

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAUHE-H36B-2A/MO1SE-H36B-2A

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

ESP(in.W.G)	0-0.8	
Indoor Air Flow (Turbo/H/ML/SI) (CFM)	1189 / 1083 / 971 / 865 / 865	
Indoor Noise Level (Turbo/H/ML/SI) (dBA)	49 / 48 / 45.5 / 25.5 / 25.5	
Dimension (WxDxH)	inch	21 x 21 x 49
	mm	534 x 534 x 1245
Package (WxDxH)	inch	26-9/16 x 24-7/16 x 52-9/16
	mm	675 x 620 x 1335
Net/Gross Weight	lbs	129 / 154
	kg	58.7 / 69.8

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY	
Compressor Model	EKPQ420D1UMUA	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	1,460	
Refrigerant Oil	VG75	
Outdoor Air Flow (Max) (CFM)	3,002	
Outdoor Noise Level (dBA)	62.5	
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	204 / 235
	kg	92.6 / 106.7

EFFICIENCY

Cooling		Heating	
SEER2	17.4	HSPF2-4	10.2
EER2	11.7	COP	3.60

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	36,000
Min/Max Capacity	9,700 ~ 42,000
Moisture Removal(L/h)	3.4
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	37,000
2. @ 47°F Min/Max Capacity	1,1000 ~ 48,000
3. @ 17°F Rated	31,800
4. @ 5°F Rated: Capacity / COP	39,000/1.9
5. @ 5°F Max: Capacity	39,000
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

