ComfortStar®

SUBMITTAL DATA SHEET

Model Number: CPH3H-36CD(O) (37A) / AC3-3636C-SG3 (32Y)

Air Handler Heat Pump System						
7.11.71.11.11						
Location:	Approval:					
Engineer:	Date:					
Submitted to:	Construction:					
Submitted by:	Unit #:					
Reference:	Drawing #:					



	INDOOR SP	ECIFICATION				
Dimension	inch	21 x 21 x 24				
(W×D×H)	mm	534 × 533 × 611				
Package inch	inch	20-1/2 x 26-1/8 x 26-3/8				
(W×D×H) mm		610 × 665 × 68				
	lbs	64 / 74				
Net/Gross Weight	kg	29.2 / 33.6				

	OUTDOOR S	SPECIFICATION			
Compressor Type		TWIN-ROTARY			
Compressor Model		EKPQ420D1UMUA			
Refrigerant		R454B			
Refrigerant Oil Charg	e(mL)	1460			
Refrigerant Oil		VG75			
Outdoor Air Flow (Max) (CFM)		3,002			
Outdoor Noise Level	(dBA)	64			
Dimension	inch	38-9/16 x 16-3/8 x 38-3/8			
(W×D×H)	mm	980 × 415 × 975			
Package	inch	45-1/16 x 19-11/16 x 42-1/2			
(W×D×H) mm		1145 × 500 × 1080			
N-+/C W-i-h+	lbs	204 / 235			
Net/Gross Weight	kg	92.6 / 106.7			

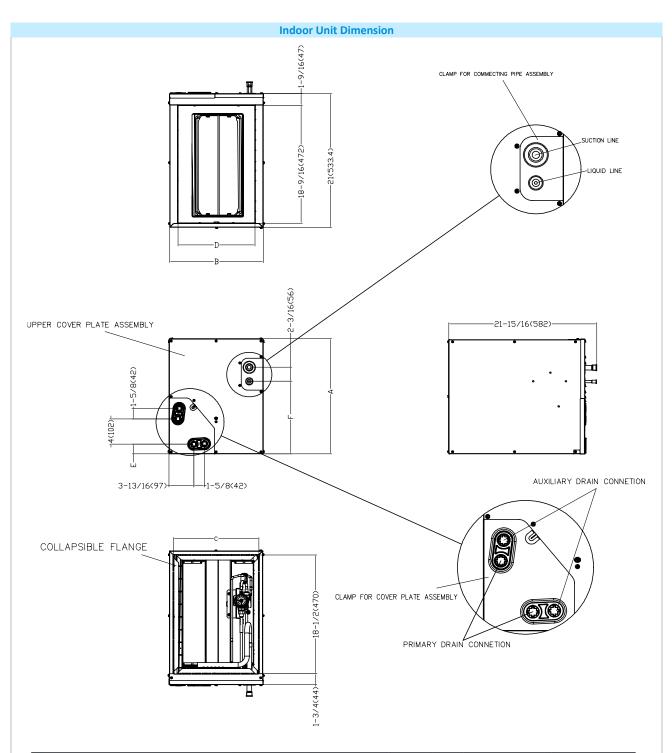
	EFFIC	IENCY	
Cooling		Hea	ting
SEER2	15.8	HSPF2-4	9.4
EER2	10.7	СОР	3.3

PERFORMAN	NCE of Cooling
Cooling	g (Btu/hr)
Rated Capacity	36,000
Min/Max Capacity	12,100~41,000
Moisture Removal(L/h)	4.91
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

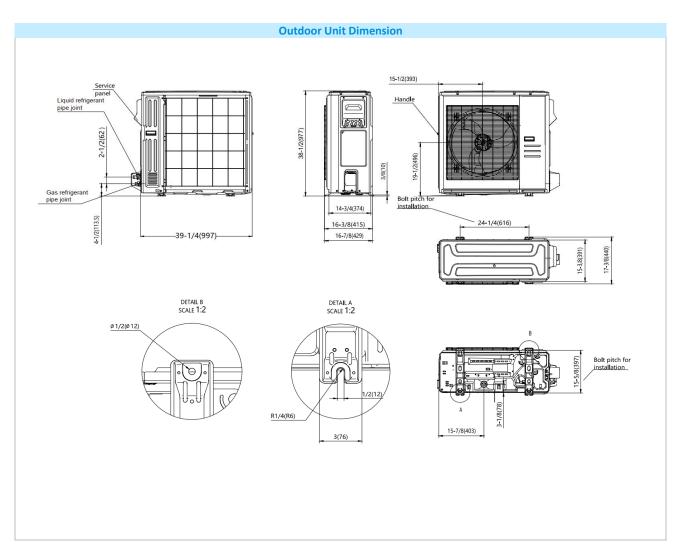
PERFORMANCE of Heating						
Heatin	g (Btu/hr)					
1. @ 47°F Rated	38,000					
2. @ 47°F Min/Max Capacity	11,500~46,000					
3. @ 17°F Rated	29,200					
4. @ 5°F Rated: Capacity / COP	36,000/1.9					
5. @ 5°F Max: Capacity	36,000					
Standard Operating Range(°F/°C)	-22~75(-30~24)					
1. Rated Heating 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	Indoor: 70°F DB/60°F WB					
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB					

ELECT	RICAL
Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	29
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)	3,364(1,020 ~ 4,520)
System Power Input @ Heating (W)	3,375(800 ~4,540)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

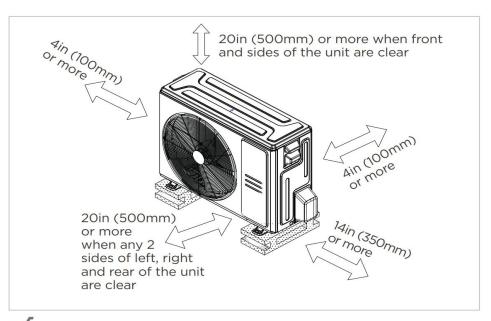
PIPIN	NG
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	126.99(3.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared



Dimen	Dimensions Model		MVBM- 24B18T3N10		MVBM- 24A18T3N10		MVBM- 36A24T4N10		MVBM- 36B24T4N10		MVBM- 36C24T4N10		MVBM- 60D28T6N10	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
А	Model Height	18	457	18	457	23-5/16	592	23-9/16	599	24	611	28	711	
В	Model Width	17-1/2	445	14-1/2	368	14-1/2	368	17-1/2	445	21	534	24-1/2	622	
С	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	
Е	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	



Installation Instruction For Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.

Features 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:AWC-8P-LC-WIFI Third-Party 24V Thermostat