ComfortStar®

SUBMITTAL DATA SHEET

Model Number: CPH3-36CD(O) (27G) / AC3-3636B-SG3

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



INDOOR SPECIFICATION				
Dimension	inch	17-1/2 x 21 x 23-1/2		
(W×D×H) mm	445 × 533 × 599			
Package inch (W×D×H) mm	inch	20-1/2 x 26-1/8 x 26-3/8		
	520 × 665 × 670			
Net/Gross Weight	lbs	59.5 / 68		
	kg	27 / 30.9		

	OUTDOOR SP	ECIFICATION			
Compressor Type		TWIN-ROTARY			
Compressor Model		EKPQ420D1UMUA			
Refrigerant		R454			
Refrigerant Oil Charg	e(mL)	1460			
Refrigerant Oil		VG75			
Outdoor Air Flow (Max) (CFM)		3,002			
Outdoor Noise Level	(dBA)	64			
Dimension inch (W×D×H) inch	inch	38-9/16 x 16-3/8 x 38-3/8			
	mm	980 × 415 × 975			
Package	inch	45-1/16 x 19-11/16 x 42-1/2			
(W×D×H)	mm	1145 × 500 × 1080			
Net/Gross Weight	Ibs	204 / 235			
	kg	92.6 / 106.7			

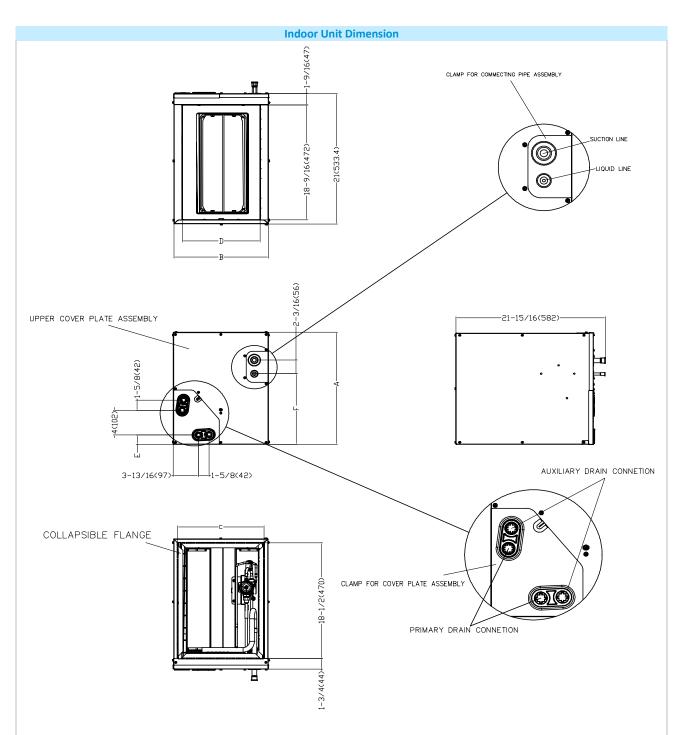
EFFICIENCY					
Cooling		Hea	ting		
SEER2	15.8	HSPF2-4	9.4		
EER2	10.7	СОР	3.3		

PERFORMANCE of Cooling				
Cooling (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				
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB			
	Outdoor: 95°F DB/75°F WB			

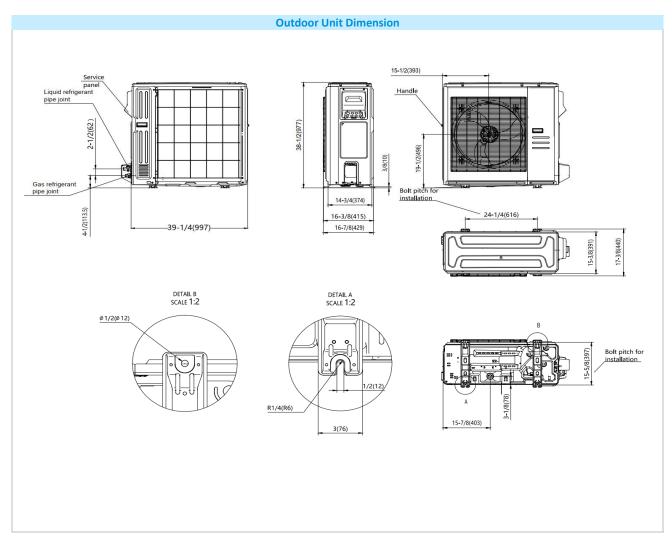
PERFORMANCE of Heating						
Heating (Btu/hr)						
1. @ 47°F Rated	38,000					
2. @ 47°F Min/Max Capacity	11,500~46,000					
3. @ 17°F Rated	29,200					
4. @ 5°F Rated: Capacity / COP	36,000/1.9					
5. @ 5°F Max: Capacity	36,000					
Standard Operating Range(°F/°C)	-22~75(-30~24)					
1. Rated Heating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

ELECTRICAL					
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				

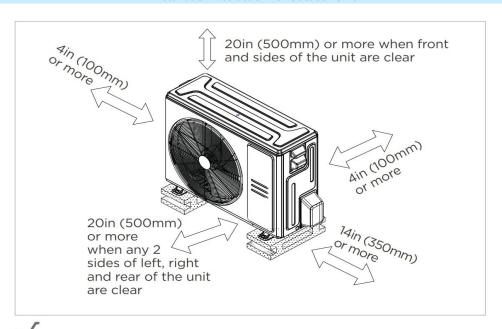
PIPING			
Throttle type(Indoor)	EXV		
Throttle type(Outdoor)	EXV		
Liquid Size	9.52mm(3/8in)		
Gas Size	19mm(3/4in)		
Max. Piping Length(ft/m)	246(75)		
Max. Height Difference(ft/m)	98(30)		
Max. Pre-charged Length(ft/m)	24.6(7.5)		
Refrigerant Pre-charged Amount(oz/kg)	126.99(3.6)		
Additional Charge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



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.

Feature	es
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 	