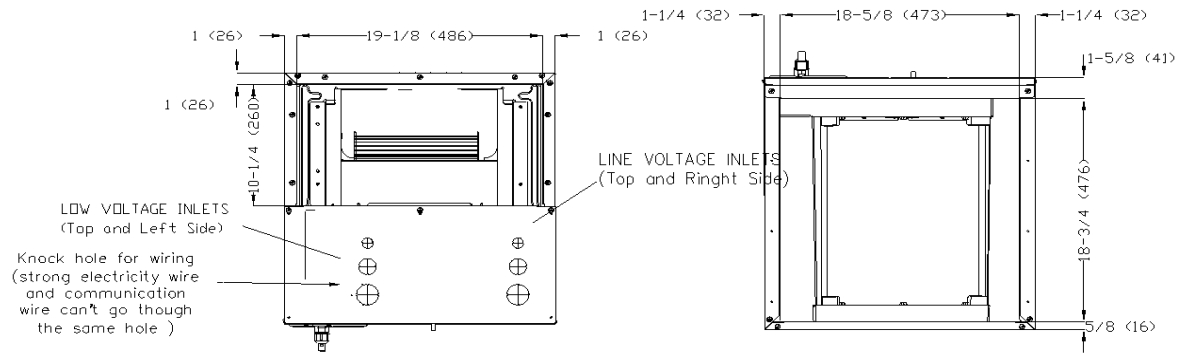
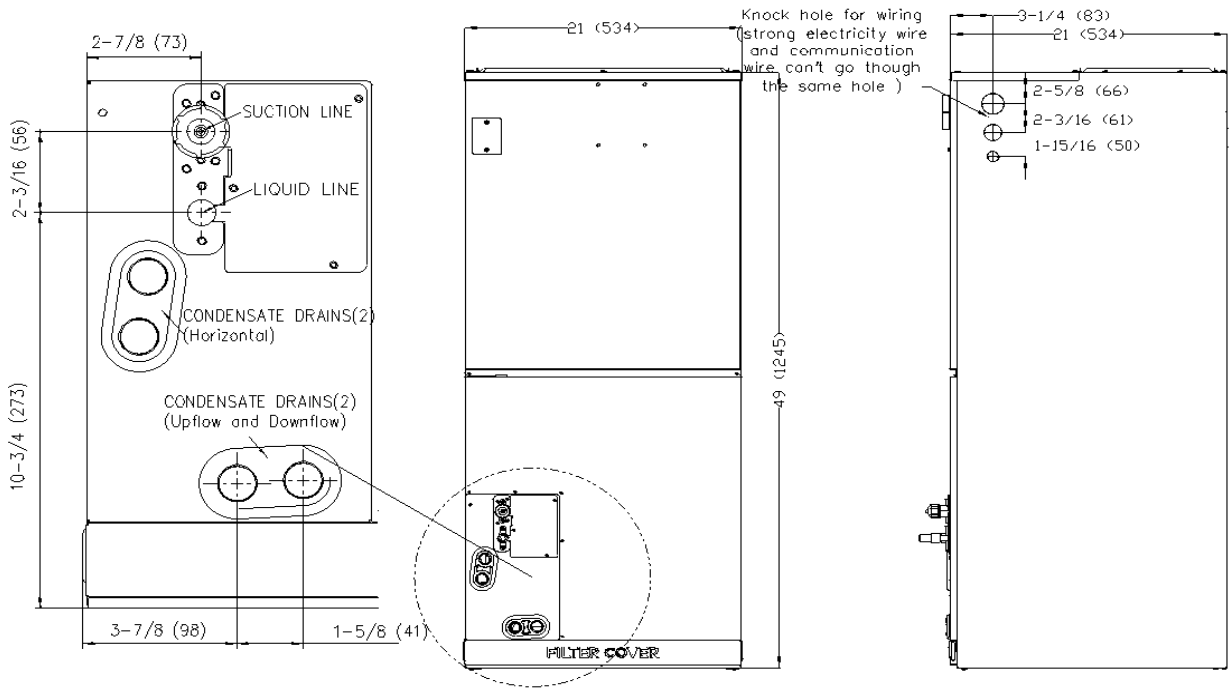
Indoor Power Supply	115/208/230V,60Hz,1Ph	
Indoor MCA 115V/(208/230V)	8.0/6.0	
Indoor MOP	15.0	
Outdoor Power Supply	208/230V,60Hz,1Ph	
Outdoor MCA	29.0	
Outdoor MOP	30.0	
Communication Wiring	AWG 20/2	
Compressor RLA	20.5	
Outdoor Fan Motor RLA	2.4	
Outdoor Fan Motor W	250	
Indoor Fan Motor RLA	4.5	
Indoor Fan Motor W	375	
System Power Input @ Cooling (W)	3,076(820 ~ 4,440)	
System Power Input @ Heating (W)	3,012(665 ~ 4,370)	
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)	127 (3.6)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

