

Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:


INDOOR SPECIFICATION

ESP(in.W.G)	O-0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1189.0 / 1083.0 / 971.2 / 865.2 / 865.2
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	52/52/48.5/36.5/36.5
Dimension (WxDxH)	inch 22.01 x 19.02 x 40.04
	mm 559x483x1017
Package (WxDxH)	inch 24.61 x 22.83 x 46.97
	mm 625x580x1193
Net/Gross Weight	lbs 109.57/130.73
	kg 49.7/59.3

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY
Compressor Model	EKPQ420D1UMUA
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1460
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	3001.9
Outdoor Noise Level (dBA)	64
Dimension (WxDxH)	inch 38.58 x 16.34 x 38.39
	mm 980x415x975
Package (WxDxH)	inch 45.08 x 19.69 x 42.52
	mm 1145x500x1080
Net/Gross Weight	lbs 204.15/235.23
	kg 92.6/106.7

EFFICIENCY

Cooling		Heating	
SEER2	16.8	HSPF2-4	9.6
EER2	11.2	COP	3.4

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	13700~41500
Moisture Removal(L/h)	3.47
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	37000
2. @ 47°F Min/Max Capacity	10100~48500
3. @ 17°F Rated	30200
4. @ 5°F Rated: Capacity / COP	34600/1.8
5. @ 5°F Max: Capacity	34600
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

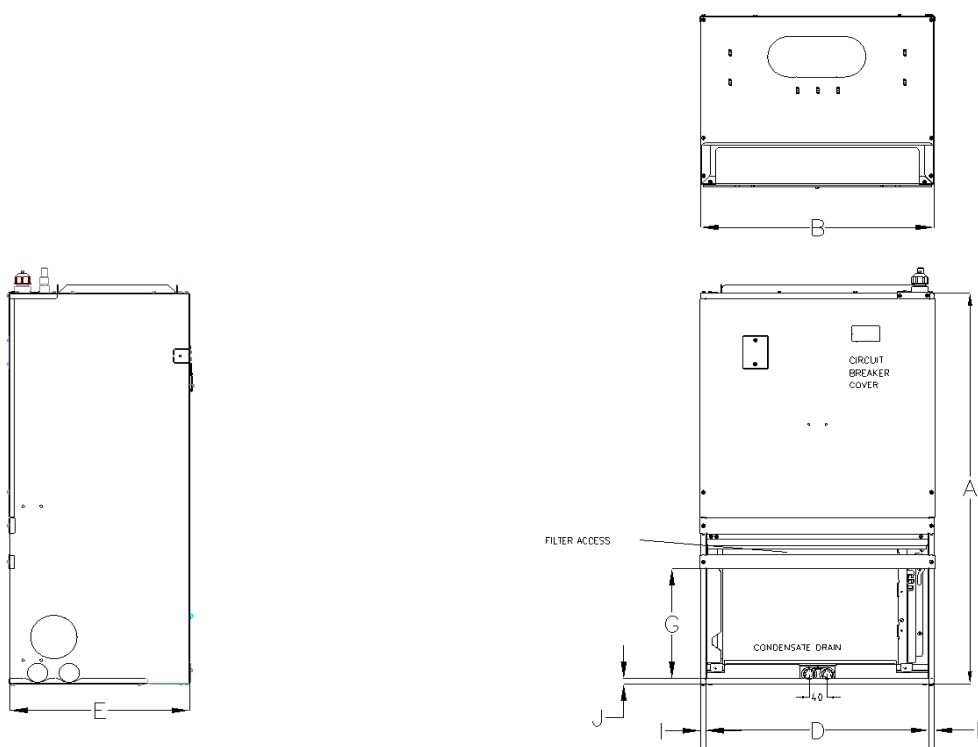
ELECTRICAL

Indoor Power Supply	115V/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	6.5
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	29
Outdoor MOP	30
Communication Wiring	AWG 20-2
Compressor RLA	20.5
Outdoor Fan Motor RLA	2.4
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	3214(1170 ~ 4400)
System Power Input @ Heating (W)	3189(725 ~ 4420)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

