

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 Air Flow (Turbo/H/M/L/Si) (CFM)	989 / 895 / 806 / 542 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	//60.5/58.5/50//
Dimension (WxDxH)	inch 55.24 x 23.33 x 10.93 mm 1,403x592.7x277.6
Package (WxDxH)	inch 59.25185 x 26.77160 x 13.58265 mm 1505x680x345
Net/Gross Weight	lbs 63/68 kg 63/68.5

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTF250D22UMT
Refrigerant	R454B
Refrigerant Oil Charge(mL)	670
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	3,002
Outdoor Noise Level (dBA)	59
Dimension (WxDxH)	inch 37.24 x 16.14 x 31.89 mm 946x410x810
Package (WxDxH)	inch 42.91330 x 19.68500 x 34.84245 mm 1090x500x885
Net/Gross Weight	lbs 141.76/152.34 kg 64.3/69.1

EFFICIENCY

Cooling	Heating
SEER2	16.6 HSPF2-4 8.1
EER2	10.5 COP 3.2

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	30,000
Min/Max Capacity	7,300~33,400
Moisture Removal(L/h)	2.66
Standard Operating Range(°F/°C)	-13~122/-13~75(-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	30,000
2. @ 47°F Min/Max Capacity	5,700~31,000
3. @ 17°F Rated	19,000
4. @ 5°F Rated: Capacity / COP	19,000/1.9
5. @ 5°F Max: Capacity	19,000
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

