Submittal Data Sheet

Series Name: Extreme Heat Series
Model Number: CS-HM36BAHU/CU-HM36BAHU

AIR HANDLER HEAT PUMP SYSTEM	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow		1189.0 / 1083.0 / 971.2 / 865.2 /
Indoor Noise Level (Turbo/H/M/L/		49/48.0/45.5/25.5/N/A
Dimension (W×D×H)	inch	21.02 x 21.02 x 49.02
	mm	534.0×534.0×1245.0
Package (W×D×H)	inch	26.57 x 24.41 x 52.56
	mm	675×620×1335
Net/Gross Weight	lbs	129.41/153.88
	kg	58.7/69.8

OUTDOOR SPECIFICATION		
Compressor Type		TWIN-ROTARY
Compressor Model		EKPQ420D1UMUA
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1460
Refrigerant Oil		VG75
Outdoor Air Flow (Max) (CFM)		3001.8
Outdoor Noise Level (dBA)		62.5
Dimension (W×D×H)	inch	38.58 x 16.34 x 38.39
	mm	980.0×415.0×975.0
Package (W×D×H)	inch	45.08 x 19.68 x 42.52
	mm	1145×500×1080
Net/Gross Weight	lbs	204.15/235.23
	kg	92.6/106.7

EFFICIENCY			
Cooling		Heating	
SEER2	17.4	HSPF2-4	10.2
EER2	11.7	COP	3.60

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	9700~42000
Moisture Removal(L/h)	3.4
Standard Operating Range(°F	-22~122(-30～50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

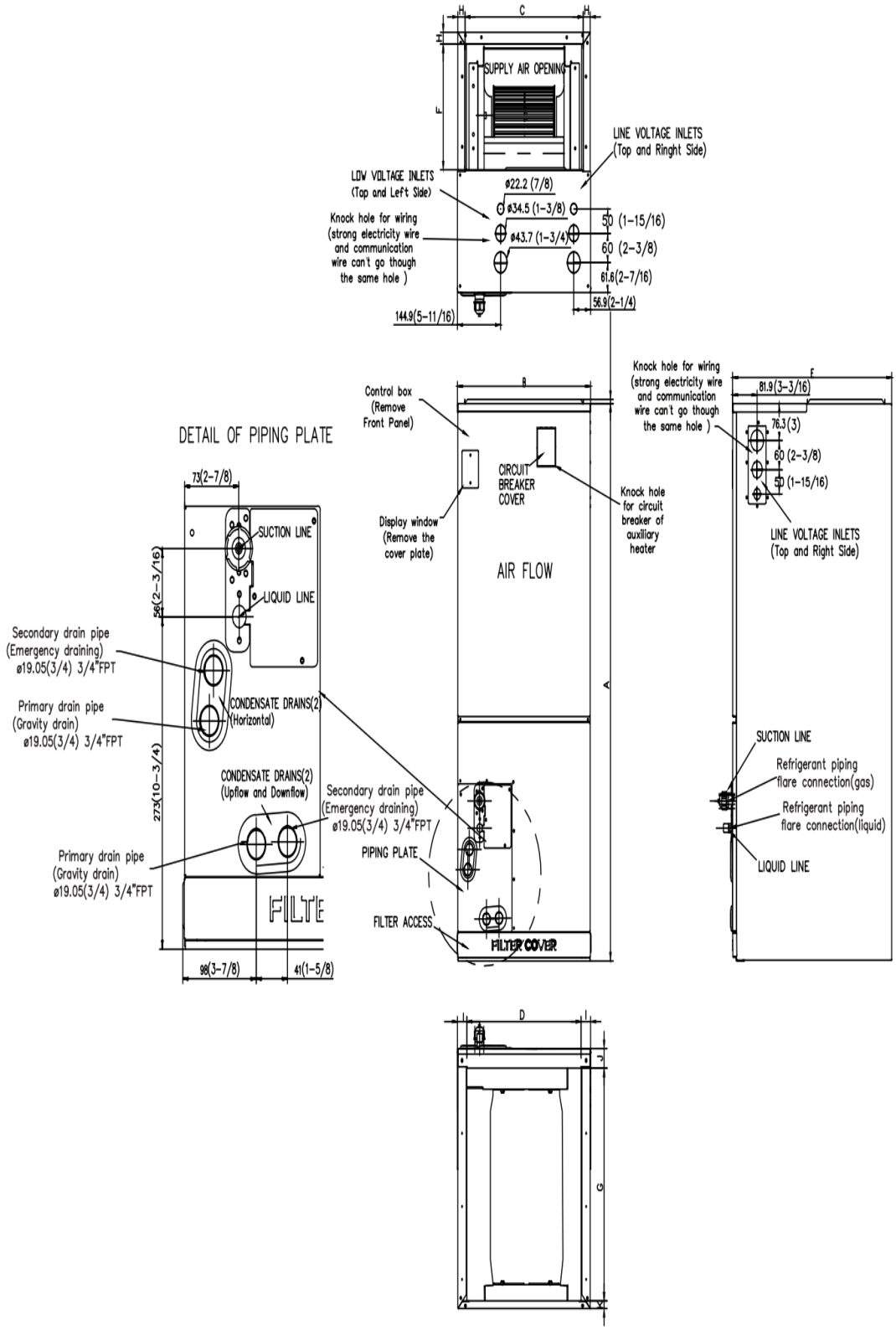
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	37000

