

Submittal Data Sheet

CS-HM60BAAU4 -- Indoor A-Coil

CU-HM55BAHU -- Outdoor Extreme Heat Pump

Panasonic

Dual Fuel Heat Pump System

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



INDOOR SPECIFICATION

ESP(in.W.G)	-	
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	-	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	-	
Dimension (W×D×H)	inch	24-1/2 x 21 x 28
	mm	622 x 533 x 711
Package (W×D×H)	inch	27-3/4 x 26-1/8 x 30-3/8
	mm	705 x 665 x 770
Net/Gross Weight	lbs	81 / 92
	kg	36.8 / 41.9

OUTDOOR SPECIFICATION

Compressor Type	TWIN-ROTARY	
Compressor Model	ETPQ480D66UMU1	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	1300	
Refrigerant Oil	VG75	
Outdoor Air Flow (Max) (CFM)	2,649	
Outdoor Noise Level (dBA)	64	
Dimension (W×D×H)	inch	37-1/2 x 16-3/8 x 52-1/2
	mm	952 x 415 x 1333
Package (W×D×H)	inch	43-1/8 x 19-1/2 x 58-1/4
	mm	1095 x 495 x 1480
Net/Gross Weight	lbs	242 / 275
	kg	110.2 / 124.8

EFFICIENCY

Cooling		Heating	
SEER2	14.5	HSPF2-4	8.1
EER2	8.8	COP	2.76

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	53,000
Min/Max Capacity	17,600~53,400
Moisture Removal(L/h)	8.5
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	58,000
1. @ 47°F Min/Max Capacity	21,200~59,000
2. @ 17°F Rated	36,000
3. @ 5°F Rated: Capacity / COP	43000/1.83
3. @ 5°F Max: Capacity	43,000
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

