

Submittal Data Sheet

CS-HM24BAAU1 -- Indoor A-Coil
 CU-HM18BAHU -- Outdoor Extreme Heat Pump



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 (WxDxH)	inch	14.49 x 21 x 17.99
	mm	368 x 533.4 x 457
Package (WxDxH)	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)	58	
Dimension (WxDxH)	inch	35.04 x 13.46 x 26.5
	mm	890 x 342 x 673
Package (WxDxH)	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	16.1	HSPF2-4	9.5
EER2	11.7	COP	3.3

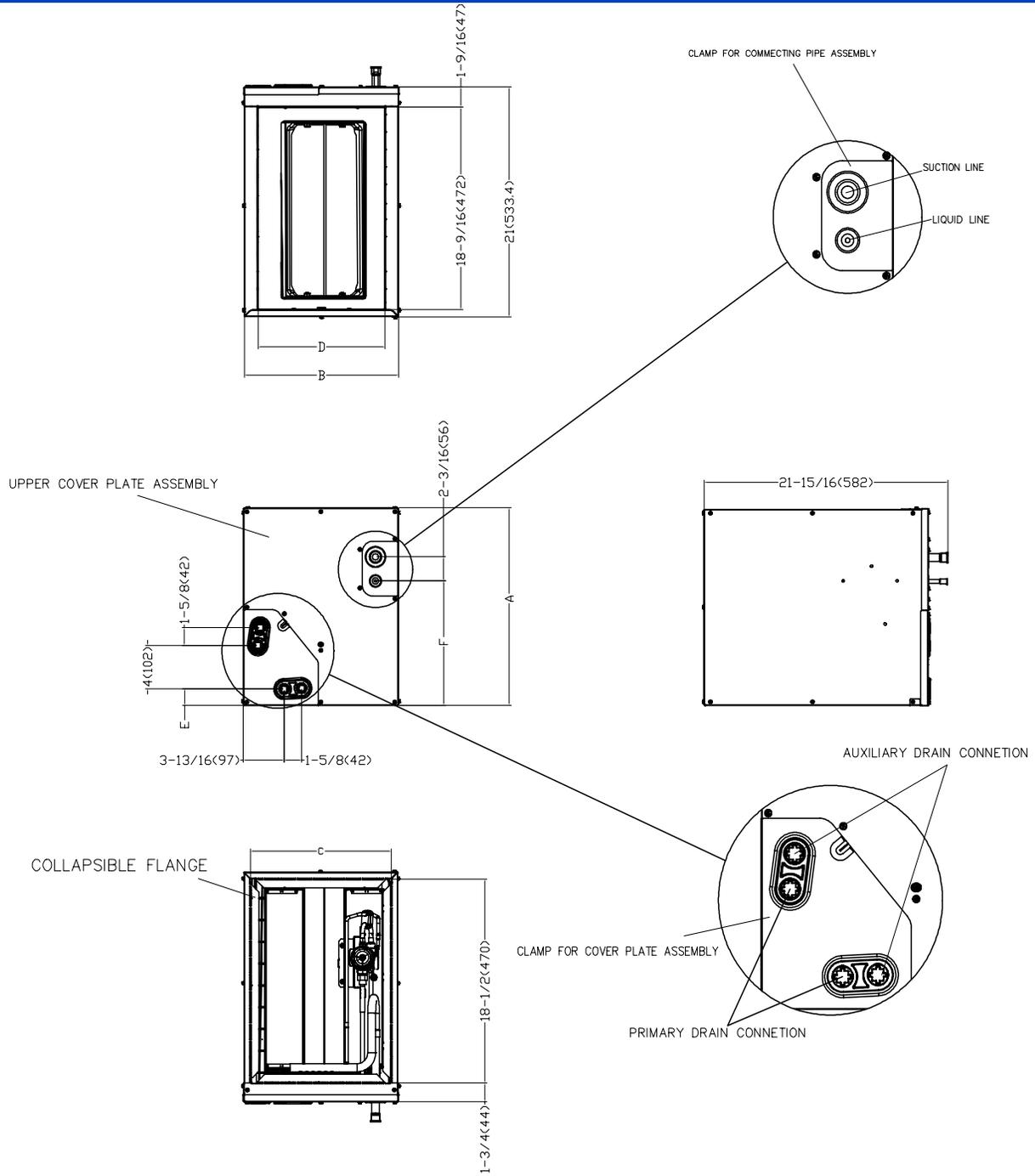
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	5,600 ~ 22,800
Moisture Removal(L/h)	2.05
Standard Operating Range(°F/C)	-22~122(-30~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	19,000
1. @ 47°F Min/Max Capacity	5,600 ~ 22,800
2. @ 17°F Rated	15,200
3. @ 5°F Rated: Capacity / COP	18,000/2.06
3. @ 5°F Max: Capacity	18,000
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	16
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	10.5
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	-
Indoor Fan Motor RLA	-
Indoor Fan Motor W	-
System Power Input @ Cooling (W)	1,538(530 ~ 2,120)
System Power Input @ Heating (W)	1,687(350 ~ 2,040)
MCA: Min. circuit amps (A)	MOC: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

