

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: MAWHE-H18B-2A/MO1BE-H18B-2A

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

ESP(inWG)		0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		618 / 577 / 530 / 489 / 489
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		48 / 47 / 45 / 39 / 39
Dimension (WxDxH)	inch	20-1/4 x 15-3/4 x 36-1/2
	mm	515 x 399 x 928
Package (WxDxH)	inch	22-7/8 x 19-1/2 x 42-7/8
	mm	580 x 495 x 1090
Net/Gross Weight	lbs	111 / 91
	kg	50.5 / 41.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,451
Outdoor Noise Level (dBA)		55.5
Dimension (WxDxH)	inch	31-3/4 x 13 x 21-3/4
	mm	805 x330 x554
Package (WxDxH)	inch	36 x 14-9/16 x 24-3/16
	mm	915 x 370 x 615
Net/Gross Weight	lbs	77 / 84
	kg	35 / 38

EFFICIENCY

Cooling		Heating	
SEER2	18.5	HSPF2-4	9.4
EER2	11.5	COP	3.55

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	5,900~20,600
Moisture Removal(L/h)	1.87
Standard Operating Range(*F/*C)	-22~122 (-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	18,000
2. @ 47°F Min/Max Capacity	3,900~19,600
3. @ 17°F Rated	12,600
4. @ 5°F Rated: Capacity / COP	11,400/2.1
5. @ 5°F Max: Capacity	11,400
Standard Operating Range(*F/*C)	-22~75 (-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

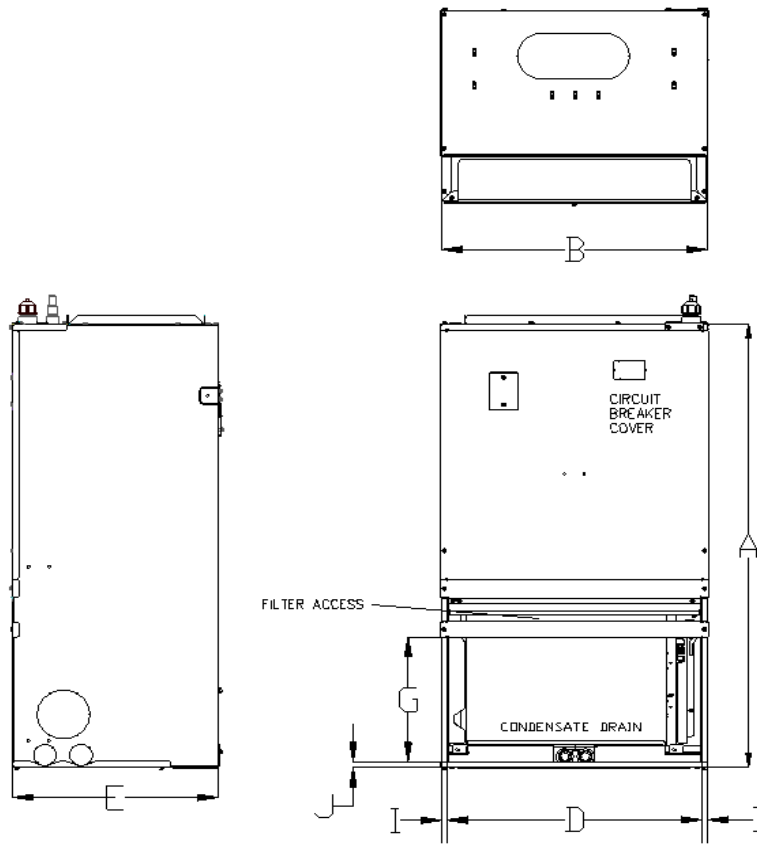
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	4
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	16.0
Outdoor MOP	20.0
Communication Wiring	AWG 20-2
Compressor RLA	10
Outdoor Fan Motor RLA	0.8
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1,565 (360 ~ 1,820)
System Power Input @ Heating (W)	1,485 (275 ~ 1,610)
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)	98 (30)
Max. Height Difference(ft/m)	66 (20)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	51 (1.45)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared*

*The gas valve of the outdoor unit is 5/8", 5/8" to 3/4" flare to flare connector is required for the installation.