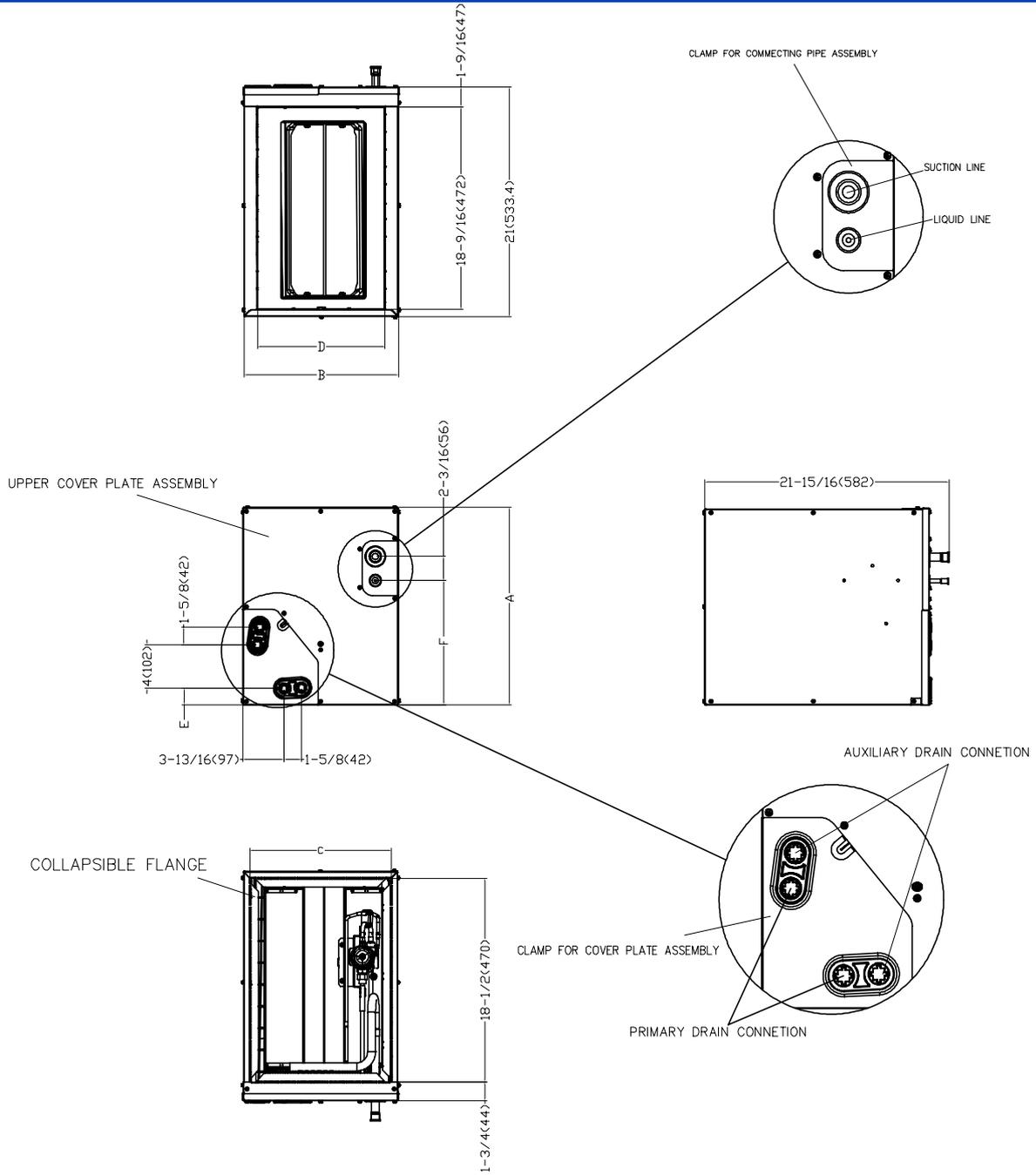
ELECTRICAL

Indoor Power Supply	24V,60Hz,1Ph	
Indoor MCA 115V/(208/230V)	/	
Indoor MOP	/	
Outdoor Power Supply	208/230,60Hz,1Ph	
Outdoor MCA	40	
Outdoor MOP	40	
Communication Wiring	AWG 20-2	
Compressor RLA	31	
Outdoor Fan Motor RLA	1.2	
Outdoor Fan Motor W	/	
Indoor Fan Motor RLA	/	
Indoor Fan Motor W	/	
System Power Input @ Cooling (W)	6020(1,520 ~ 6,040)	
System Power Input @ Heating (W)	6,159(1,580 ~6,750)	
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)	W: Fan motor rated output (W)	

PIPING

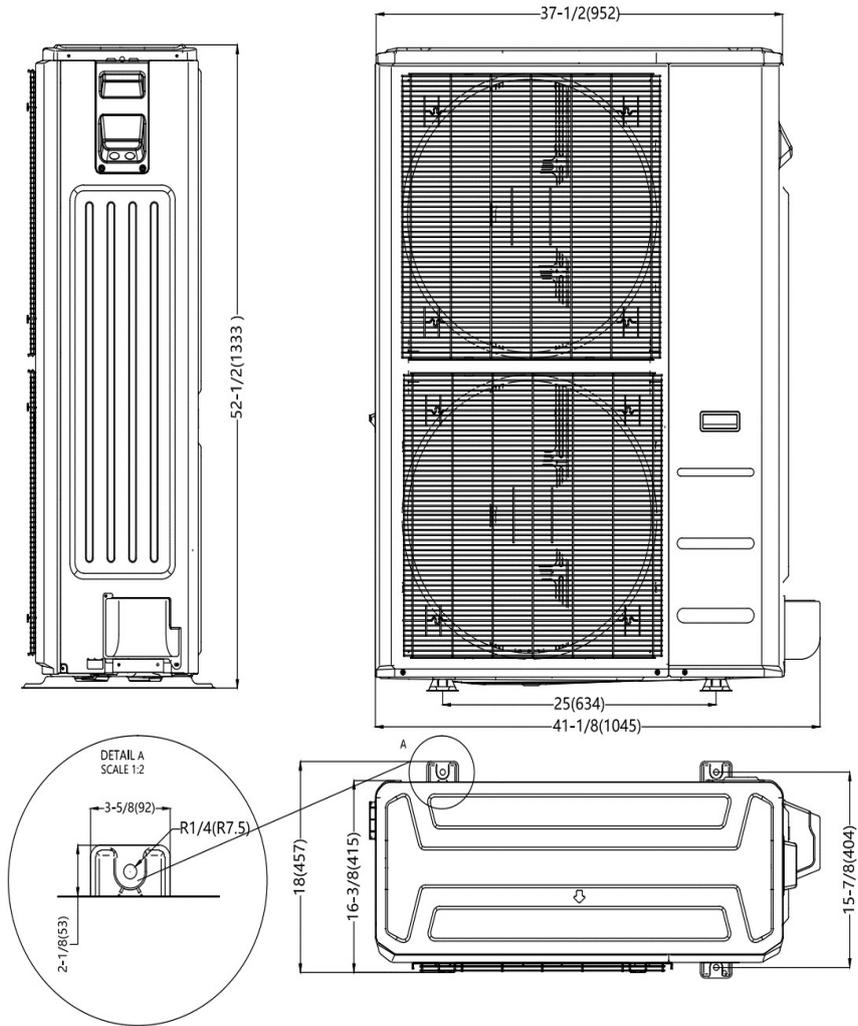
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	183.42(5.2)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

