

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat WMAHU Series
Model Number: MAWHE-H24B-2A/MO1HE-H24B-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 Noise Level (Turbo/H/M/L/Si) (dBA)		53 / 51 / 48 / 37.5 / 37.5
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	91 / 111
	kg	41.5 / 50.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,766
Outdoor Noise Level (dBA)		59
Dimension (WxDxH)	inch	35 x 13-1/2 x 26-1/2
	mm	890 x 342 x 673
Package (WxDxH)	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	17.5	HSPF2-4	10.5
EER2	10.8	COP	3.80

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24,000
Min/Max Capacity	10,100~27,500
Moisture Removal(L/h)	2.5
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	25,000
2. @ 47°F Min/Max Capacity	7,000~32,200
3. @ 17°F Rated	20,800
4. @ 5°F Rated: Capacity / COP	19,600/1.96
5. @ 5°F Max: Capacity	19,400
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	

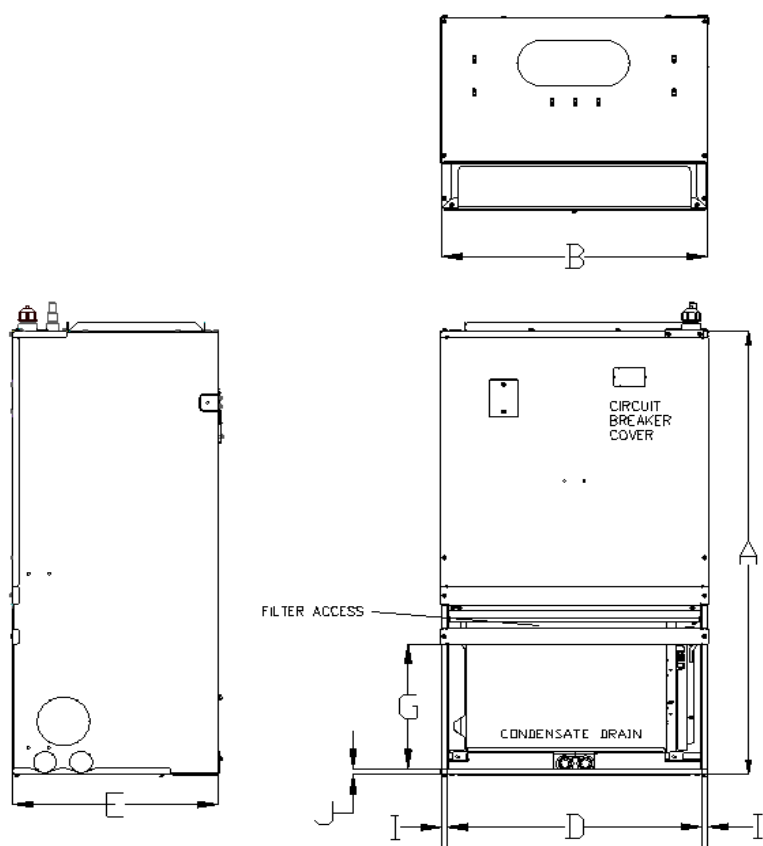
ELECTRICAL

Indoor Power Supply	115V/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	4
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
Outdoor Fan Motor RLA	1
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	2,222 (830 ~ 2,850)
System Power Input @ Heating (W)	1,980 (455 ~ 2,590)
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)	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

