

Submittal Data Sheet

CS-HM24BAAU1 -- Indoor A-Coil

CU-HM24BAHU -- 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 Noise Level (Turbo/H/M/L/Si) (dBA)		-
Dimension (W×D×H)	inch	14.49 x 21 x 17.99
	mm	368 x 533.4 x 457
Package (W×D×H)	inch	17.52 x 25.39 x 20.67
	mm	445 x 645 x 525
Net/Gross Weight	lbs	41.89/49.60
	kg	19/22.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,766
Outdoor Noise Level (dBA)		60
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.5
	mm	890 x 342 x 673
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995 x 398 x 740
Net/Gross Weight	lbs	101.41/109.13
	kg	46/49.5

EFFICIENCY

Cooling		Heating	
SEER2	16	HSPF2-4	9.5
EER2	10	COP	3.2

PERFORMANCE of Cooling

Cooling (Btu/hr)

Rated Capacity	24,000
Min/Max Capacity	7,900 ~ 27,600
Moisture Removal(L/h)	2.89
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	25,000
1. @ 47°F Min/Max Capacity	6,500 ~ 30,000
2. @ 17°F Rated	19,700
3. @ 5°F Rated: Capacity / COP	21,000/1.8
3. @ 5°F Max: Capacity	21,000
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

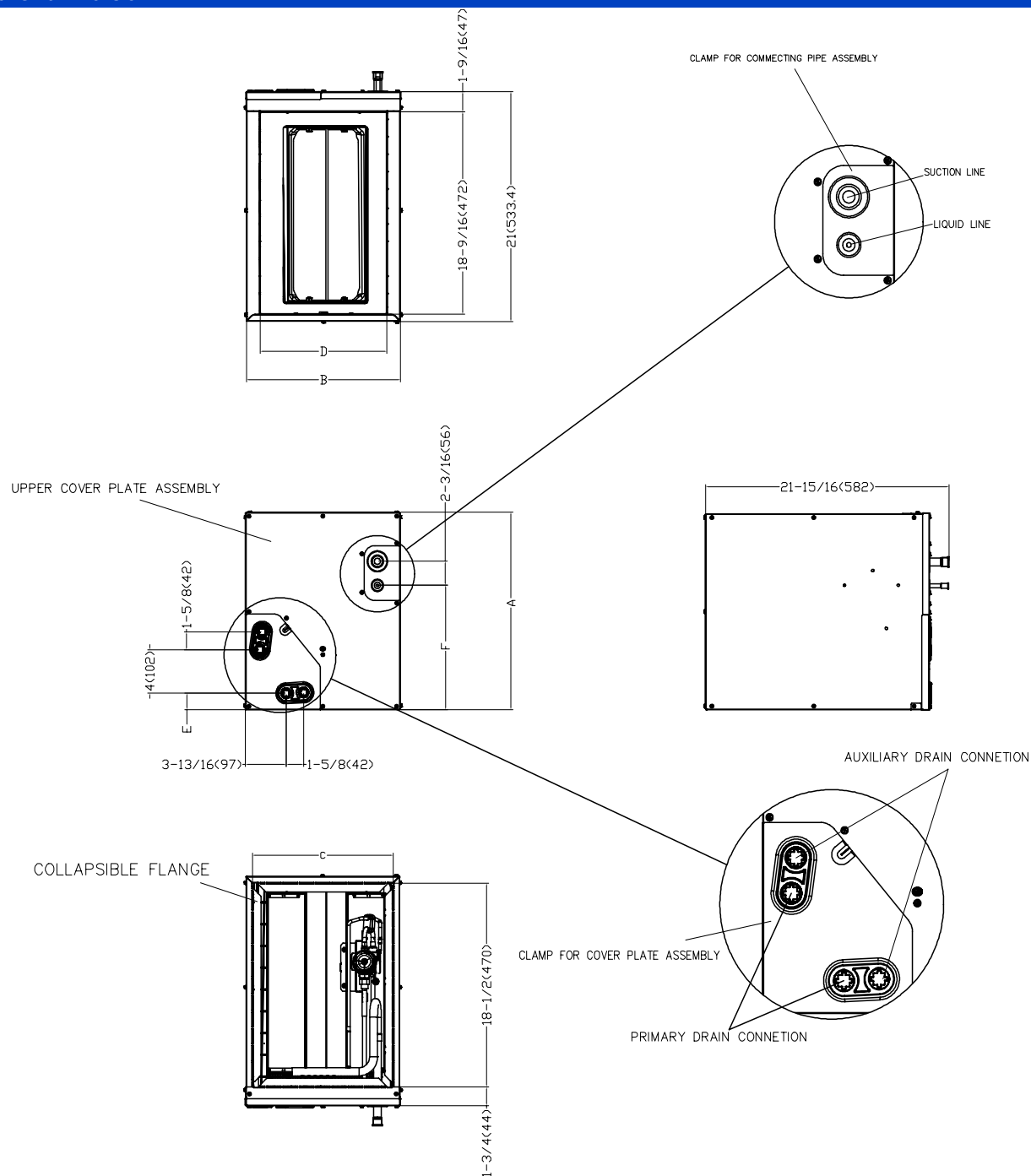
ELECTRICAL

Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	-
Indoor MOP	-
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	19
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	14
Outdoor Fan Motor RLA	1
Outdoor Fan Motor W	-
Indoor Fan Motor RLA	-
Indoor Fan Motor W	-
System Power Input @ Cooling (W)	2,400(680 ~ 2,890)
System Power Input @ Heating (W)	2,290(330 ~ 2,900)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

