

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 (WxDxH)	inch	21 x 24-1/2 x 53
	mm	534 x 622 x 1346
Package (WxDxH)	inch	27-15/16 x 26-3/4 x 56-1/2
	mm	710 x 680 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 (WxDxH)	inch	38-9/16 x 16-3/8 x 38-3/8
	mm	980 x 415 x 975
Package (WxDxH)	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

ELECTRICAL

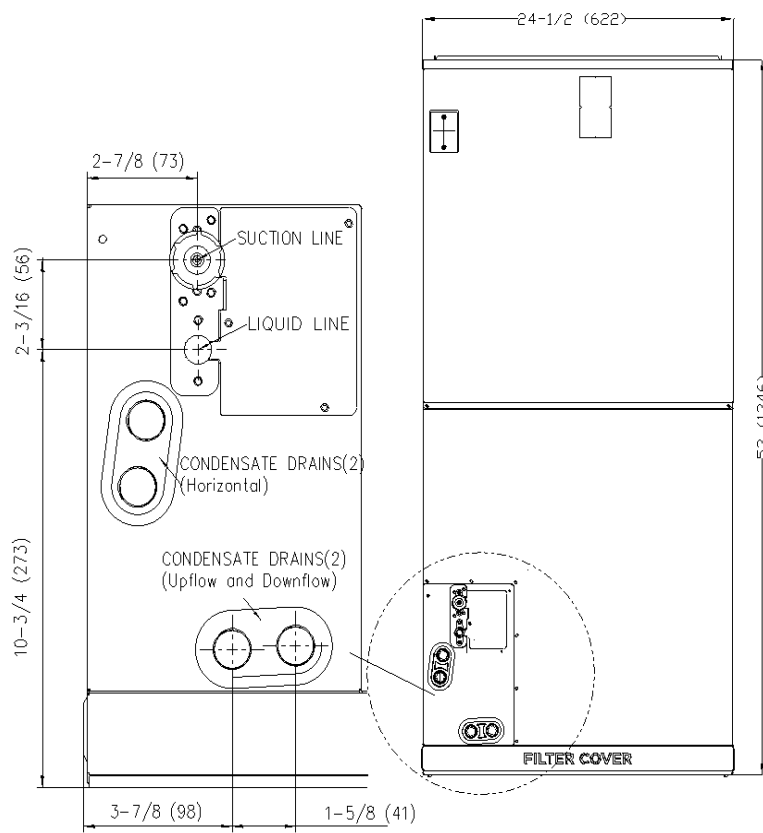
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/11.0
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	36.0
Outdoor MOP	40.0
Communication Wiring	AWG 20/2
Compressor RLA	27.0
Outdoor Fan Motor RLA	2.0
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	7.8
Indoor Fan 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)

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	Indoor: 70°F DB/60°F WB
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB

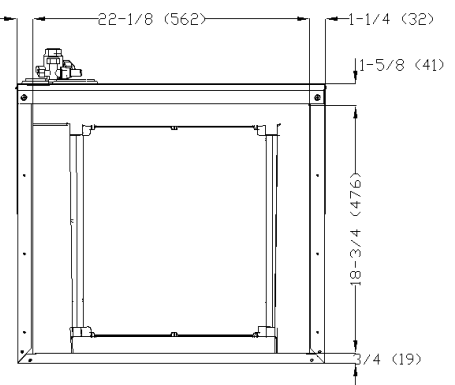
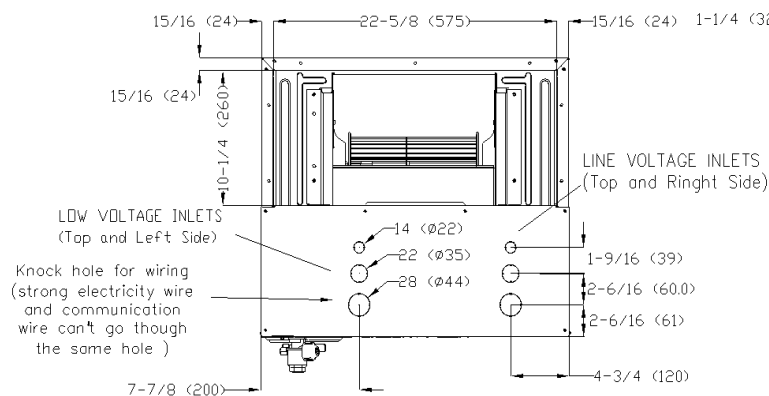
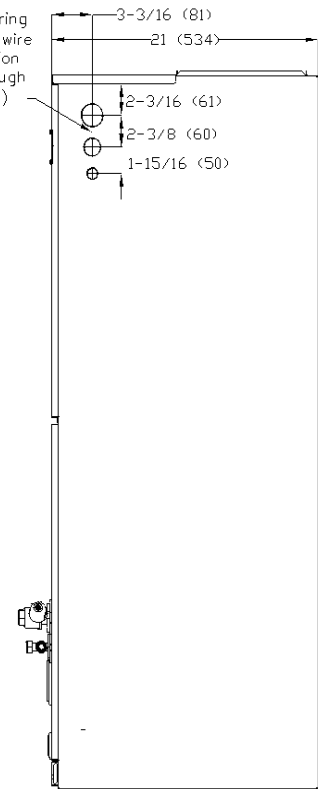
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	134 (3.8)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