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	8.0/6.0
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	250
Indoor Fan Motor RLA	4.5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	3076(820 ~ 4440)
System Power Input @ Heating (W)	3012(665 ~4370)
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	11000~48000
3. @ 17°F Rated	31800
4. @ 5°F Rated: Capacity / COI	39000/1.9
5. @ 5°F Max: Capacity	39000
Standard Operating Range(°F	-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, Compre Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

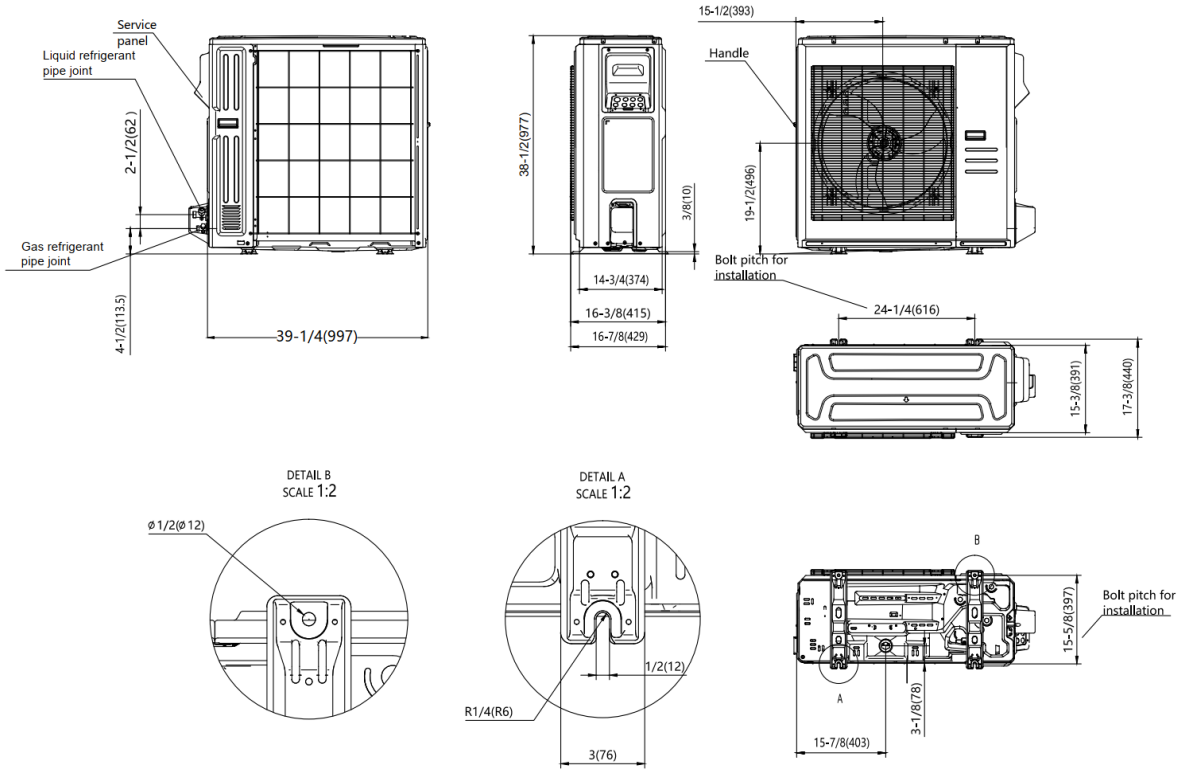
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98.4(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged	126.99(3.6)
ɔnal Charge of Refrigerant((oz/ft)/	0.7(65)
Connection Method	Flared