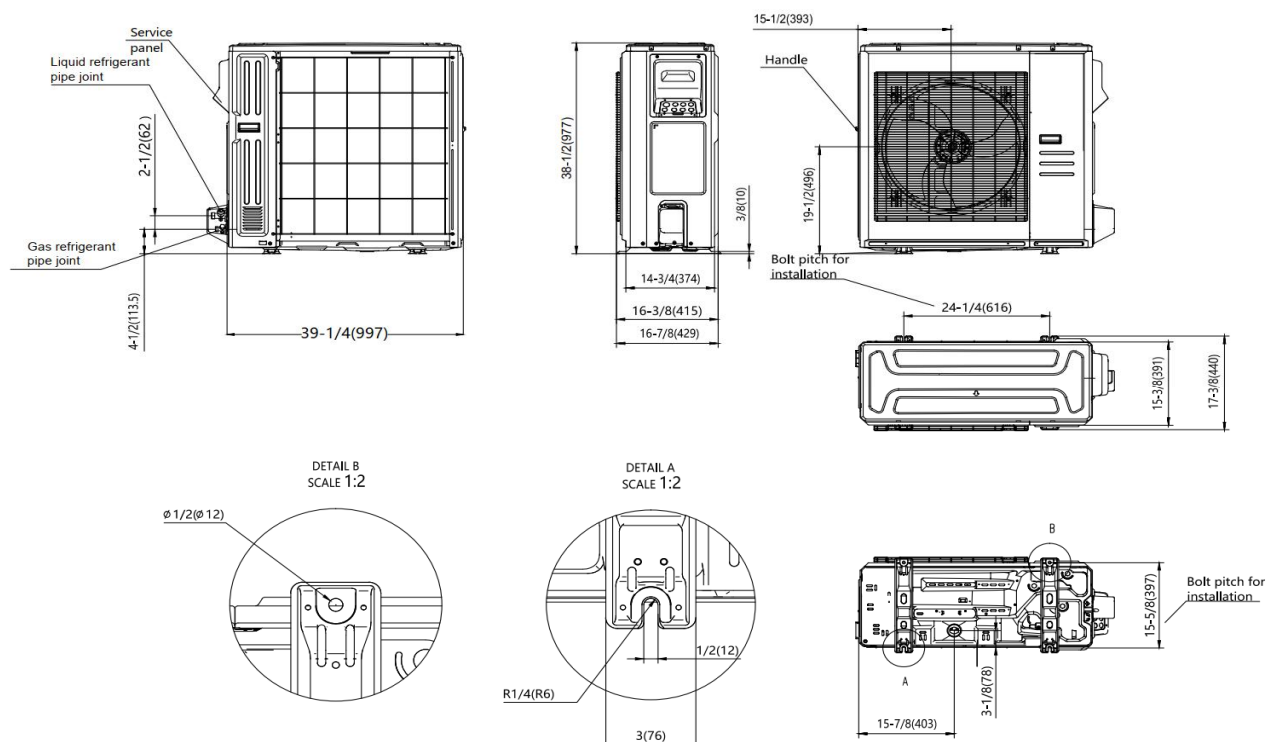
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98.40(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	126.99(3.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