Indoor Unit Dimension

Unit:inch(mm)

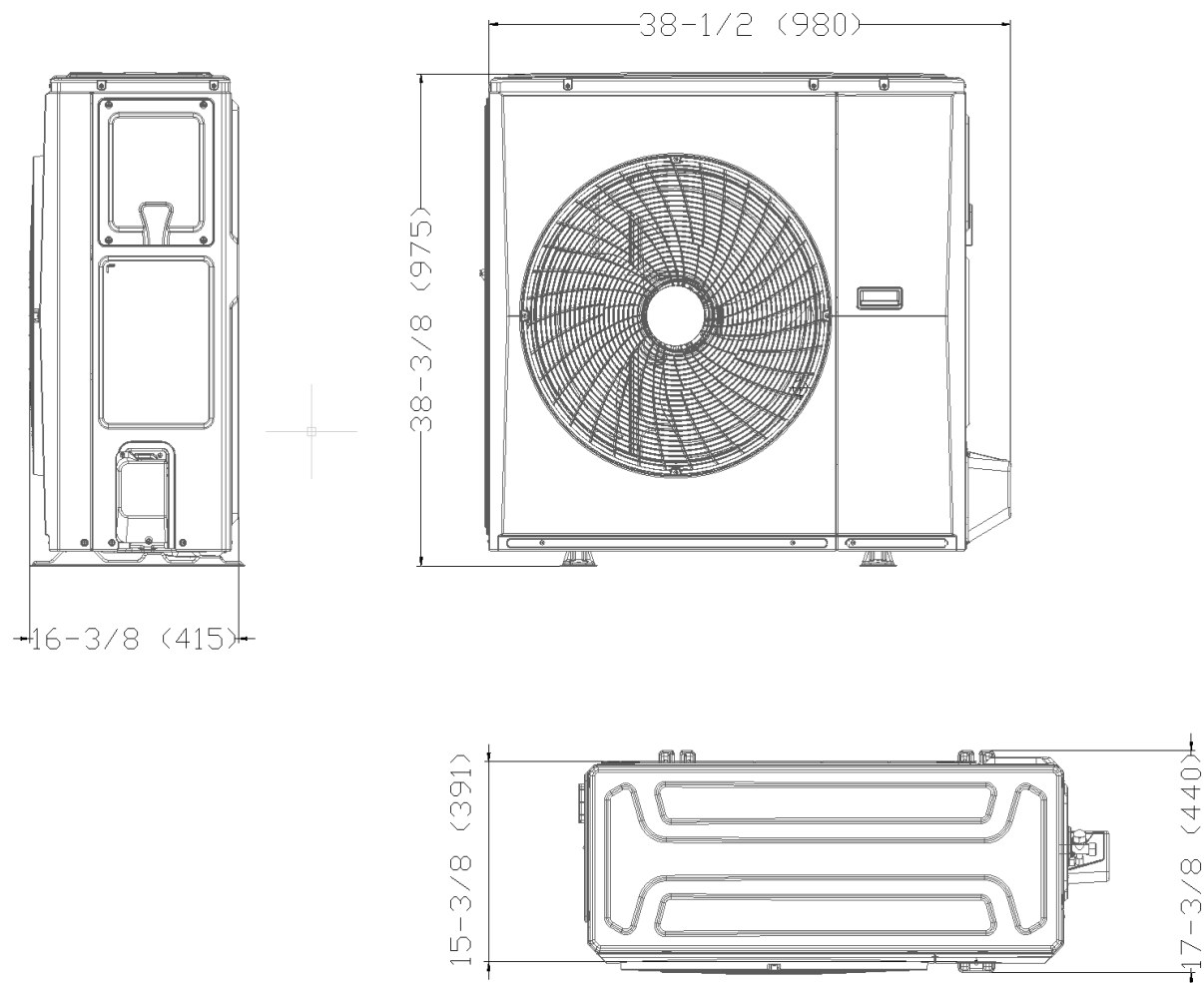


Knock hole for wiring
(strong electricity wire
and communication
wire can't go though
the same hole)

