

**SUBMITTAL DATA SHEET**



**AHU Heat Pump System**

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
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<b>Set Code</b>	22023110000891
Indoor unit code	22023111000272
Outdoor unit code	22023116000141
<b>Set Model</b>	VCD48SA-1-CY
Indoor unit model	B-VCD48SA-1-CY
Outdoor unit model	A-VCD48SA-1-CY
<b>Certified</b>	AHRI UL



**SYSTEM PERFORMANCE DATA**

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph, 60Hz
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity(Outdoor)	(A)	40.0
Max.fuse(Outdoor)	(A)	50.0
Connection wiring		14AWG*2 Stranded, shielded
<b>Cooling</b>		
Capacity	(Btu/h)	47000(15000~48000)
Power Input	(W)	5731(815~5700)
Current	(A)	24.95(3.54~25.3)
SEER2	(Btu/W)	15.6
EER2	(Btu/W)	8.2
<b>Heating</b>		
Capacity	(Btu/h)	50000(11000~55000)
Power Input	(W)	4652(830~5700)
Current	(A)	21.20(3.60~26)
HSPF2.4	(Btu/W)	9.4
HSPF2.5	(Btu/W)	7.7
COP	W/W	3.15
Heat at 17F(H32)	(Btu/h)	36000
Heat at 5F(H42)	(Btu/h)	46000
COP at 5F(H42)	W/W	1.90

**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	169.31
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)	213.3
	(m)	65.0
Max. difference in level	(ft)	98.4
	(m)	30.0
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

**INDOOR UNIT DATA**

<b>Indoor fan motor</b>		
Model		ZKFD-560-8-1-1
Qty		1
Input	(W)	/
Output	(W)	/
RLA	(A)	6.0
Minimum circuit ampacity(Indoor)	(A)	7.5
Max.fuse(Indoor)	(A)	15
Speed(Hi/Mi/Lo)	(r/min)	/
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	170.59/1282.35/1094.12/905.88
Indoor noise level (Hi/Med/Lo)	[dB(A)]	50/47/43.5
<b>Dehumidification</b>		
	(L/H)	4.96
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	21.02x21.02x49.02
	(mm)	534x534x1245
Packing(WxDxH)	(inch)	26.57x24.41x52.56
	(mm)	675x620x1335
Net/Gross weight	(lbs.)	130.51/156.31
	(kg)	59.2/70.9
<b>Accessories</b>		
Adaptor for welding(3/4")	Qty	1
Adaptor for welding(3/8")	Qty	1

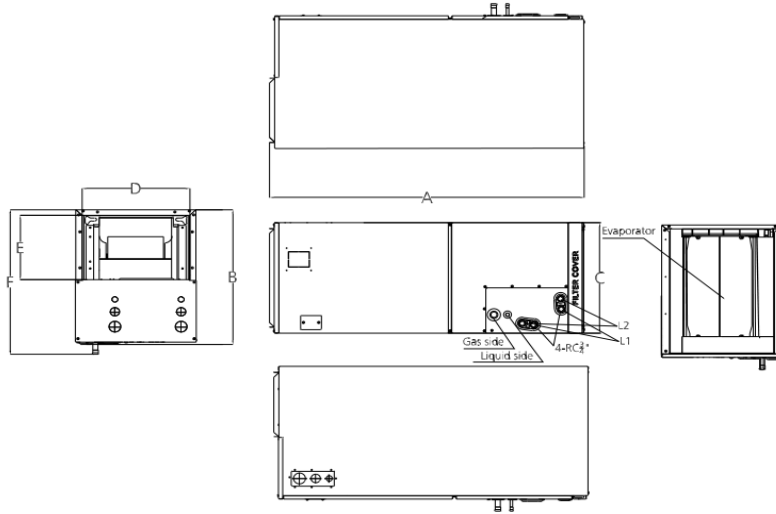
**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		ROTARY
Model		EAPQ420D1UMUA
Brand		GMCC
Capacity	(Btu/h)	44015
Input	(W)	3565 ±3%
Rated current (RLA)	(A)	33
Refrigerant oil/oil charge	(ml)	1460±15mlESTER OIL VG74
<b>Outdoor fan motor</b>		
Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.0
Output	(W)	85
RLA	(A)	1.2
Speed	(r/min)	850/750/650
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	4412
Outdoor noise level	[dB(A)]	64.0
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (WxDxH)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	220.24/248.90
	(kg)	99.9/112.9
<b>Accessories</b>		
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