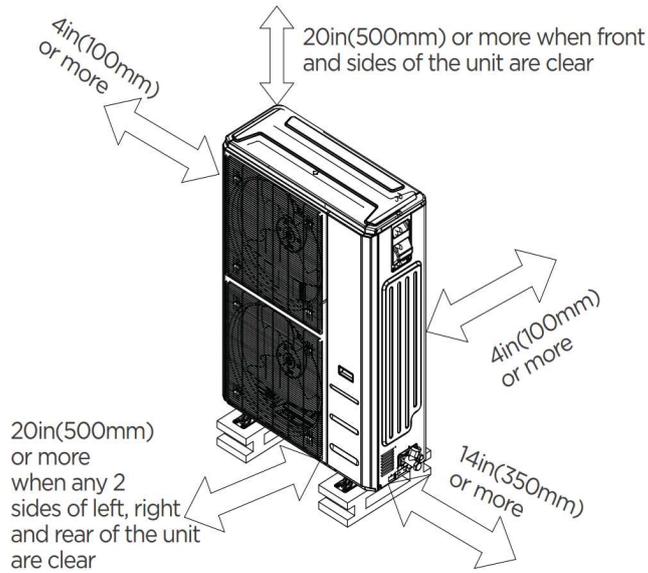


Model		CS-HM24BAAU2		CS-HM24BAAU1		CS-HM36BAAU1		CS-HM36BAAU2		CS-HM36BAAU3		CS-HM60BAAU4	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	18	457	18	457	23 ^{-5/16}	592	23 ^{-9/16}	599	24	611	28	711
B	Model Width	17 ^{-1/2}	445	14 ^{-1/2}	368	14 ^{-1/2}	368	17 ^{-1/2}	445	21	534	24 ^{-1/2}	622
C	Supply Air Opening Width	16 ^{-3/16}	411	13 ^{-1/4}	336	13 ^{-1/4}	336	16 ^{-3/16}	411	19 ^{-3/4}	502	23 ^{-1/4}	591
D	Return Air Opening Width	14 ^{-15/16}	380	11 ^{-15/16}	303	11 ^{-15/16}	303	14 ^{-15/16}	380	19 ^{-1/2}	498	23 ^{-1/8}	587
E	Condensate Drains Height	1 ^{-7/16}	1 ^{-7/16}	1 ^{-7/16}	38	1 ^{-7/16}	38	1 ^{-7/16}	38	2 ^{-3/16}	55	2 ^{-3/16}	55
F	Liquid Line Height	11 ^{-3/8}	290	11 ^{-3/8}	290	17 ^{-15/16}	455	16 ^{-3/8}	417	17 ^{-1/2}	445	21 ^{-7/16}	545

Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Third-Party 24V Thermostat