R454b Refrigerant

SUBMITTAL DATA SHEET

Series Name: EVOX Dual-Fuel System (Uncased Coil) Advanced Heat Series
Model Number: MAAHE-H36B-AA-UC/MO1BE-H36B-2A

Midea

Air Handler Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Dimension (W×D×H)	inch	13 x 22-3/8 x 22-1/8
	mm	331 x 575 x 561
Package (W×D×H)	inch	16-1/8 x 26-1/8 x 27-3/8
	mm	410 x 665 x 695
Net/Gross Weight	lbs	25.96/42.9
	kg	11.8/19.5

OUTDOOR SPECIFICATION		
Compressor Type		TWIN-ROTARY
Compressor Model		KTF310D43UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1,000
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2,413
Outdoor Noise Level (dBA)		63
Dimension (W×D×H)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 × 410 × 810
Package (W×D×H)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1,090 × 500 × 885
Net/Gross Weight	lbs	153 /164
	kg	69.5 / 74.2

EFFICIENCY			
Cooling		Heating	
SEER2	14.9	HSPF2-4	8.5
EER2	10.0	COP	3.06

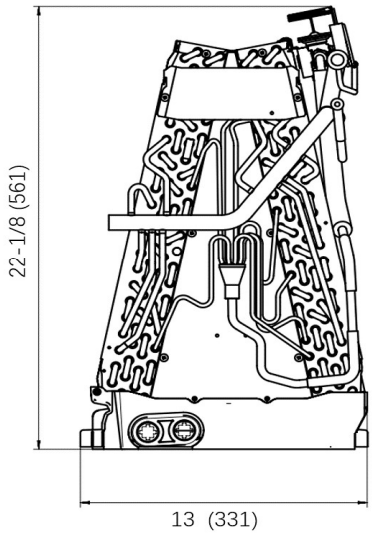
ELECTRICAL	
Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	24.0
Outdoor MOP	30.0
Communication Wiring	AWG 20-2
Compressor RLA	17.5
Outdoor Fan Motor RLA	1.5
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	2,900 (880 ~ 3,880)
System Power Input @ Heating (W)	3,350 (790 ~ 3,840)
MCA: Min. circuit amps (A)	**MOCP: Max. over current protection (A)**
RLA: Rated load amps (A)	**W: Fan motor rated output (W)**

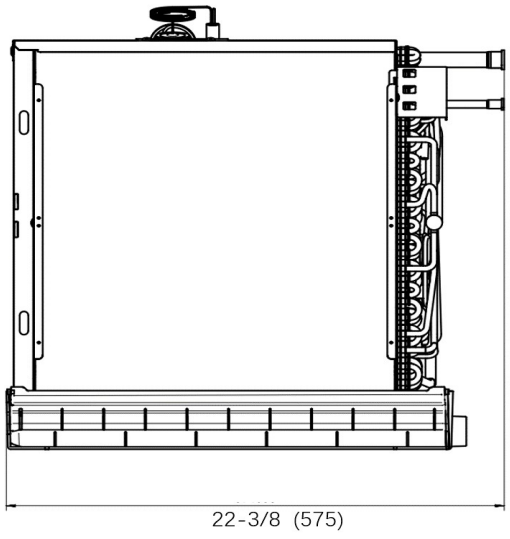
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	29,000
Min/Max Capacity	9,600 ~ 33,400
Moisture Removal(L/h)	4
Standard Operating Range(°F/°C)	-13~122 (-25 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	35,000
2. @ 47°F Min/Max Capacity	9,000 ~ 36,600
3. @ 17°F Rated	23,400
4. @ 5°F Rated: Capacity / COP	27,600/1.9
5. @ 5°F Max: Capacity	27,600
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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

PIPING	
Throttle type(Indoor)	TXV
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)	98.4 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	116 (3.3)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