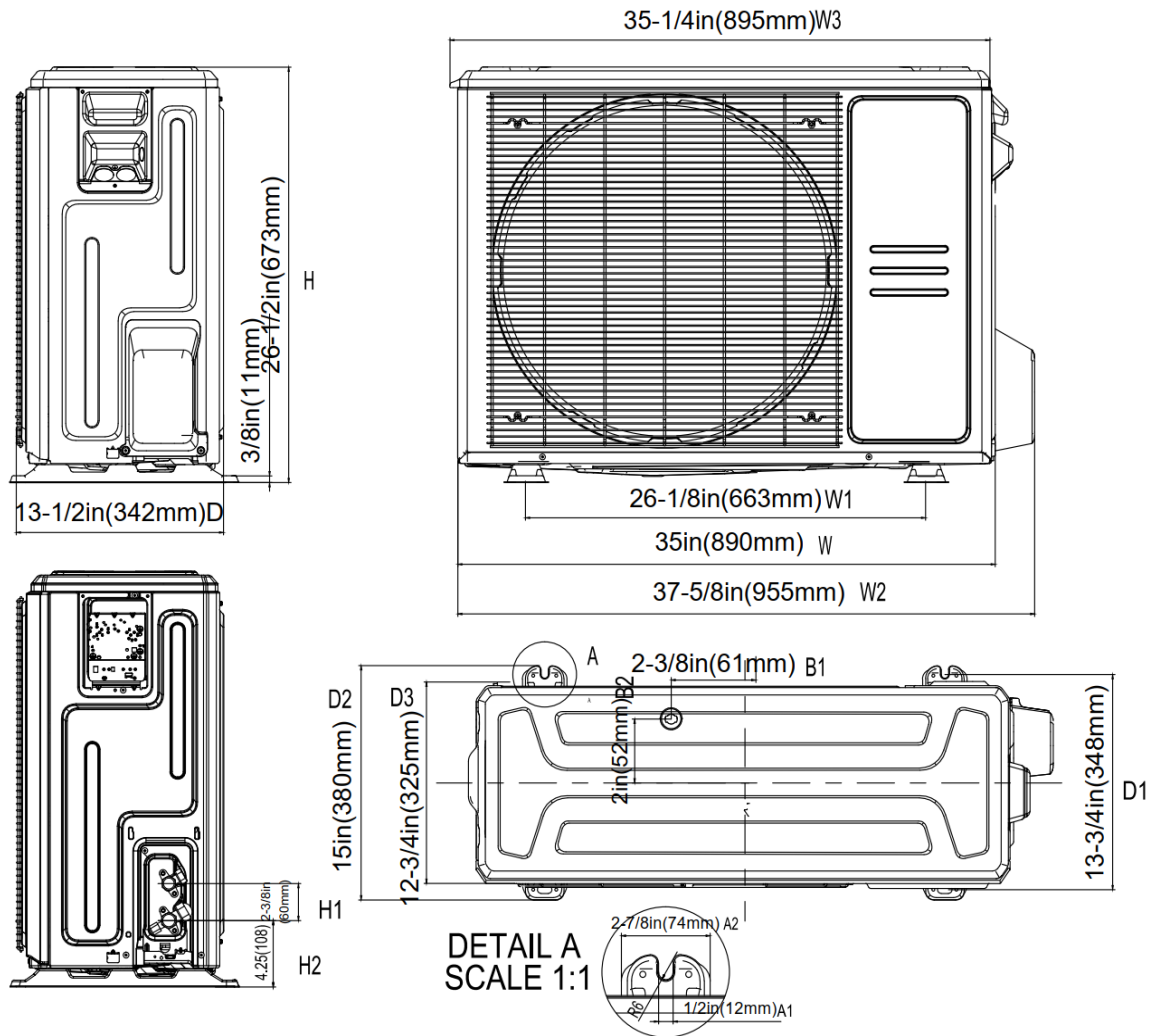
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	74.08(2.1)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

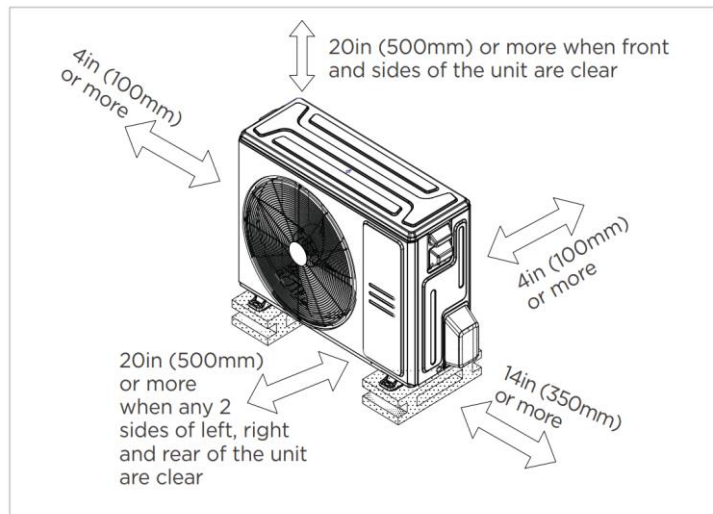


Model	Dimensions	CS-HM24BAAU2		CS-HM24BAAU1		CS-HM36BAAU1		CS-HM36BAAU2		CS-HM36BAAU3		CS-HM60BAAU4	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	18	457	18	457	23 ^{-5/16}	592	23 ^{-9/16}	599	24	611	28	711
B	Model Width	17 ^{-1/2}	445	14 ^{-1/2}	368	14 ^{-1/2}	368	17 ^{-1/2}	445	21	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}	38	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



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

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