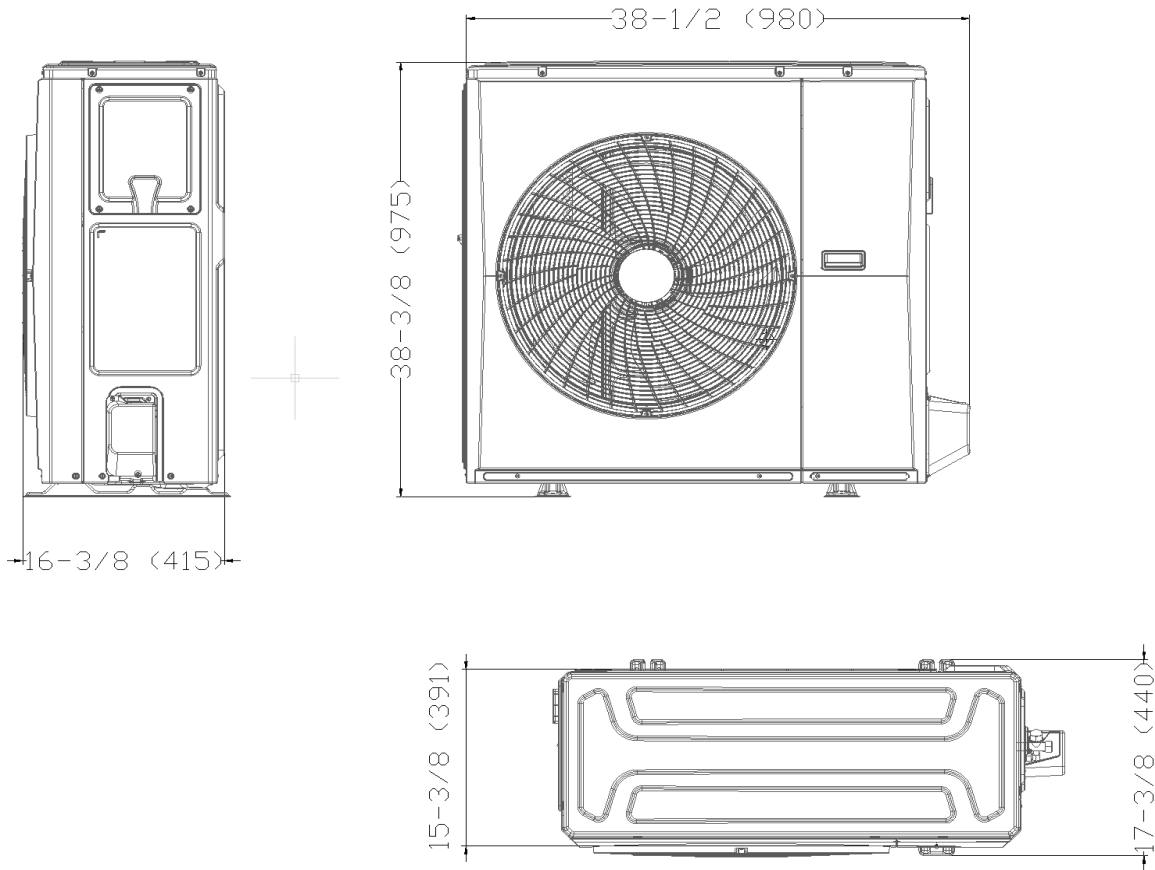
Indoor Unit Dimension

Unit:inch(mm)