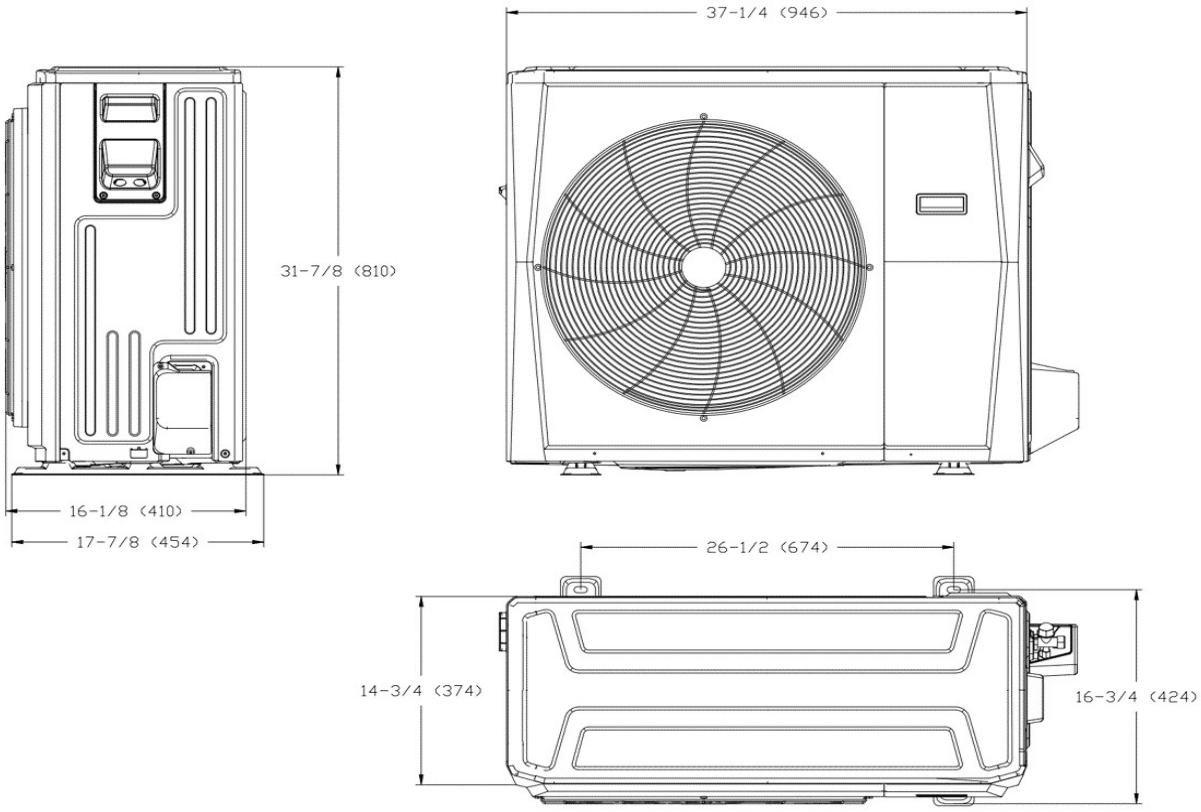
Indoor Unit Dimension



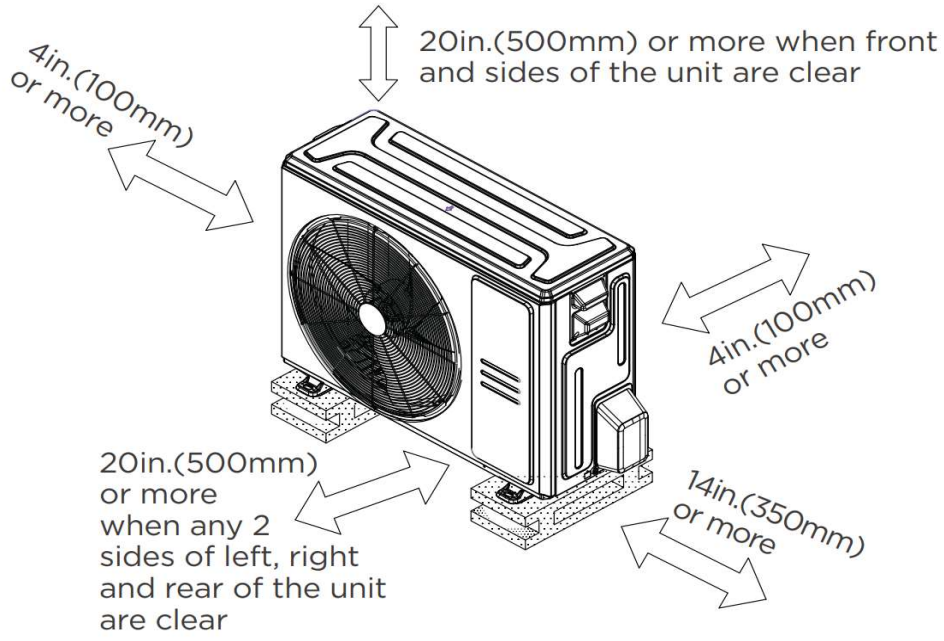


Outdoor Unit Dimension

Unit:inch(mm)



Installation Instruction For Outdoor Unit



Features

- Aluminum Coil
- Easy Maintenance
- Multiple control options available:
  - Wireless remote controller RG10
  - Two-way communication programmable wired controller with built-in Wi-Fi:120N(X6W) (Built-In)
  - Midea Smart Thermostat: MTL04-1
  - Third-Party 24V Thermostat
- Adaptive Control System
- Standard graphene fins, a standard feature of the outdoor unit, deliver superior corrosion resistance
- The outdoor unit comes standard with chassis and crankshaft electric heating
- Built-in Refrigerant Detection Sensor