

Model Number: MRH32-36 (33E) / AHH32-36(33J)

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



INDOOR SPECIFICATION		
Indoor Air Flow (High/Low) (CFM)		1110/520
Indoor Noise Level (High/Low) (dBA)		50/38
Dimension (WxDxH)	inch	21-1/32" x 21-1/32" x 49-7/32"
	mm	534 x 534 x 1245
Package (WxDxH)	inch	24-13/32" x 26-37/64" x 50-13/64"
	mm	620 x 675 x 1275
Net/Gross Weight	lbs	137/151
	kg	62/68.5

OUTDOOR SPECIFICATION		
Compressor Type		TWIN-ROTARY
Compressor Model		KTM240D57UMT
Refrigerant		R32
Refrigerant Oil Charge(mL)		670
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2800.0
Outdoor Noise Level (dBA)		58
Dimension (WxDxH)	inch	29-9/64" x 29-9/64" x 25"
	mm	740 x 740 x 635
Package (WxDxH)	inch	30-5/16" x 30-5/16" x 26-3/16"
	mm	770 x 770 x 665
Net/Gross Weight	lbs	143/151
	kg	65/69

EFFICIENCY			
Cooling		Heating	
SEER2	19.3	HSPF2-4	8.1
EER2	11.0	COP	3.20

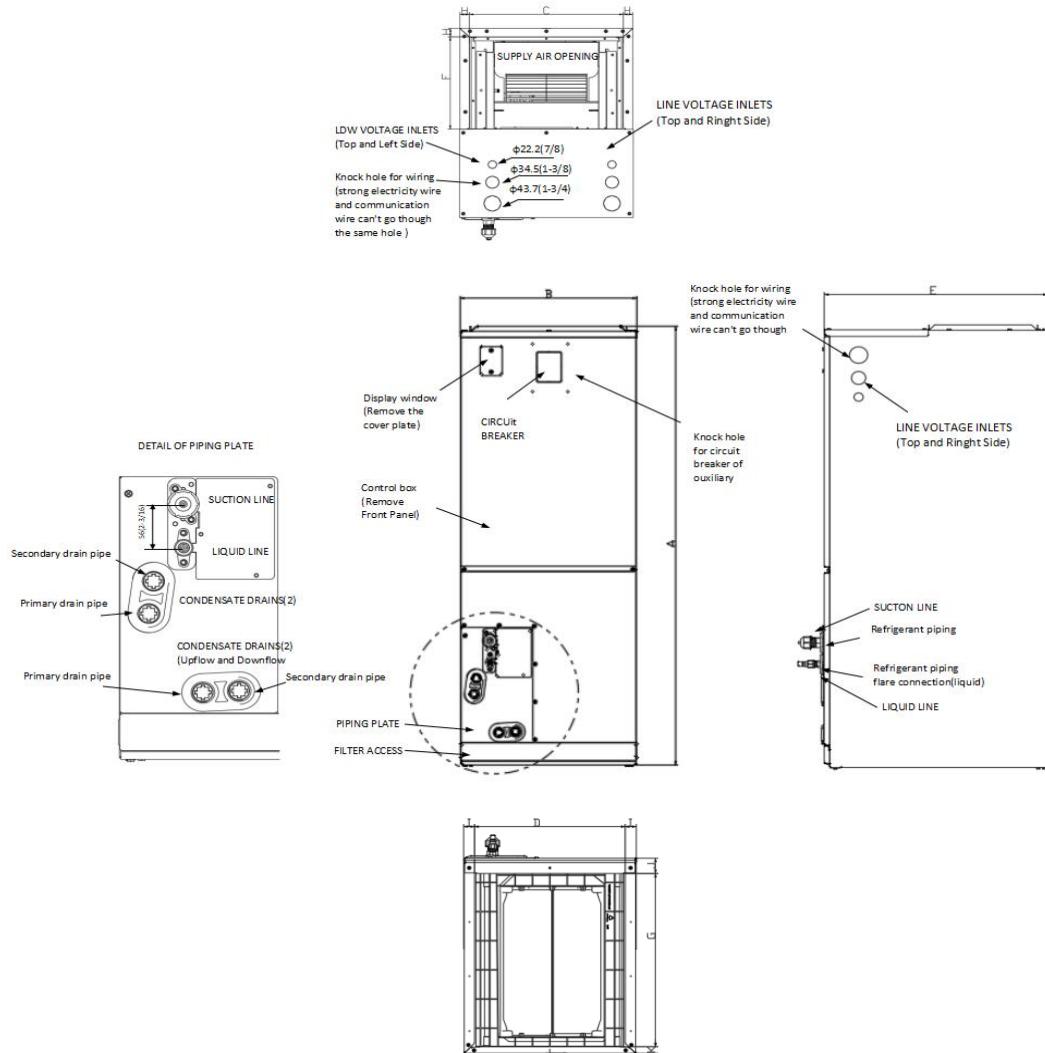
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	13000~38000
Moisture Removal(L/h)	0
Standard Operating Range(°F/°C)	5~131(15~55)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	34200
2. @ 47°F Min/Max Capacity	11000~39000
3. @ 17°F Rated	17500
4. @ 5°F Rated: Capacity / COP	27000/1.72
5. @ 5°F Max: Capacity	27000
Standard Operating Range(°F/°C)	-4~75(-20~24)
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		208/230V,60Hz,1Ph
Indoor MCA		5
Indoor MOP		15
Outdoor Power Supply		208/230V,60Hz,1Ph
Outdoor MCA		24
Outdoor MOP		30
Communication Wiring		AWG 25x3 Shielded
Compressor RLA		9.45
Outdoor Fan Motor RLA		2.3
Outdoor Fan Motor W		200
Indoor Fan Motor RLA		3.6
Indoor Fan Motor W		375
System Power Input @ Cooling (W)		2905.98290598291(460~3600)
System Power Input @ Heating (W)		3300(600~3600)
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)
RLA: Rated load amps (A)		W: Fan motor rated output (W)

