

Submittal Data Sheet

Series Name: Extreme Heat Series
Model Number: CS-HM48BAHU/CU-HM48BAHU

Panasonic

AIR HANDLER HEAT PUMP SYSTEM

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



INDOOR SPECIFICATION

Indoor Air Flow	1601.0 / 1471.5 / 1283.1 / 1094.8
Indoor Noise Level (Turbo/H/M/L)	N/A/52/50/34/N/A
Dimension (WxDxH)	inch 24-1/2 x 21 x 53
	mm 622 x 534 x 1346
Package (WxDxH)	inch 28 x 26-7/8 x 56-1/2
	mm 710 x 680 x 1435
Net/Gross Weight	lbs 162.92/190.92
	kg 73.9/86.6

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	MTH550UKPC8FU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1800
Refrigerant Oil	HAF68D1C
Outdoor Air Flow (Max) (CFM)	3037.1
Outdoor Noise Level (dBA)	65
Dimension (WxDxH)	inch 38-5/8 x 16-3/8 x 38-3/8
	mm 980 x 415 x 975
Package (WxDxH)	inch 45-1/8 x 19-3/4 x 42-5/8
	mm 1145 x 500 x 1080
Net/Gross Weight	lbs 201.06/232.36
	kg 91.2/105.4

EFFICIENCY

Cooling		Heating	
SEER2	16.5	HSPF2-4	9.5
EER2	10.5	COP	3.40

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	15600~51000
Moisture Removal(L/h)	3.85
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	50000