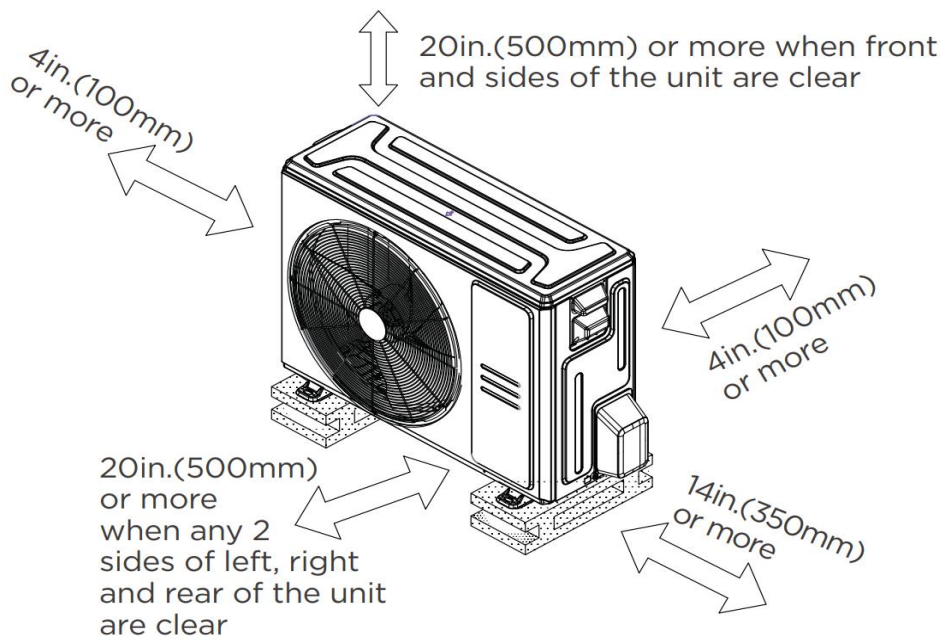


Outdoor Unit Dimension

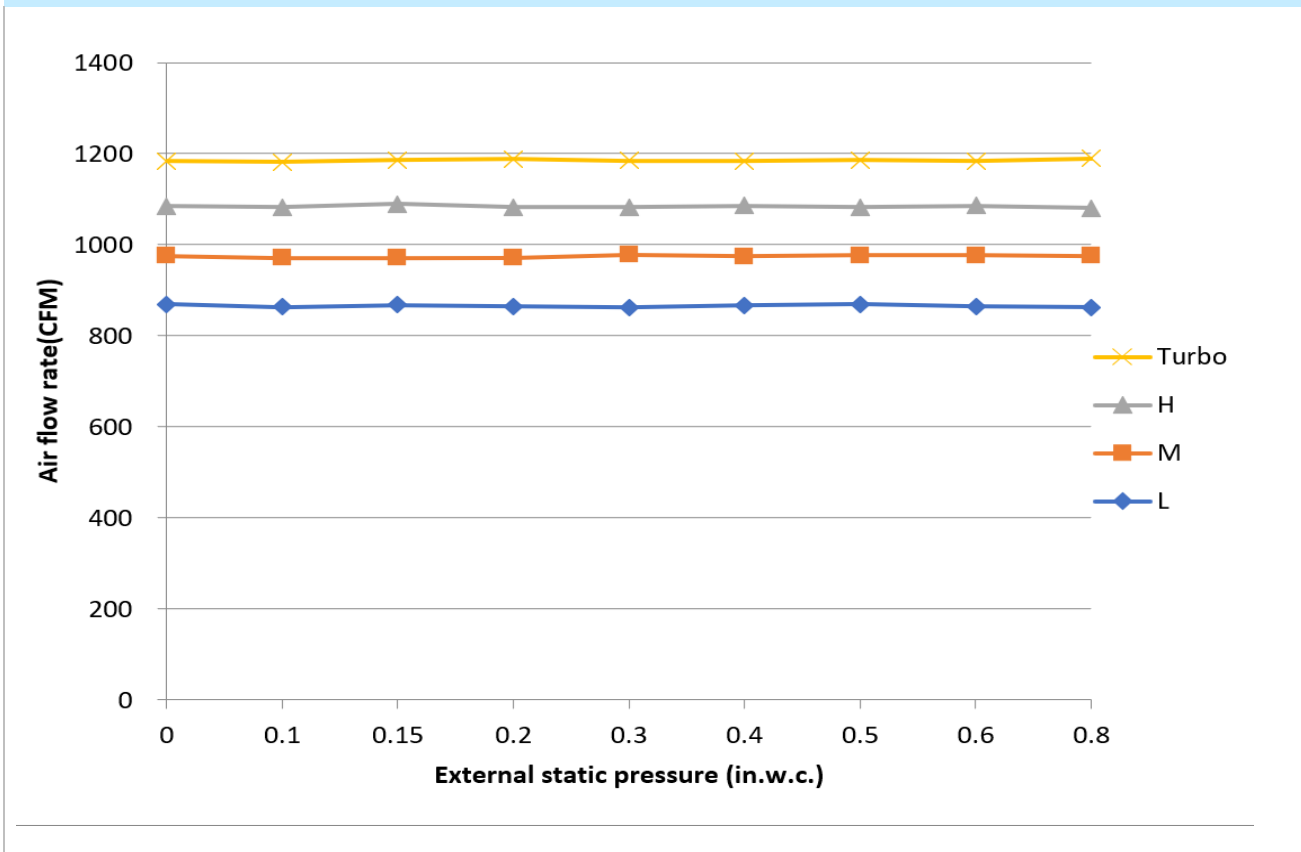
Unit:inch(mm)



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



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 19 SEER2, 12.5 EER2, 10.3 HSPF2
- 100% heat output at -4F*
- Chassis heater and crankcase heater equipped as standard

* For 36K model, rated cooling capacity/heating capacity at -4F=100%

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