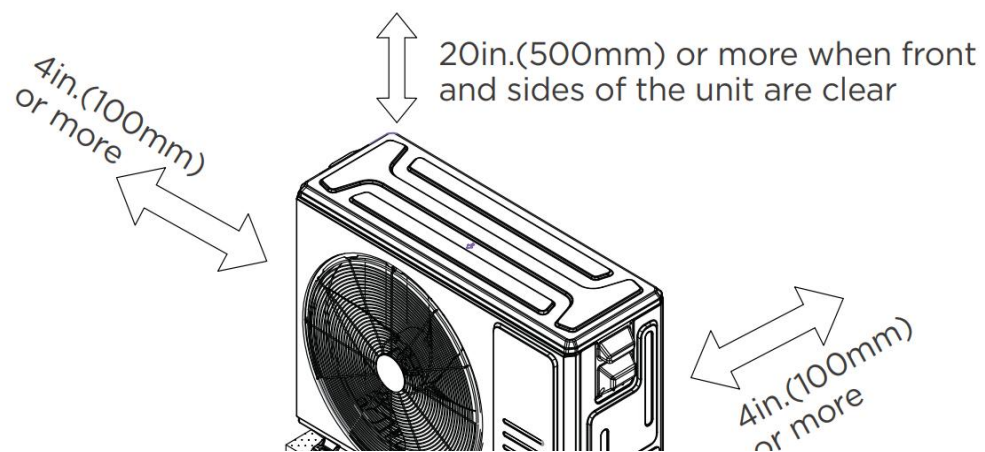


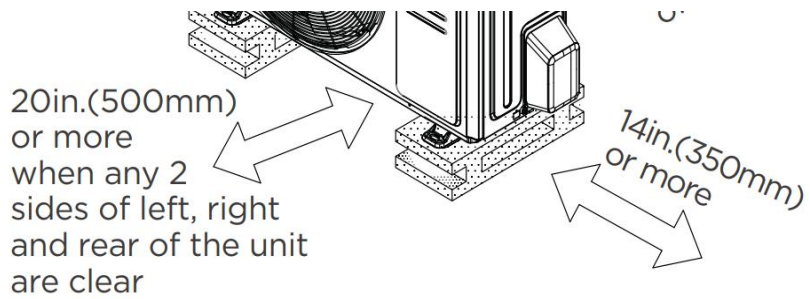
Outdoor Unit Dimension

Unit:inch(mm)

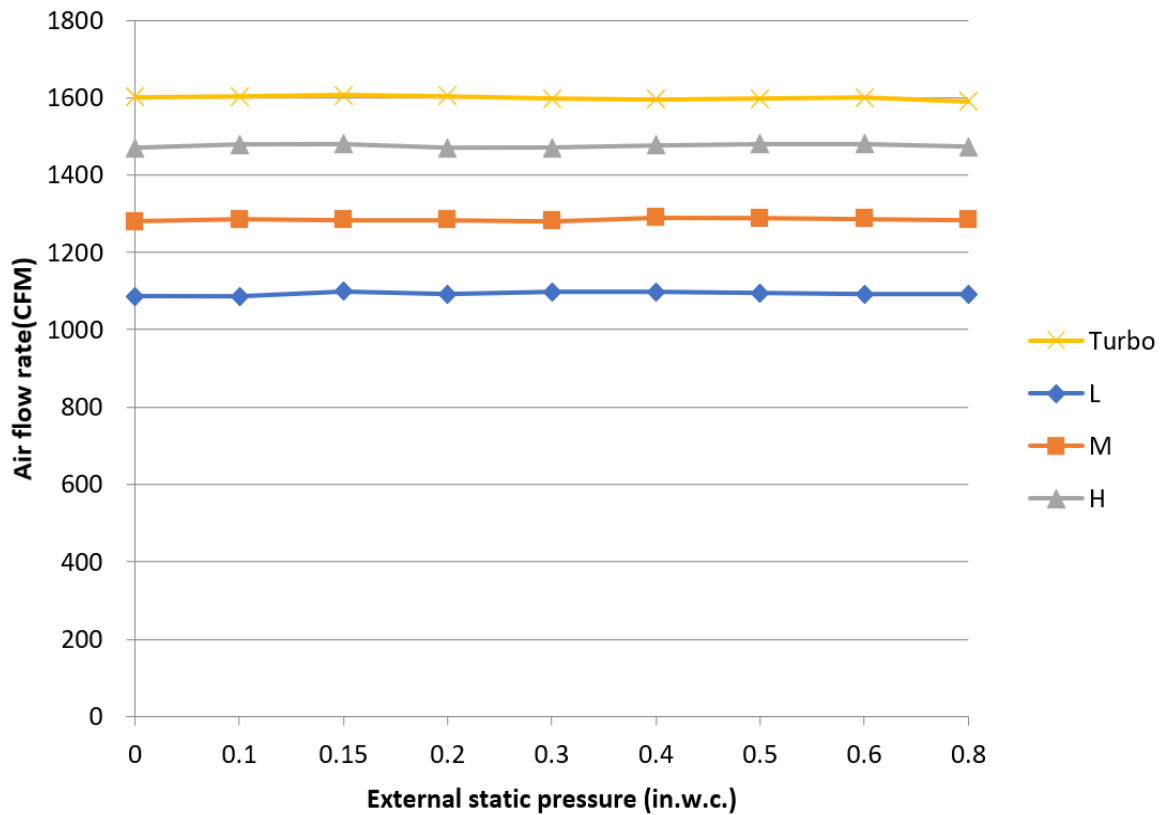


Installation Instruction For Outdoor Unit





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