

Submittal Data Sheet

CS-HM36BAAU3 -- Indoor A-Coil

CU-HM30BAHU -- 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	21 × 21 × 24
	mm	534 × 533 × 611
Package (W×D×H)	inch	20-1/2 × 26-1/8 × 26-3/8
	mm	610 × 665 × 685
Net/Gross Weight	lbs	64 / 74
	kg	29.2 / 33.6

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		MTH356UKRC8FQL
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1300
Refrigerant Oil		HAF68D1A
Outdoor Air Flow (Max) (CFM)		3,002
Outdoor Noise Level (dBA)		64
Dimension (W×D×H)	inch	37-1/4 × 16-1/8 × 31-7/8
	mm	946 × 410 × 810
Package (W×D×H)	inch	42-7/8 × 19-5/8 × 34-7/8
	mm	1090 × 500 × 885
Net/Gross Weight	lbs	164 / 175
	kg	74.4 / 79.2

EFFICIENCY

Cooling		Heating	
SEER2	16	HSPF2-4	10.0
EER2	10	COP	3.37

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	29,000
Min/Max Capacity	13,900~37,900
Moisture Removal(L/h)	3.7
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	32,000
1. @ 47°F Min/Max Capacity	13,00~40,000
2. @ 17°F Rated	25,000
3. @ 5°F Rated: Capacity / COP	33000/1.9
3. @ 5°F Max: Capacity	33,000
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

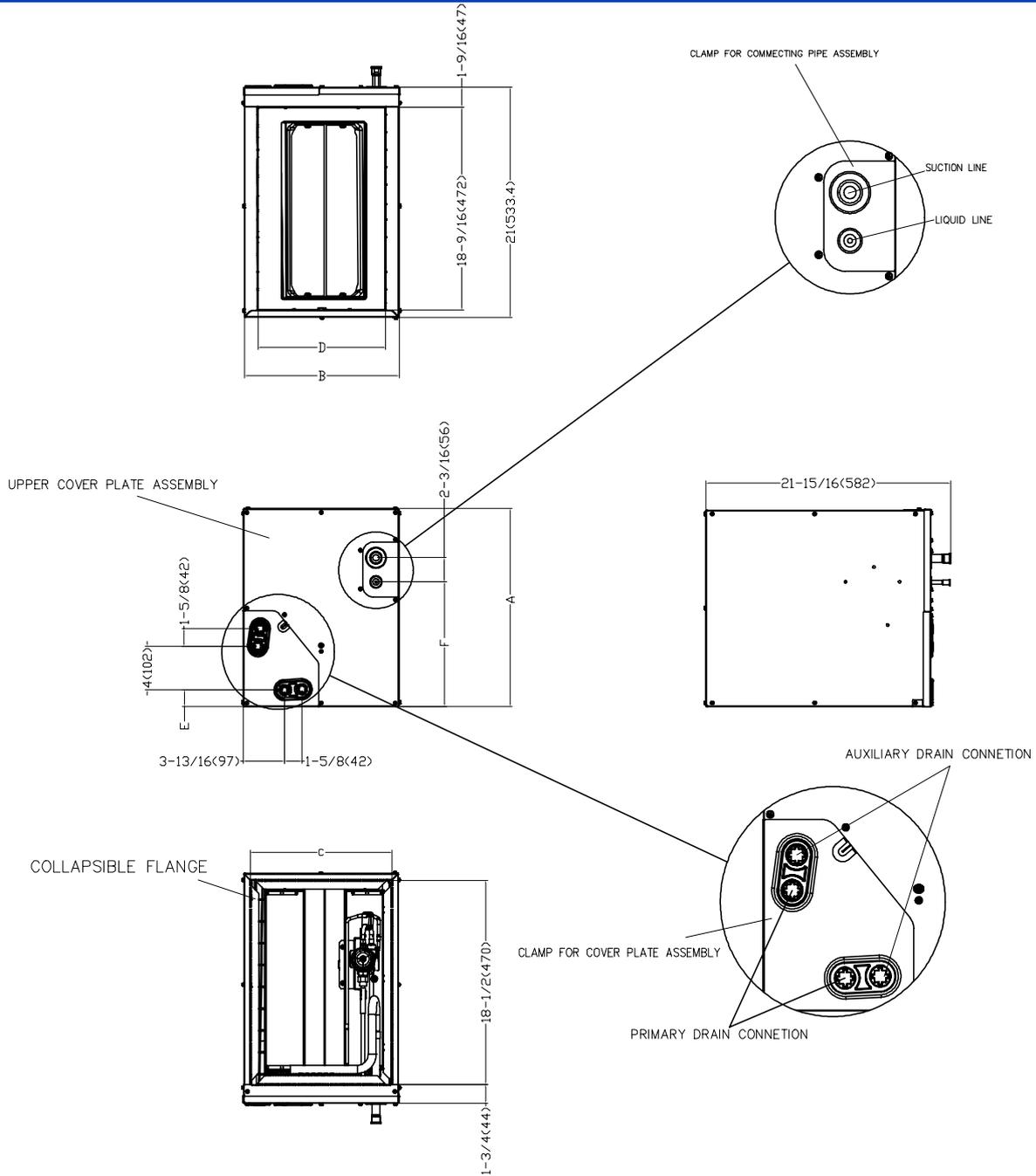
ELECTRICAL

Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	29.5
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	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	2900(1,160 ~ 3,740)
System Power Input @ Heating (W)	2780(1,088~3,482)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

