R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAUSE-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(i	inWG)	0~1.0			
Indoor Air Flow (Tur	824 / 759 / 694 / 630 / 630				
Indoor Noise Level (door Noise Level (Turbo/H/M/L/Si) (dBA) 47.5 / 47.5 / 44 / 33 / 33				
Dimension	inch	21-1/2 x 14-1/2 x 53-7/8			
(W×D×H)	mm	546 × 368 × 1368			
Package	inch	31-1/8 x 17-1/2 x 58-1/4			
(W×D×H)	mm	790 × 445 × 1480			
Net/Gross Weight	lbs	123 / 155			
	kg	55.8 / 70.2			

	OUTDOOR SPE	ECIFICATION			
Compres	sor Type	ROTARY			
Compres	sor Model	KTM240D46UKT2			
Refriç	gerant	R454B			
Refrigerant O	il Charge(mL)	620			
Refrigerant Oil		VG74			
Outdoor Air Flow (Max) (CFM)		1,766			
Outdoor Noise Level (dBA)		59			
Dimension inch		35 x 13-1/2 x 26-1/2			
(W×D×H)	mm	890 × 342 × 673			
Package inch		39-1/8 x 15-5/8 x 29-1/8			
(W×D×H)	mm	995 × 398 × 740			
Not/Cross Weight	lbs	102 / 109			
Net/Gross Weight	kg	46.4 / 49.5			

EFFICIENCY					
Cooling		Heating			
SEER2	18.6	HSPF2-4 10.0			
EER2	12.0	COP	3.49		

PERFORMANCE of Cooling						
Cooling	g (Btu/hr)					
Rated Capacity	Capacity 24,000					
Min/Max Capacity	6,400 ~ 2,8700					
Moisture Removal(L/h) 2.23						
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)						

24,000

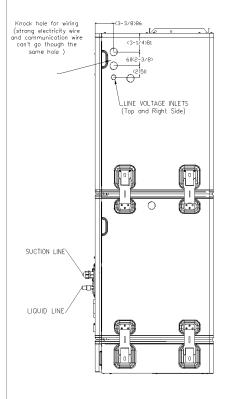
1. @ 47°F Rated

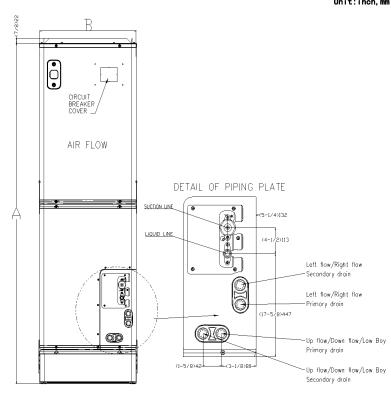
ELECTRICAL				
Indoor Power Supply	115/208/230V,60Hz,1Ph			
Indoor MCA 115V/(208/230V) 5.5/3.5				
Indoor MOP	15.0			
Outdoor Power Supply	208/230V,60Hz,1Ph			
Outdoor MCA	19.0			
Outdoor MOP	20.0			
Communication Wiring AWG 20/2				
Compressor RLA	14.0			
Outdoor Fan Motor RLA 1.0				
Outdoor Fan Motor W 80				
Indoor Fan Motor RLA	2.5			
Indoor Fan Motor W	600			
System Power Input @ Cooling (W)	2,150 (830 ~ 2,850)			
System Power Input @ Heating (W)	2,150 (405 ~ 2,450)			
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)			
RLA: Rated load amps (A)	W: Fan motor rated output (W)			

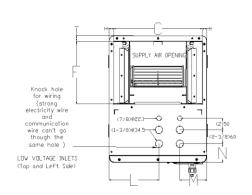
2. @ 47°F Min/Max Capacity	6,700 ~ 29,100
3. @ 17°F Rated	19,000
4. @ 5°F Rated: Capacity / COP	20,600 / 2.14
5. @ 5°F Max: Capacity	20,600
Standard Operating Range(°F/°C)	-22~75 (-30~24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor	Indoor: 70°F DB/60°F WB
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB

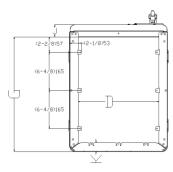
PIPING					
Throttle type(Indoor)	EXV				
Throttle type(Outdoor)	EXV				
Liquid Size	3/8" (9.52mm)				
Gas Size	3/4" (19mm)				
Max. Piping Length(ft/m)	164 (50)				
Max. Height Difference(ft/m)	82 (25)				
Max. Pre-charged Length(ft/m)	25 (7.5)				
Refrigerant Pre-charged Amount(oz/kg)	74 (2.1)				
dditional Charge of Refrigerant((oz/ft)/(g/m	0.7 (65)				
Connection Method	Flared				