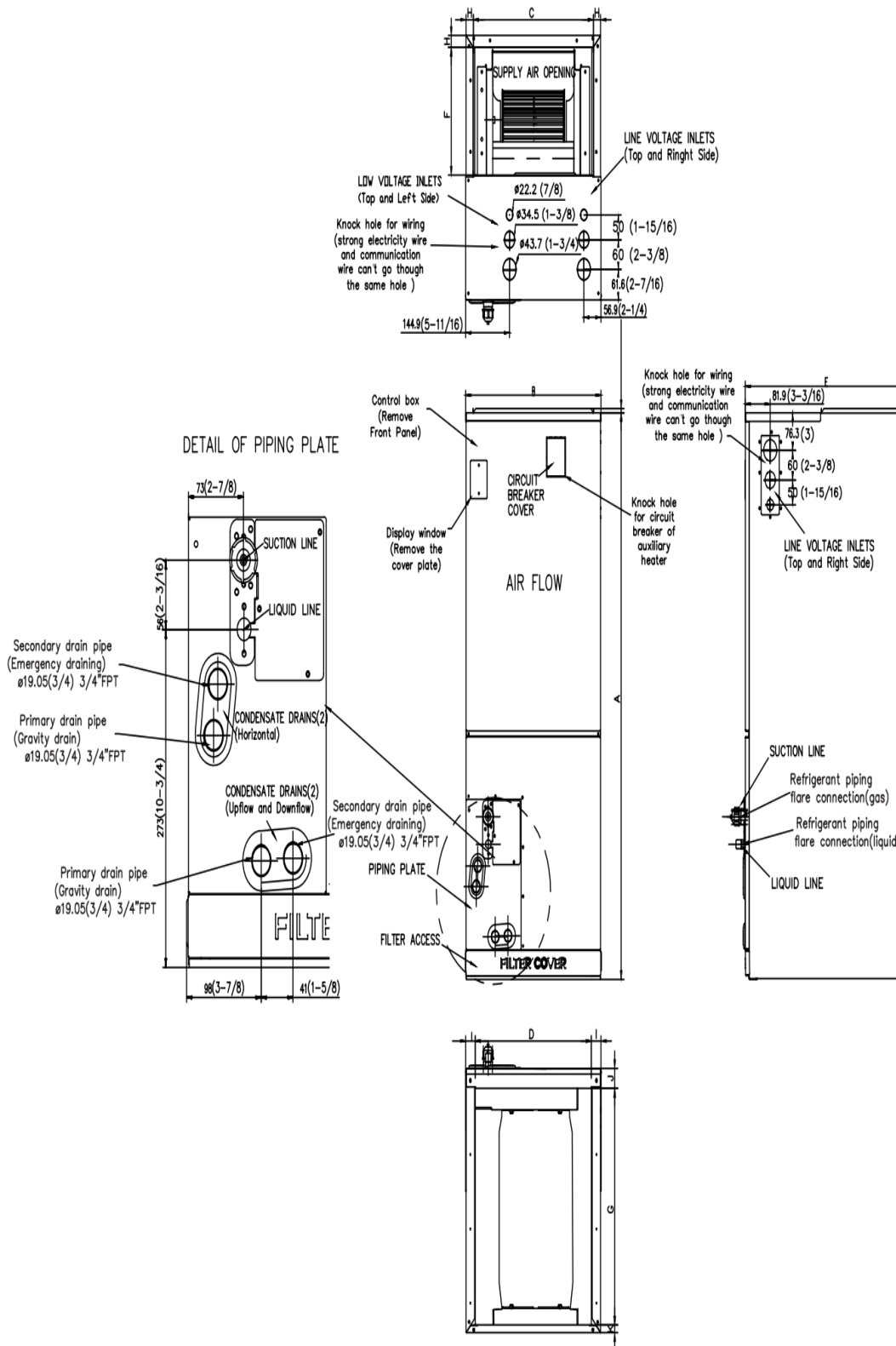
ELECTRICAL

Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/11.0
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	38
Outdoor MOP	40
Communication Wiring	AWG 20-2
Compressor RLA	28
Outdoor Fan Motor RLA	2
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	7.8
Indoor Fan Motor W	750
System Power Input @ Cooling (W)	4690(1345 ~ 5180)
System Power Input @ Heating (W)	4750(1045 ~ 5200)
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	15500~57300
3. @ 17°F Rated	37000
4. @ 5°F Rated: Capacity / COI	46000/1.9
5. @ 5°F Max: Capacity	46000
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	Indoor: 70°F DB/60°F WB
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB

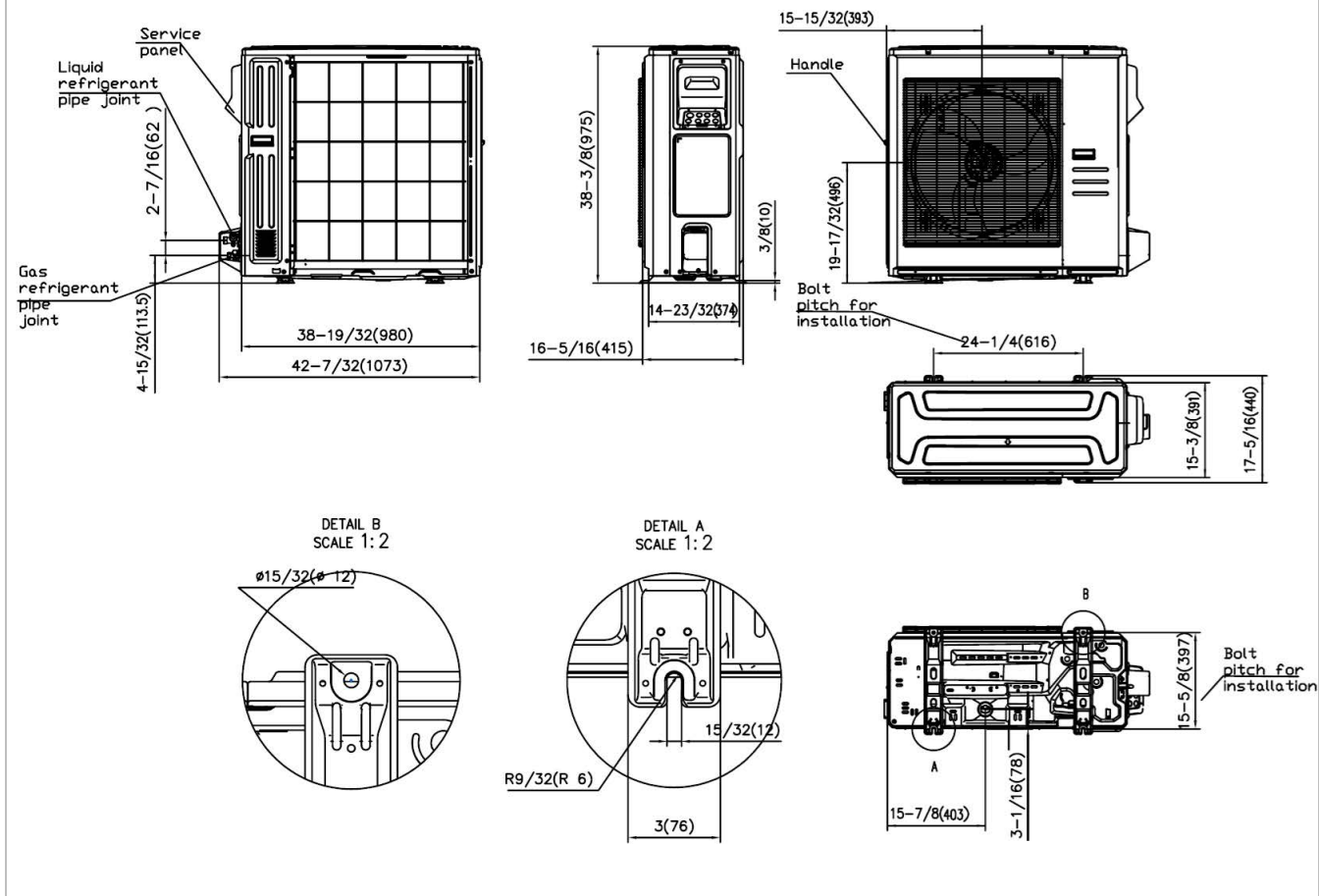
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98.4(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Additional Charge of	134.04(3.8)
Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