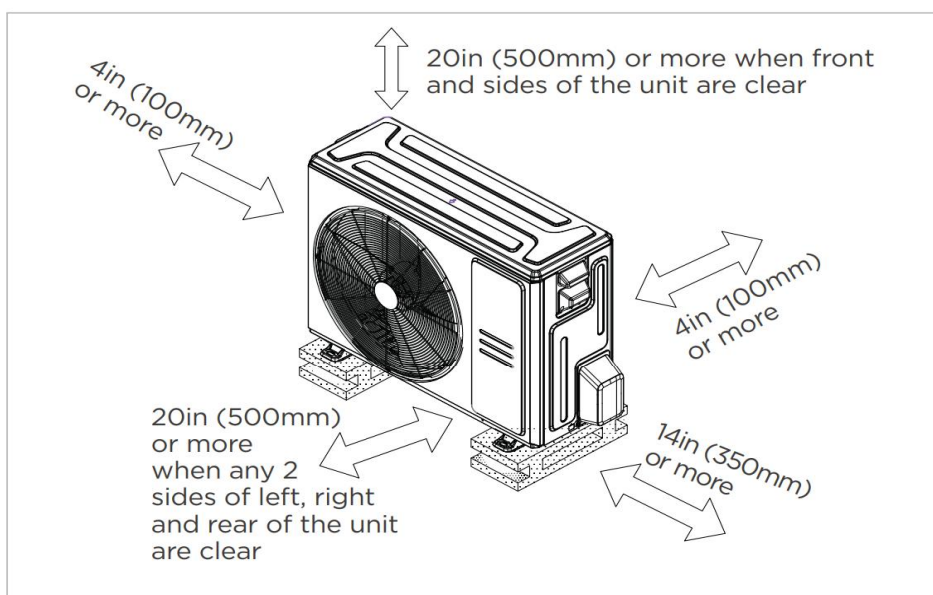


Dimensions		Model(Btu/h)		18K/24K		30K/36K	
				inch	mm	inch	mm
A	Model Height			36.5	928	49	1017
B	Model Width			20.3	515	21	559
C	Supply Air Opening Width			17.4	442	18.8	478.6
D	Return Air Opening Width			19.4	493.8	21.2	537.8
E	Model Depth			15.7	399	21	483
F	Supply Air Opening Depth			10.4	265.2	9.3	235.4
G	Return Air Opening Depth			10.3	261	13.1	332.5
H	Supply Air Opening Clearance			1.1	29.1	1.6	41
I	Return Air Opening Side Clearance			0.42	10.6	0.42	10.6
J	Return Air Opening Front Clearance			0.47	12	0.63	16

Outdoor Unit Dimension



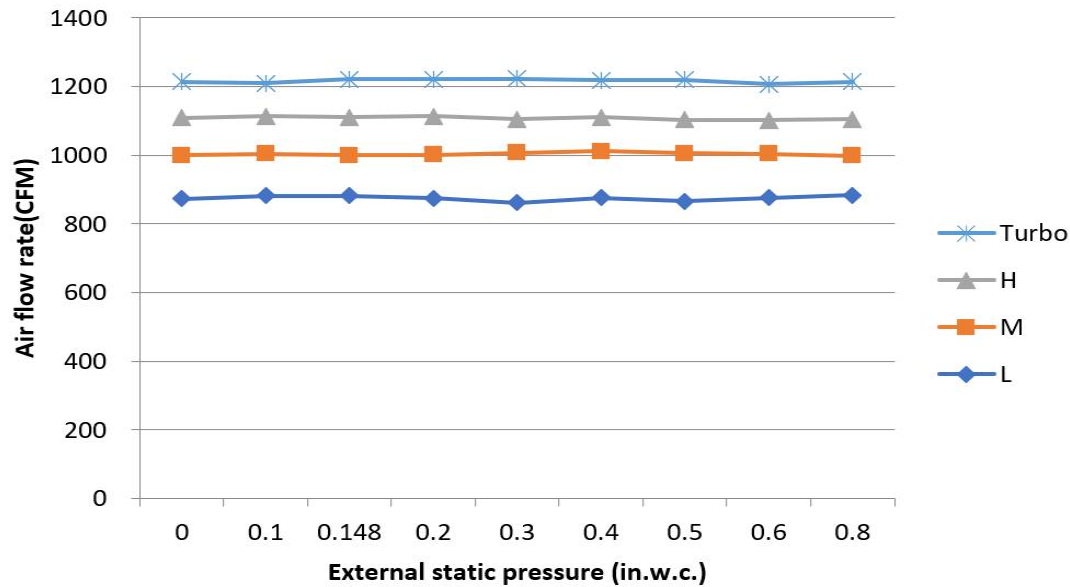
Installation Instruction For Outdoor Unit



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

Fan Performance For Indoor Unit

36K



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:AWC-4
 - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
 - 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