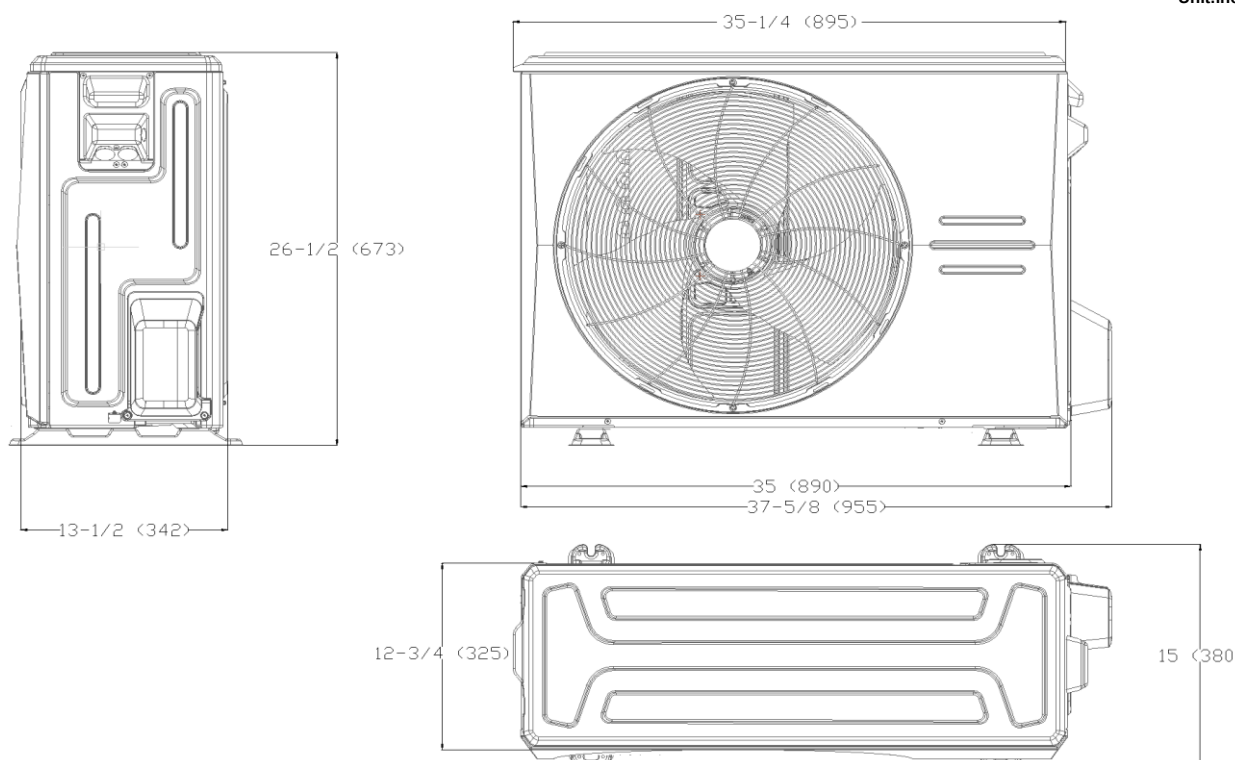
Indoor Unit Dimension



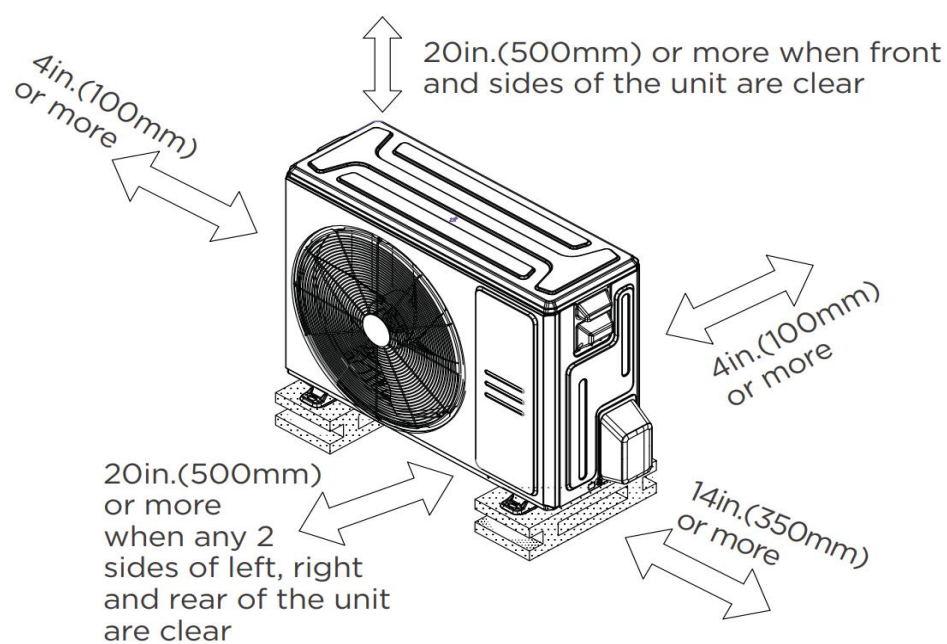
Dimensions		Model(Btu/h)		18K/24K		30K/36K	
				inch	mm	inch	mm
A	Model Height			36-1/2	928	40	1017
B	Model Width			20-1/4	515	22	559
C	Supply Air Opening Width			17-13/32	442	18-27/32	478.6
D	Return Air Opening Width			19-7/16	493.8	21-5/32	537.8
E	Model Depth			15-3/4	399	19	483
F	Supply Air Opening 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

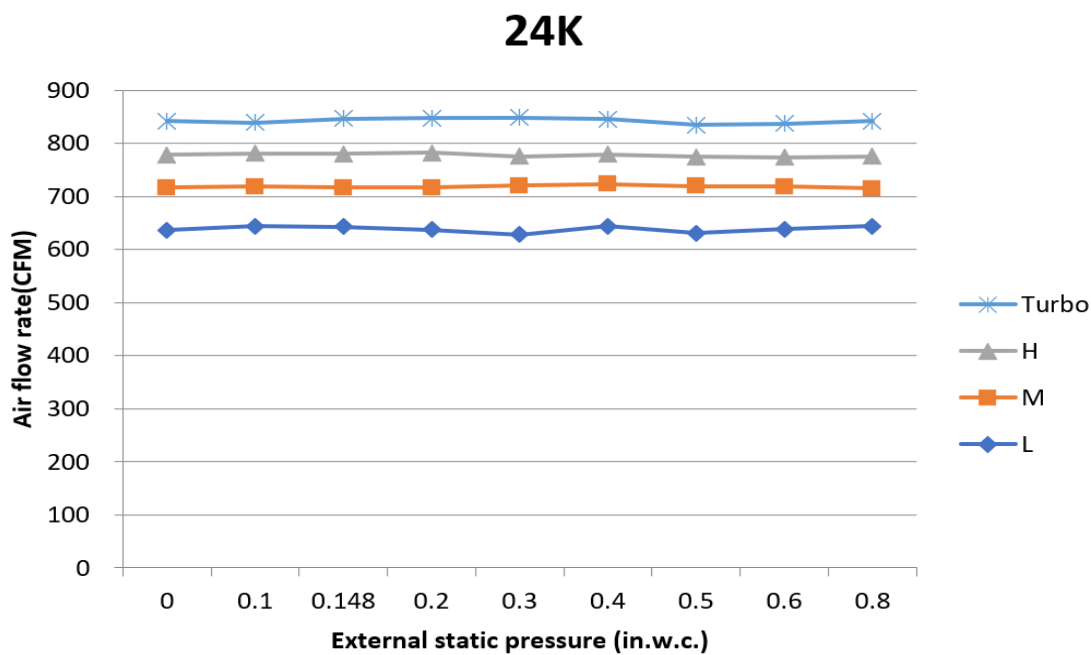
Unit:inch(mm)



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



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 19.3 SEER2, 12.1 EER2, 10.8 HSPF2
- Chassis heater and crankcase heater equipped as standard