INDOOR UNIT DIMENSIONS

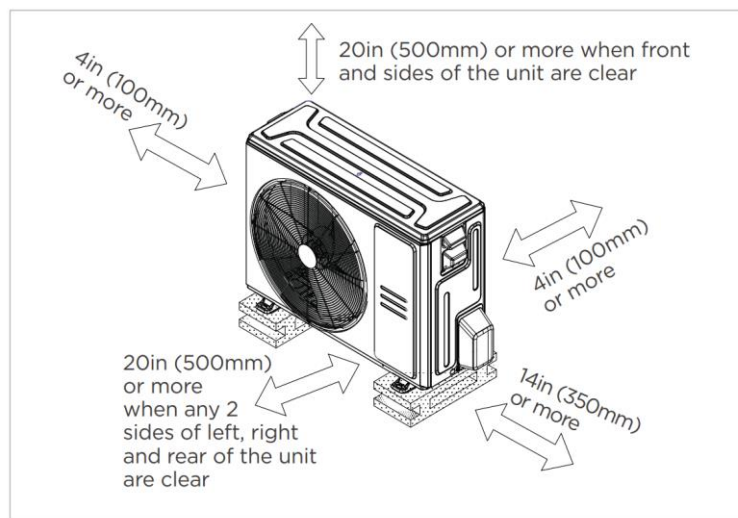


Dimensions Model		18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	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

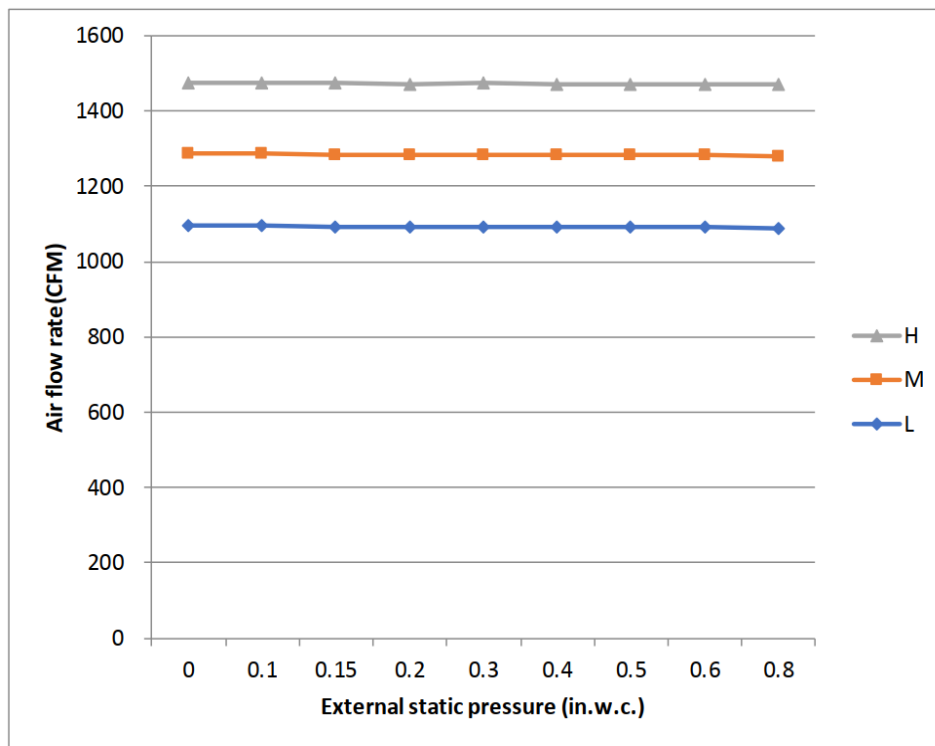


INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



☒ 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
- Two way communication wired controller
- Wireless remote controller
- Optional Third-Party 24V Thermostat
- Adaptive Control System
- Chassis heater and crankcase heater equipped as standard