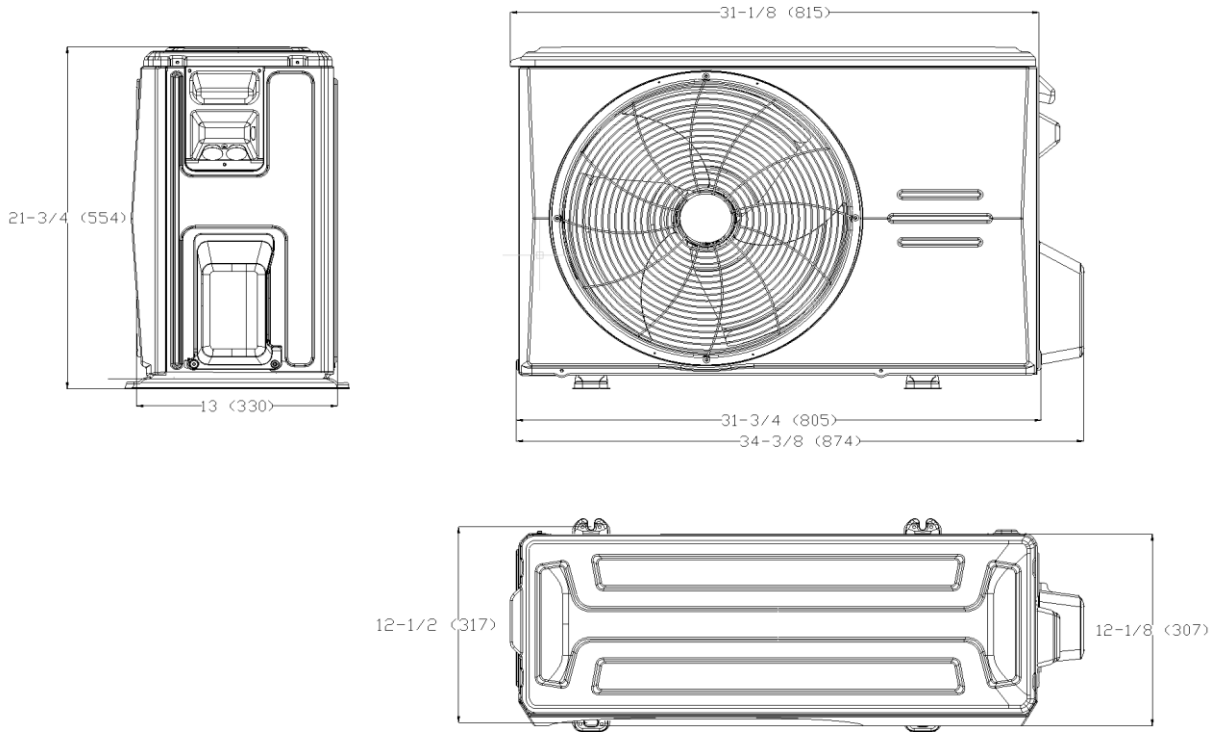
Indoor Unit Dimension



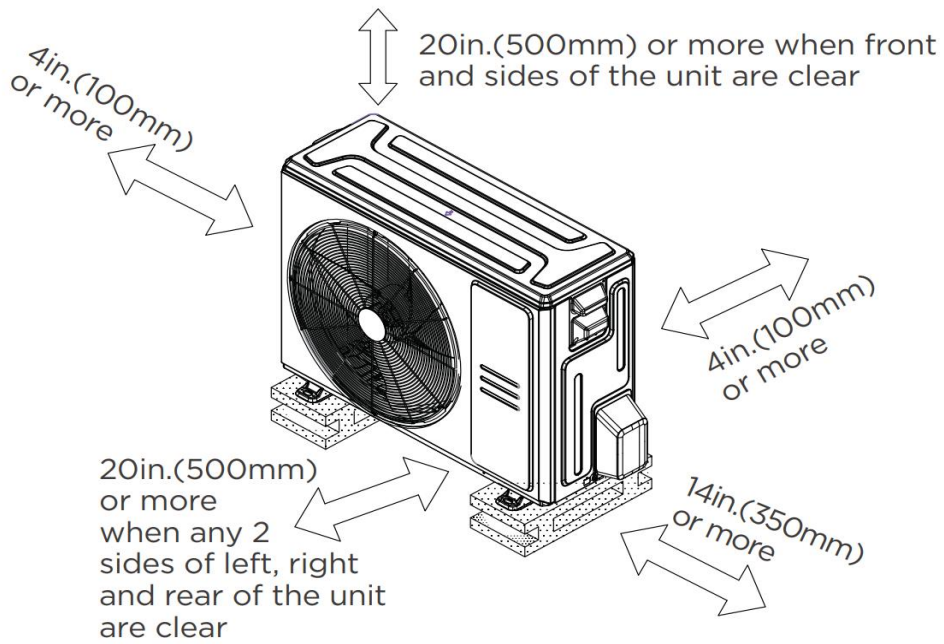
Dimensions		Model(Btu/h)	18K/24K		30K/36K	
			inch	mm	inch	mm
A	Model Height		36-1/2	928	40	1017
B	Model Width		20-1/4	515	22	559
C	Supply Air Opening Width		17-13/32	442	18-27/32	478.6
D	Return Air Opening Width		19-7/16	493.8	21-5/32	537.8
E	Model Depth		15-3/4	399	19	483
F	Supply Air Opening Depth		10-7/16	265.2	9-9/32	235.4
G	Return Air Opening Depth		10-9/32	261	13-2/32	332.5
H	Supply Air Opening Clearance		1-5/32	29.1	1-5/8	41
I	Return Air Opening Side Clearance		13/32	10.6	13/32	10.6