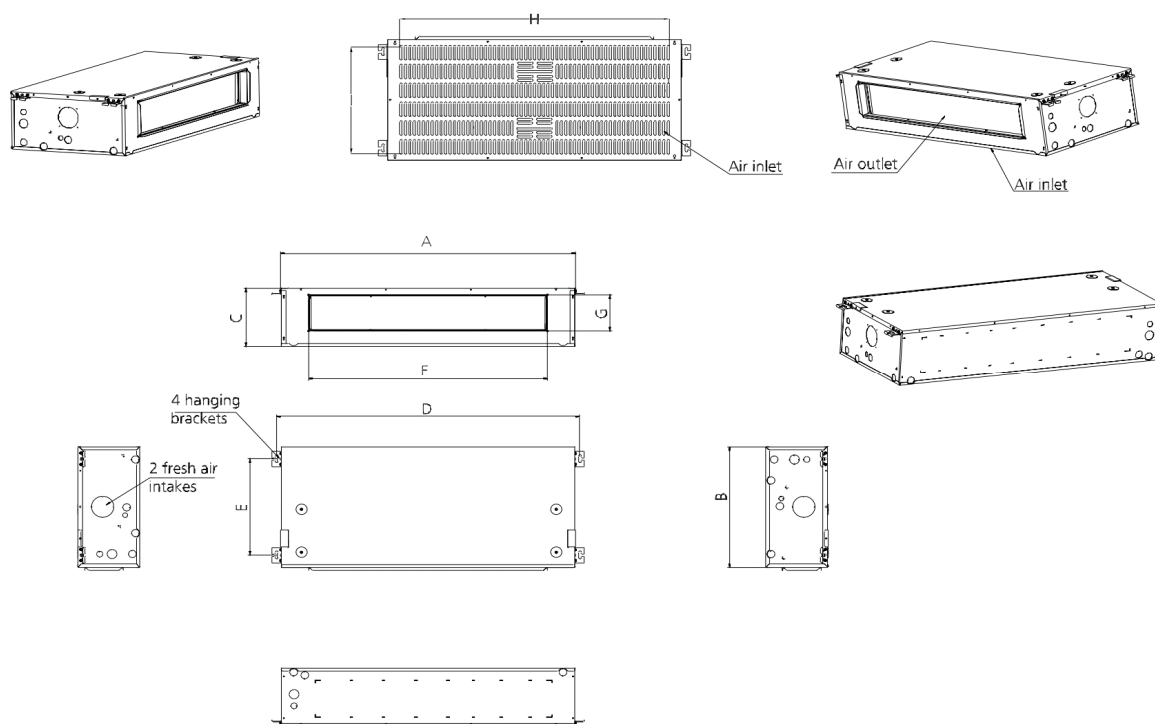
ELECTRICAL

Indoor Power Supply	115/208/230,60Hz,1Ph
Indoor MCA 115V/(208/230V)	115V:8A; 208/230V:6A
Indoor MOP	15
Outdoor Power Supply	115/208/230,60Hz,1Ph
Outdoor MCA	22.5
Outdoor MOP	25
Communication Wiring	AWG 20/2
Compressor RLA	17
Outdoor Fan Motor RLA	1.1
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	115V:6.4A 208/230V:4.5A
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	2,857(500 ~ 3,130)
System Power Input @ Heating (W)	2,748(485 ~2,748)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

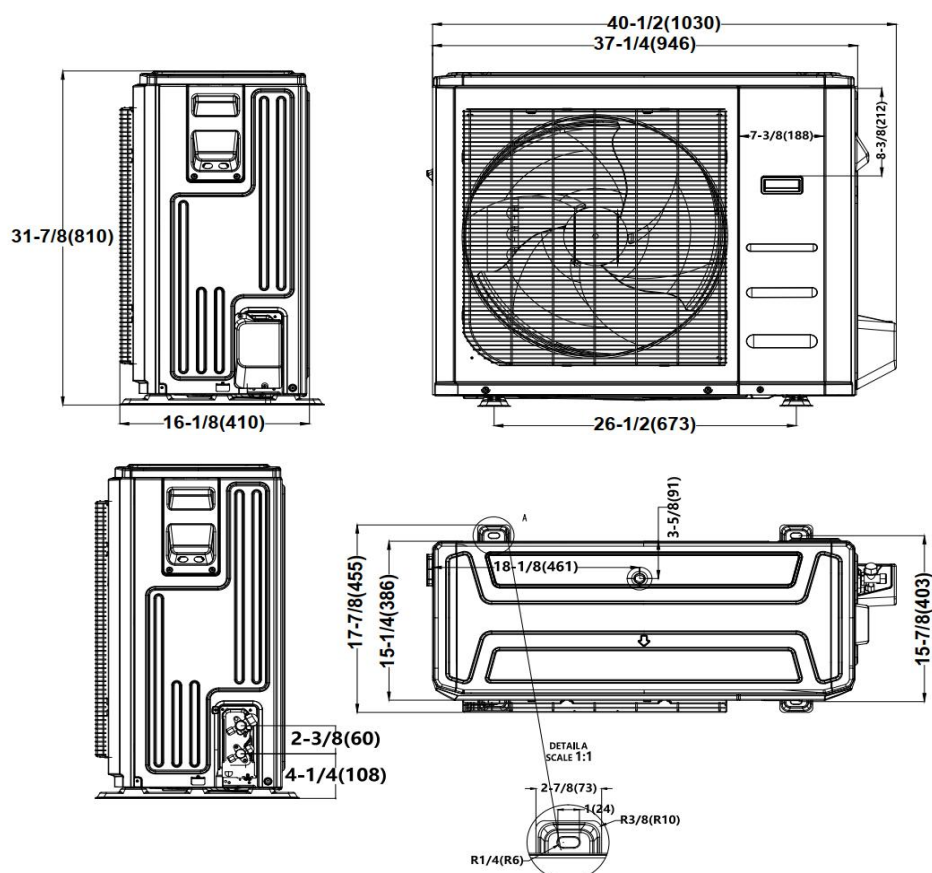
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	91.71(2.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

