

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

Set Code	22023110000898
Indoor unit code	22023111000250
Outdoor unit code	22023116000161
Set Model	VCD24SA-1-CY
Indoor unit model	B-VCD24SA-1-CY
Outdoor unit model	A-VCD24SA-1-CY
Certified	AHRI UL



SYSTEM PERFORMANCE DATA			
Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph,	60Hz
Voltage Range	(V)		187-253
Electrical			
Minimum circuit ampacity(Outdoor)	(A)		20.5
Max.fuse(Outdoor)	(A)		35.0
Connection wiring		14AWG*2	Stranded, shielded
Cooling			
Capacity	(Btu/h)	24000(6400-27000)	
Power Input	(W)	2050(740-2450)	
Current	(A)	9.1(5.3-11)	
SEER2	(Btu/W)		17.4
EER2	(Btu/W)		11.7
Heating			
Capacity	(Btu/h)	24000(10100-31000)	
Power Input	(W)	2100(660-2900)	
Current	(A)	9.3(4.87-12.90)	
HSPF2-4	(Btu/W)		10.0
HSPF2-5	(Btu/W)		8.0
COP	W/W		3.35
Heat at 17F(H32)	(Btu/h)		19200
Heat at 5F(H42)	(Btu/h)		22600
COP at 5F(H42)	W/W		1.91

INDOOR UNIT DATA			
Indoor fan motor			
Model			ZKFD-250-8-1
Qty			1
Input	(W)		/
Output	(W)		/
RLA	(A)		3.0
Minimum circuit ampacity(Indoor)	(A)		4.0
Max.fuse(Indoor)	(A)		15
Speed(Hi/Mi/Lo)	(r/min)		/
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	823.53/758.82/694.12/629.41	
Indoor noise level (Hi/Med/Lo)	[dB(A)]		39/36/33
Dehumidification			
	(L/H)		1.98
Indoor unit			
Dimension (WxDxH)	(inch)	21.02x17.52x45.00	
	(mm)	534x445x1143	
Packing(WxDxH)	(inch)	26.57x20.87x48.62	
	(mm)	675x530x1235	
Net/Gross weight	(lbs.)	105.60/127.43	
	(kg)	47.9/57.8	
Accessories			
Adaptor for welding(3/4")	Qty		1
Adaptor for welding(3/8")	Qty		1

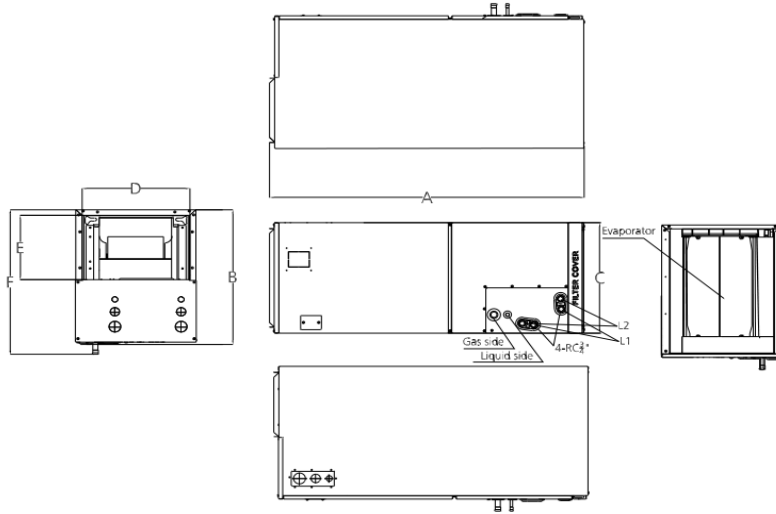
REFRIGERANT PIPE DATA			
Throttle type	Indoor unit	EEV for cooling	
	Outdoor unit	EEV for heating	
Design pressure	(PSIG)		550/340
Refrigerant Type			R410A
Refrigerant charge	oz		102.32
Refrigerant precharge	(ft)		25.0
	(m)		7.5
Additional charge for each ft	(oz/ft)		0.69
Additional charge for each m	(g/m)		65.0
Liquid side/ Gas side(indoor)	(inch)	3/8" / 3/4"	
	(mm)	9.52/19	
Liquid side/ Gas side(outdoor)	(inch)	3/8" / 3/4"	
	(mm)	9.52/19	
Max. pipe length	(ft)		164.0
	(m)		50.0
Max. difference in level	(ft)		82.0
	(m)		25.0
Connection method			Flared
Indoor(cooling)	(Deg. °F)		60~90
	(Deg. °C)		16~32
Indoor(heating)	(Deg. °F)		32~86
	(Deg. °C)		0~30
Outdoor(cooling)	(Deg. °F)		5~122
	(Deg. °C)		-15~50
Outdoor(heating)	(Deg. °F)		-22~75
	(Deg. °C)		-30~24

OUTDOOR UNIT DATA			
Compressor			
Type			Twin-ROTARY
Model			KTM240D57UMT
Brand			GMCC
Capacity	(Btu/h)		26409
Input	(W)		2085
Rated current (RLA)	(A)		15
Refrigerant oil/oil charge	(ml)		ESTER OIL VG74 670
Outdoor fan motor			
Model			ZKFN-120-8-2
Qty			1
Input	(W)		150.0
Output	(W)		120
RLA	(A)		1.4
Speed	(r/min)		950/700/500/400
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)		3000
Outdoor noise level	[dB(A)]		62.0
Outdoor unit			
Dimension (WxDxH)	(inch)	37.24x16.14x31.89	
	(mm)	946x410x810	
Packing (WxDxH)	(inch)	42.91x19.69x34.84	
	(mm)	1090x500x885	
Net/ Gross weight	(lbs.)	136.69/145.50	
	(kg)	62/66	
Accessories			
Adaptor for welding(3/4")	Qty		1
Adaptor for welding(3/8")	Qty		1

****Verify Rating Plate Information
 Prior to Installation.**

Minimum Circuit Ampacity and Maximum Fuse Values
 May Have Changed from Original Specifications.

Indoor unit dimension



Model	Unit	Dimensions(mm)						Drain hole	
		A	B	C	D	E	F	L1	L2
18k~24k	mm	1143	534	445	400	260	585	Main drain	Overflow drain
	inch	45	21	17-1/2	15-3/4	10-1/4	23		
30k-48k	mm	1245	534	534	490	260	585		
	inch	49	21	21	19-5/16	10-1/4	23		
60k	mm	1346	534	622	580	260	585		
	inch	53	21	24-1/2	22-7/8	10-1/4	23		

Outdoor unit dimension