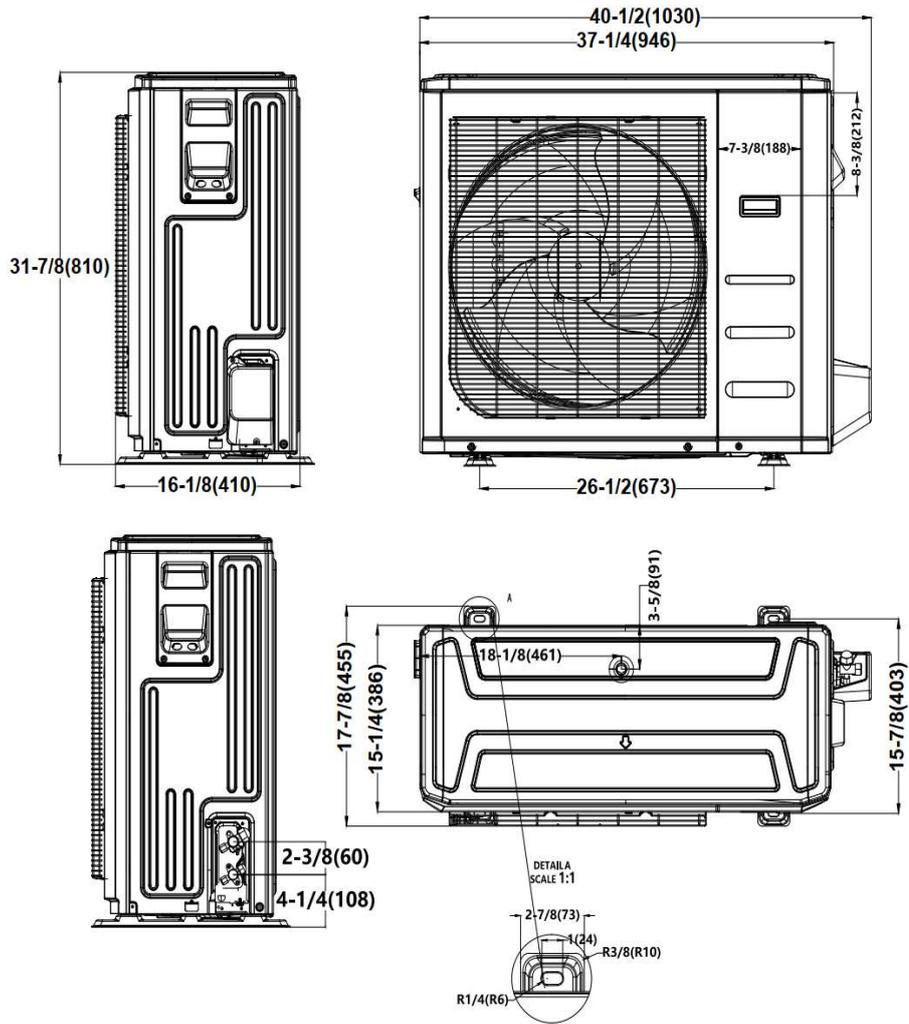
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	105.82(3)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

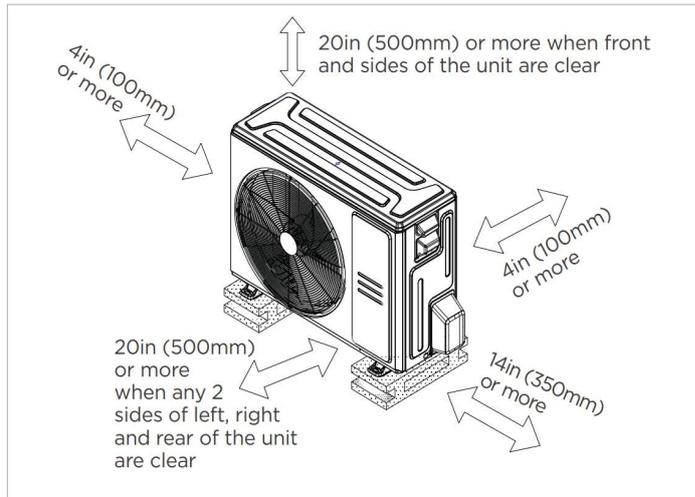


Model		CS-HM24BAAU2		CS-HM24BAAU1		CS-HM36BAAU1		CS-HM36BAAU2		CS-HM36BAAU3		CS-HM60BAAU4	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	18	457	18	457	23- ⁵ / ₁₆	592	23- ⁹ / ₁₆	599	24	611	28	711
B	Model Width	17- ¹ / ₂	445	14- ¹ / ₂	368	14- ¹ / ₂	368	17- ¹ / ₂	445	21	534	24- ¹ / ₂	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



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