

Duct Heat Pump System		ACIQ-48CD-HH-MB / ACIQ-48ZPL-HP230B
Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____	

Set Code	22023010005843
Indoor unit code	22023011003416
Outdoor unit code	22022516001922
Set Model	
Indoor unit model	ACIQ-48CD-HH-MB
Outdoor unit model	ACIQ-48ZPL-HP230B
Certified	AHRI CSA



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)		42.0
Max.fuse(Outdoor)	(A)		50.0
Connection wiring		14AWG*2	Stranded, shielded
Cooling			
Capacity	(Btu/h)	48000(10300-53100)	
Power Input	(W)	5840(1070-6020)	
Current	(A)	26(6.58-26.29)	
SEER2	(Btu/W)	14.3	
EER2	(Btu/W)	8.2	
Heating			
Capacity	(Btu/h)	52000(11500-63600)	
Power Input	(W)	4650(690-5570)	
Current	(A)	20.5(4.78-24.3)	
HSPF2-4	(Btu/W)	10.3	
HSPF2-5	(Btu/W)	8.4	
COP	W/W	3.28	
Heat at 17F(H32)	(Btu/h)	39500	
Heat at 5F(H42)	(Btu/h)	46000	
COP at 5F(H42)	W/W	2.02	

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	148.00
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
Additional charge for each m	(g/m)	30.0
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
Liquid side/ Gas side(outdoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
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)	62~90
	(Deg. °C)	17~32
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

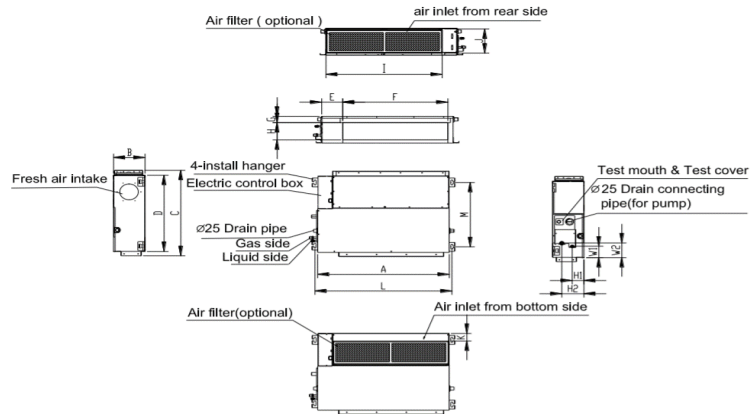
INDOOR UNIT DATA

Indoor fan motor			
Model		ZKFN-560-8-1-1	
Qty		1	
Input	(W)	560.00	
Output	(W)	560.0	
RLA	(A)	2.5	
Speed(Hi/Mi/Lo)	(r/min)	940/820/740	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	1529.41/1529.41/1117.65/735.29	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	54.5/50.5/47.5	
Dehumidification	(L/H)	4.87	
Indoor unit			
Dimension (WxDxH)	(inch)	47.24x34.41x11.81	
	(mm)	1200x874x300	
Packing(WxDxH)	(inch)	55.31x36.02x14.37	
	(mm)	1405x915x365	
Net/Gross weight	(lbs.)	119.71/141.76	
	(kg)	54.3/64.3	

OUTDOOR UNIT DATA

Compressor			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3565	
Rated current (RLA)	(A)	33	
Refrigerant oil/oil charge	(ml)	1460±15ml	ESTER OIL VG74
Outdoor fan motor			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.0	
Output	(W)	85	
RLA	(A)	1.2	
Speed	(r/min)	900/850/800/750	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	4500	
Outdoor noise level	[dB(A)]	65.0	
Outdoor unit			
Dimension (W×D×H)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (W×D×H)	(inch)	43.11x19.49x58.27	
	(mm)	1095x495x1480	
Net/ Gross weight	(lbs.)	227.07/255.73	
	(kg)	103/116	

Indoor unit dimension(internal pump)



Model (KBTu/h)	unit	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84
	inch	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6.0	23.6	7.3	2.0	29.2	14.2	3.3	5.5	3.3	3.3
18	mm	880	210	674	600	140	706	50	136	782	190	40	920	508	78	148	88	112
	inch	34.6	8.3	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	1.6	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
	inch	43.3	9.8	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	155
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	0.2	55.1	23.5	3.1	5.9	5.1	6.1
48	mm	1200	300	874	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
	inch	47.2	11.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	0.2	48.8	27.4	3.1	5.9	7.3	8.3

Outdoor unit dimension