J	Return Air Opening Front Clearance		15/32	12	5/8	16

Outdoor Unit Dimension

Unit:inch(mm)

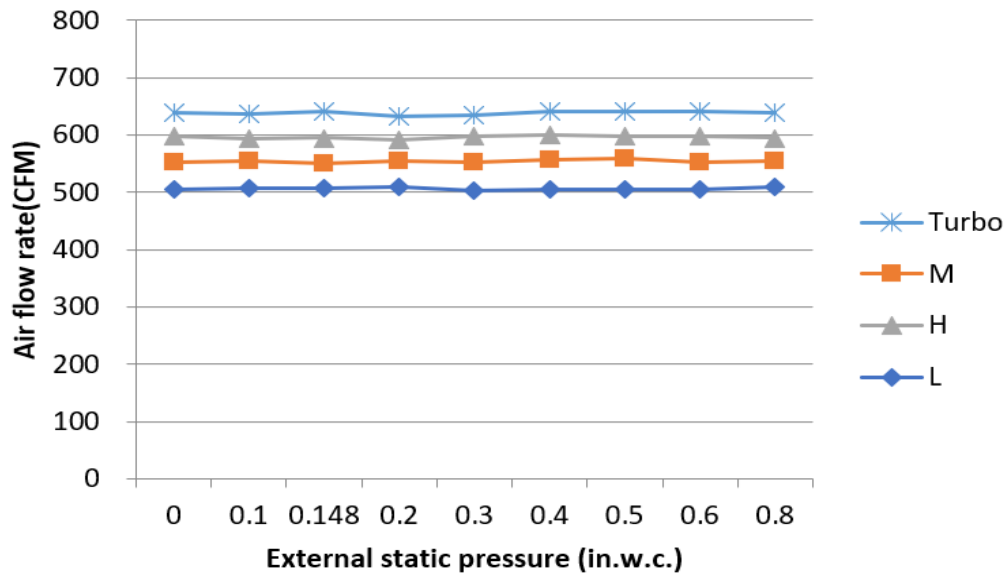


Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit

18K



Features

- Multi-position of return air: front(factory standard) or bottom
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 10kW
- 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
- High efficiency up to 18.5 SEER2, 11.5 EER2, 9.4 HSPF2
- Chassis heater and crankcase heater equipped as standard

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