INDOOR UNIT DIMENSIONS

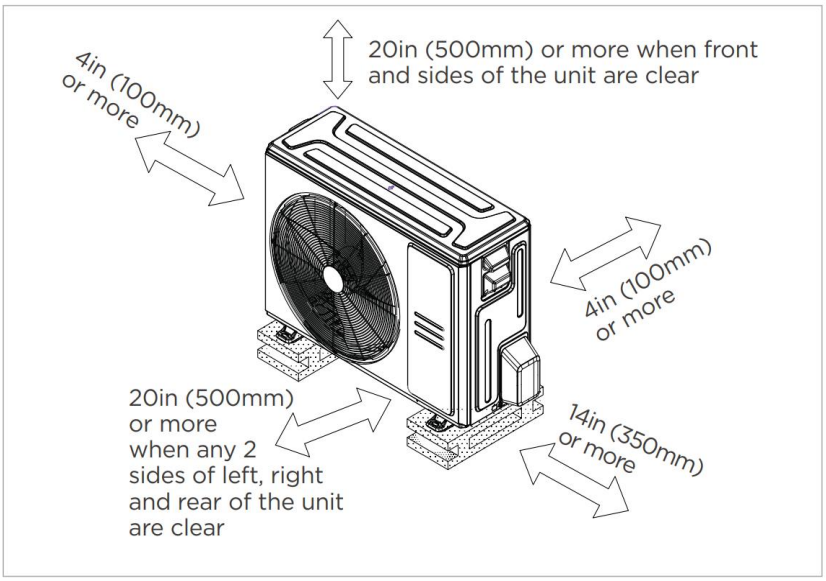


Dimensions / Model		18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476	18-3/4	476
H	Supply Air Opening Clearance	15/16	24	15/16	24	15/16	24
I	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32	1-1/8	28
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16	3/4	19

OUTDOOR UNIT DIMENSIONS

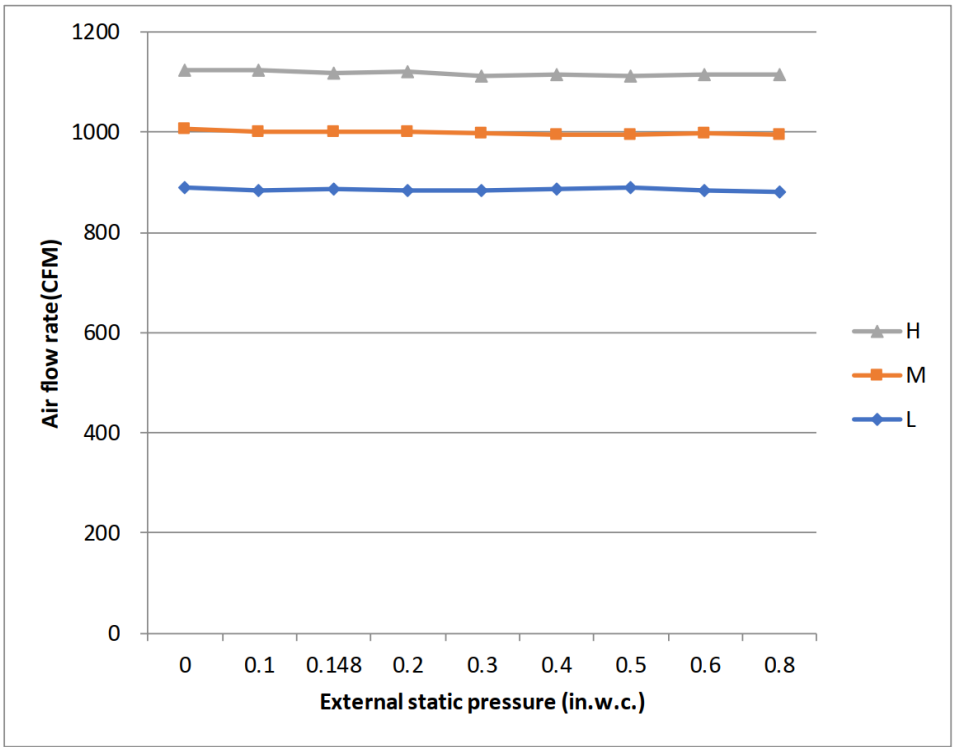


INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



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

FAN PERFORMANCE FOR INDOOR UNIT



FEATURES

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Wireless remote controller
  - Third-Party 24V Thermostat
- Adaptive Control System
- Chassis heater and crankcase heater equipped as standard