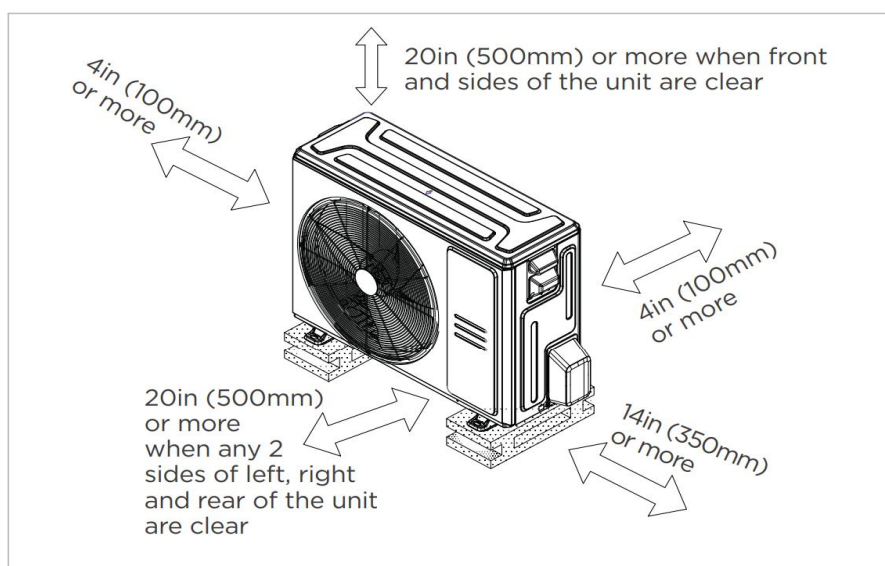


Dimensions		Model	18k	24k	30k/	36k
			inch(mm)	inch(mm)	inch(mm)	inch(mm)
Outline Dimension	A	Model Model	39-15/16 (1015)	45-7/8 (1165)	51-15/16 (1320)	58-7/8 (1495)
	B	Model Width	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)
	C	Model Height	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)
Size Of Mounted Lug	D	Mounted Lug Length	41-5/8 (1057)	47-1/2 (1207)	53-5/8 (1362)	60-1/2 (1537)
	E	Mounted Lug Width	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)
Air Outlet Opening Size	F	Air Outlet Length	30-5/16 (769)	36-3/16 (919)	42-5/16 (1074)	49-3/16 (1249)
	G	Air Outlet Width	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)
Air Return Opening Size	H	Air Return Length	38-3/8 (975)	44-5/16 (1125)	50-3/8 (1280)	57-1/4 (1455)
	I	Air Return Width	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)

Outdoor Unit Dimension



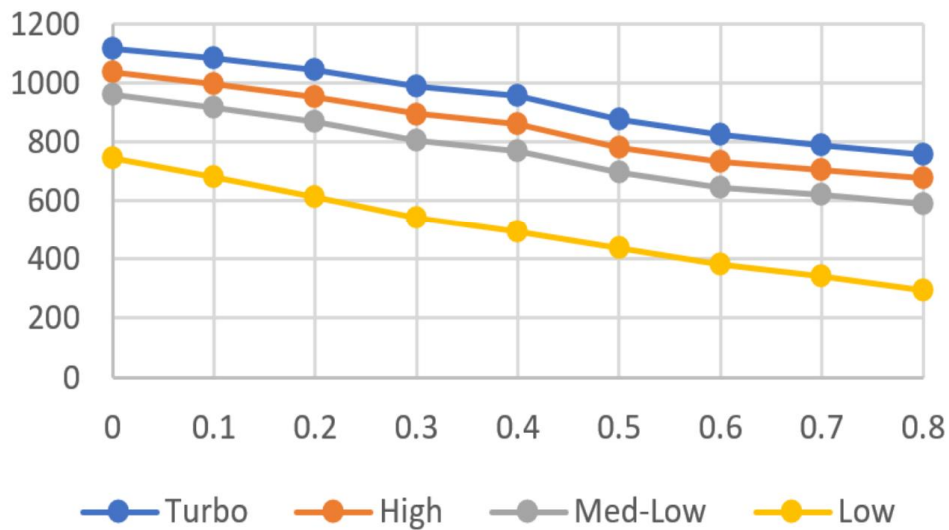
Installation Instruction For Outdoor Unit



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan Performance For Indoor Unit

30K



Features

- High efficiency up to 16.8 SEER2, 12 EER2, 10.5 HSPF2
- Aluminum Coil
- IDU compatible with 115V and 230V
- 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:AWC-4
 - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control wiring method on 24V and RS485
- Downward or Backward (optional) air inlet
- Chassis heater and crankcase heater equipped as standard