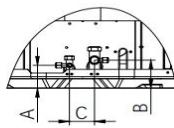
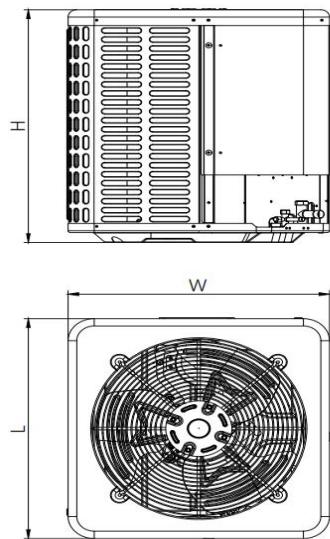
PIPING		
Throttle type(Indoor)		Piston
Throttle type(Outdoor)		EXV
Liquid Size		9.52mm(3/8in)
Gas Size		19mm(3/4in)
Max. Piping Length(ft/m)		246(75)
Max. Height Difference(ft/m)		98.4(30)
Max. Pre-charged Length(ft/m)		24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)		102.3(2.9)
Additional Charge of Refrigerant((oz/ft)/(g/m))		0.52(48)
Connection Method		Flared

Indoor Unit Dimension



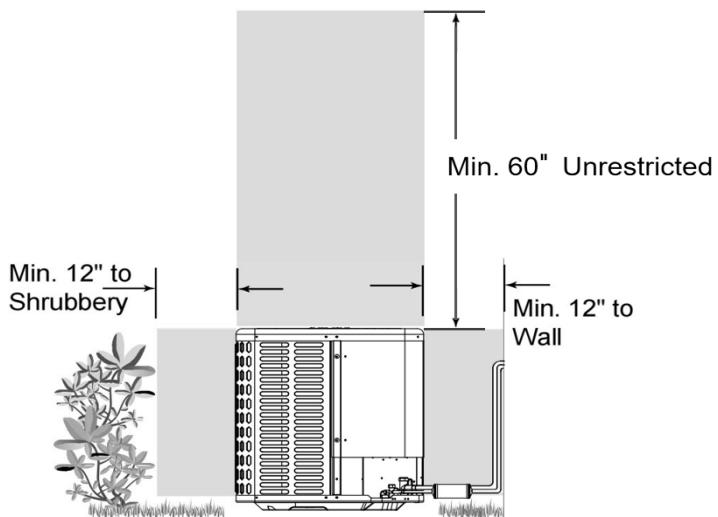
Dimensions	Model	24K/36K	48K/60K
		inch	inch
A	Model Height	49-7/32	52-63/64
B	Model Width	21-1/32	24-31/64
C	Supply air opening width	19-9/64	22-19/32
D	Return air opening width	18-47/64	22-23/64
E	Model Depth	21-1/32	21-1/32
F	Supply air opening Depth	10-9/32	10-9/32
G	Return air opening Depth	18-23/32	18-23/32
H	Supply air opening Clearance	15/16	15/16
I	Return air opening side Clearance	1-1/8	1-1/8
J	Return air opening front Clearance	1-21/32	1-21/32
K	Return air opening back Clearance	45/64	45/64

Outdoor Unit Dimension

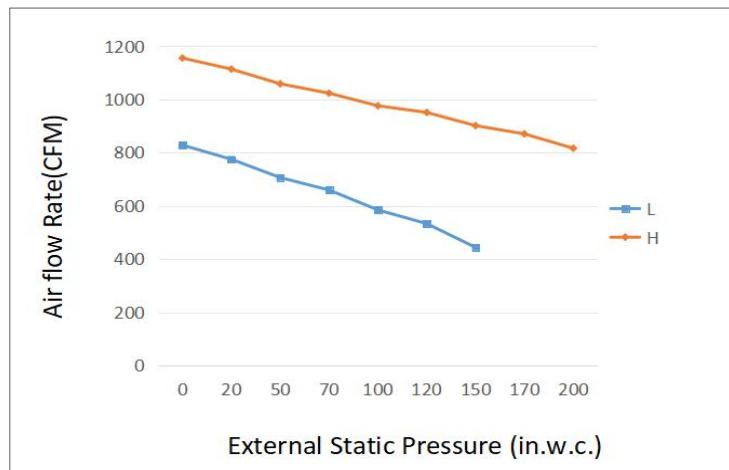


Dimensions	Model	30K/36K		48K/60K	
		inch	mm	inch	mm
W	Model width	29-9/64	740	29-9/64	740
L	Model length	29-9/64	740	29-9/64	740
H	Model height	25	635	32-7/8	835
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- DC inverter technology and energy-saving, SEER2 up to 19.7
- ECM fan motor with constant torque technology,
- Multi-position installation: horizontal(left or right), vertical(up or down)
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- High precision electrical expansion valve (outdoor unit)
- Built-in thermal expansion valve (indoor unit)
- Optional Auxiliary heat kit up to 20kW
- Easy Maintenance
- Multiple control options available:
 - Wired controller with built-in WiFi
 - Third-Party 24V Thermostat
- Adaptive Control System
- Crankcase heater equipped as standard