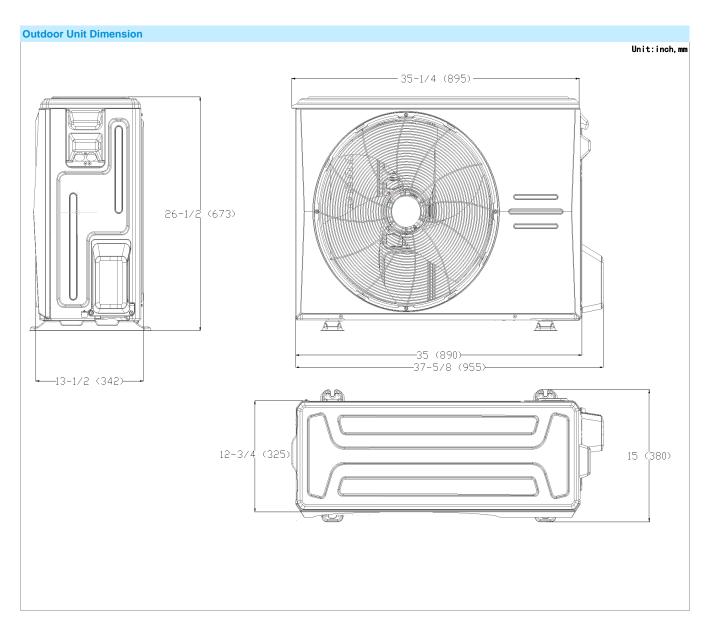


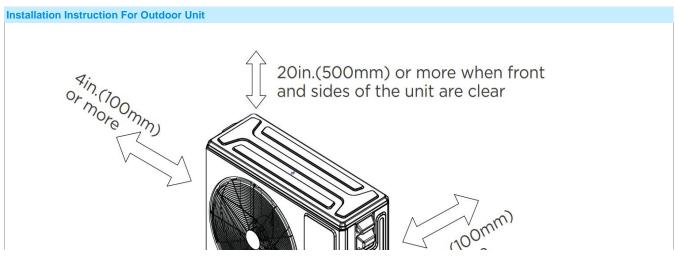


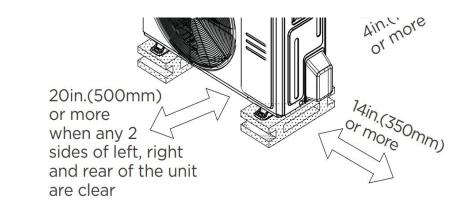


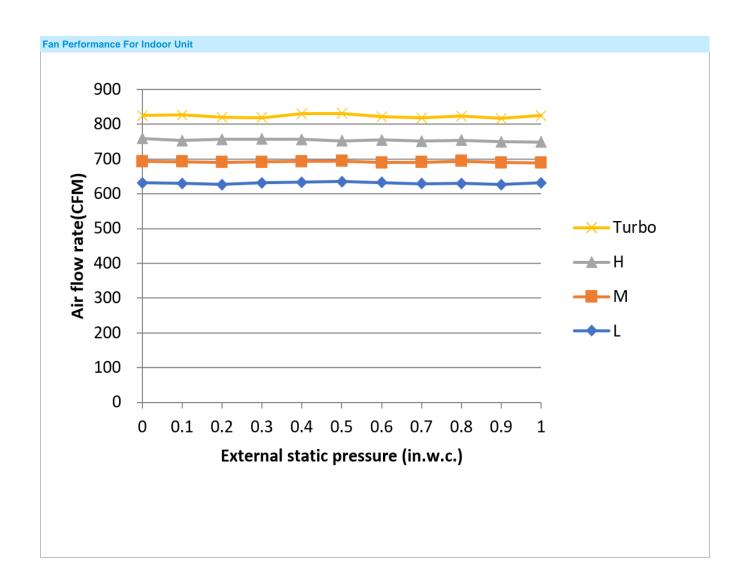
Model(Btu/h)		18K/24K		30K/36K		48K/54K	
Dimens	sions	inch	mm	inch	mm	inch	mm
A	Model Height	53-7/8	1368	58-1/8	1476	60-1/8	1526
В	Model Width	14-4/8	368	17-4/8	445	21-4/8	546
С	Supply Air Opening Width	12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width	11-1/8	282	14-4/8	368	18-4/8	470
E	Model Depth	21-1/2	546	21-1/2	546	21-1/2	546
F	Supply Air Opening Depth	10-5/8	271	10-5/8	271	10-5/8	271
G	Return Air Opening Depth	19	484	19	484	19	484
Н	Supply Air Opening Clearance	7/8	22	7/8	22	7/8	22
	Supply Air Opening Clearance	1	24	1	24	1	24
J	Return Air Opening Front Clearance	2-4/8	62	2-4/8	62	2-4/8	62
K	Return Air Opening Back Clearance	1-4/8	37	1-4/8	37	1-4/8	37
L	Top cover knock hole	/	/	9	229	10-7/8	275

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	М	Top cover knock hole	4-1/2	113	4-7/8	124	5-1/8	131
	N	Top cover knock hole	2	51	2	51	1-5/8	41









Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- 115/230V voltage compatible for IDU
- Aluminum Coil

Constantly All Flow system up to 1.0 in.w.G
● 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 Thermostate
• Third-Party 24V Thermostat
Adaptive Control System
● High efficiency up to 19 SEER2, 12.5 EER2, 10.8 HSPF2
● 100% heat output at -13F*
● Chassis heater and crankcase heater equipped as standard

* For MVBDM-36HWFN10-WB3-D pairing with MOX630-36HFN10-M3X, rated cooling capacity/heating capacity at -13F=100%