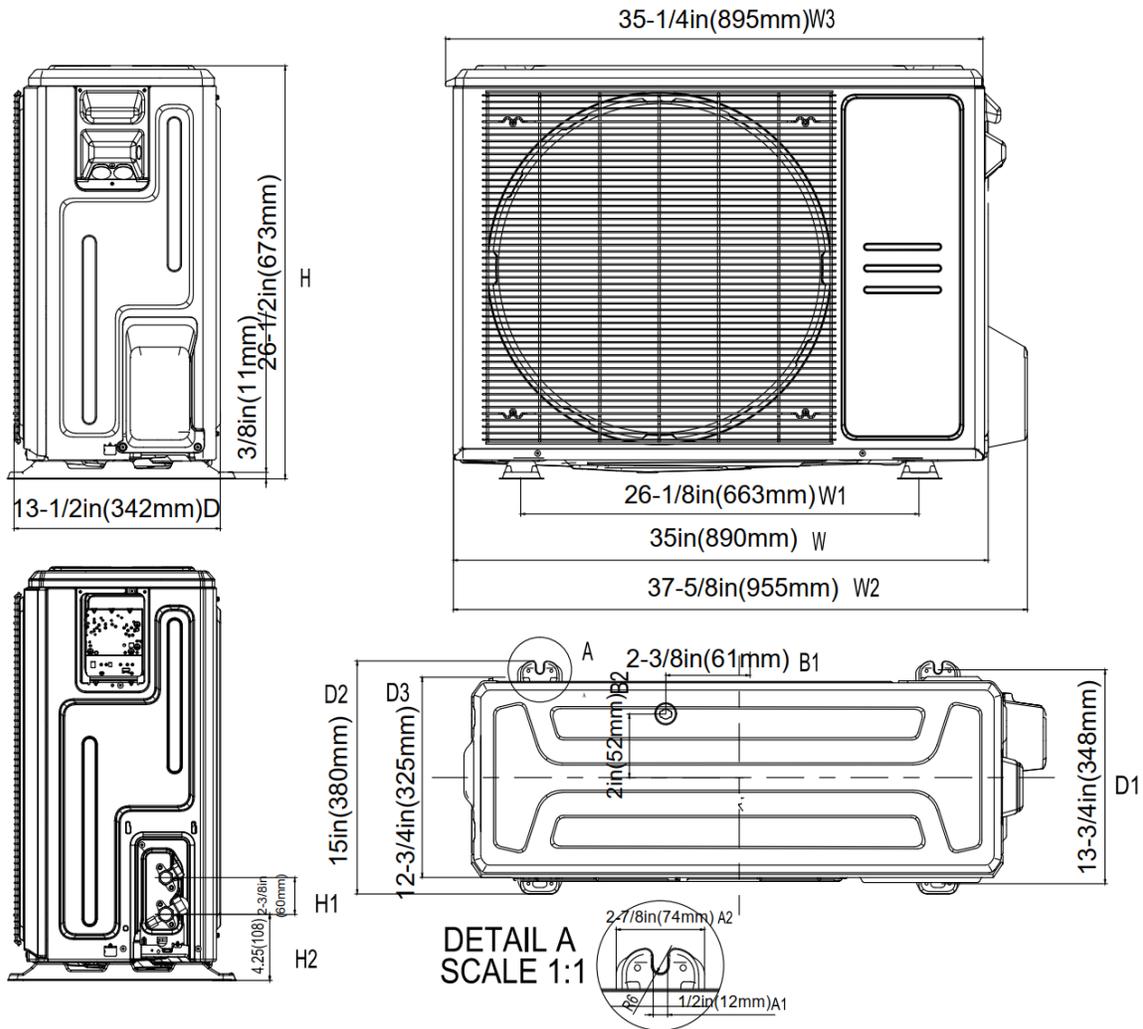
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	98(30)
Max. Height Difference(ft/m)	66(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	74.08(2.1)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

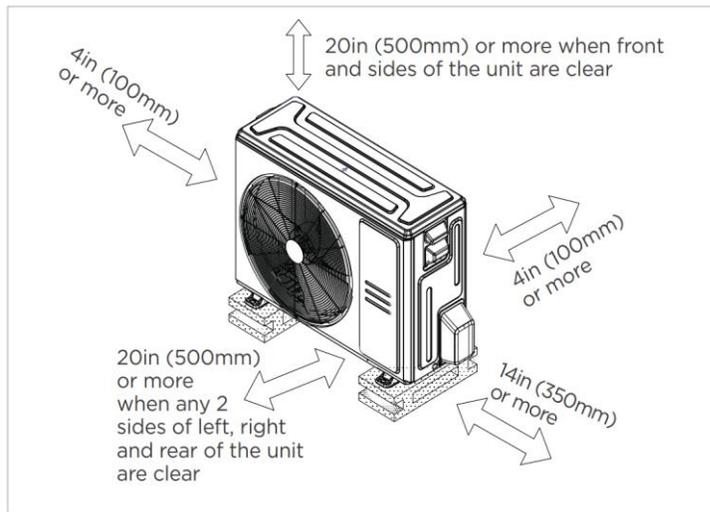


Dimensions	Model	CS-HM24BAAU2		CS-HM24BAAU1		CS-HM36BAAU1		CS-HM36BAAU2		CS-HM36BAAU3		CS-HM60BAAU4	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	18	457	18	457	23 ^{-5/16}	592	23 ^{-9/16}	599	24	611	28	711
B	Model Width	17-1/2	445	14-1/2	368	14-1/2	368	17-1/2	445	21	534	24-1/2	622
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