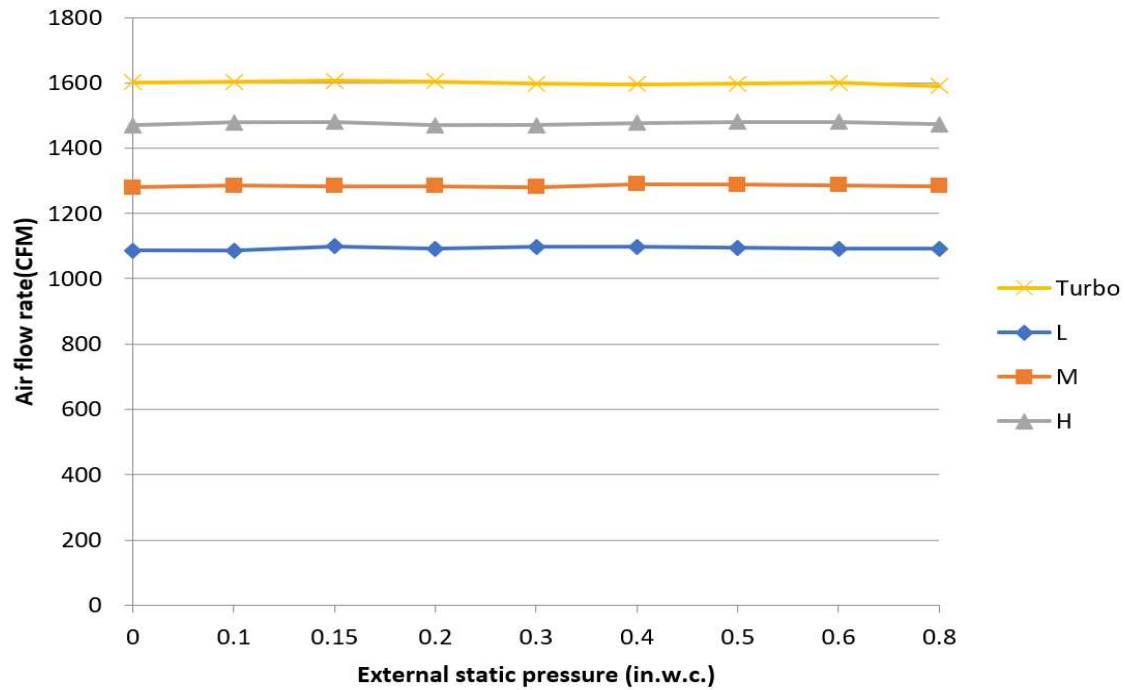
Unit:inch(mm)



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 18.8 SEER2, 11 EER2, 9.7 HSPF2
- Chassis heater and crankcase heater equipped as standard