



SUBMITTAL DATA SHEET

Duct Heat Pump System		ACIQ-60CD-HH-MB / ACIQ-60ZPL-HP230B
Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____	

Set Code	22023010006243
Indoor unit code	22023011003834
Outdoor unit code	22023016003371
Set Model	
Indoor unit model	ACIQ-60CD-HH-MB
Outdoor unit model	ACIQ-60ZPL-HP230B
Certified	
AHRI	
CSA	



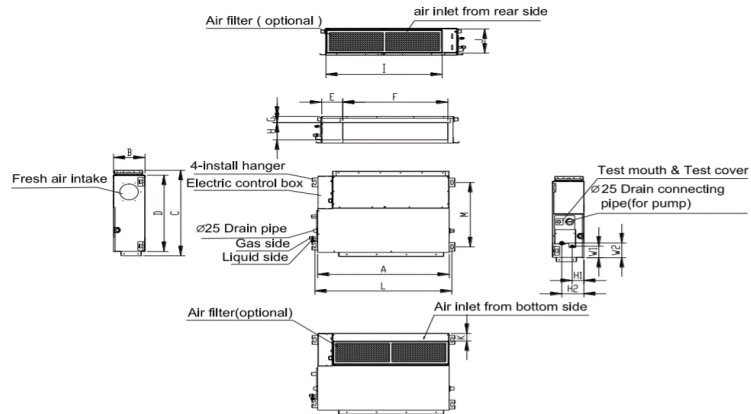
SYSTEM PERFORMANCE DATA			
Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity(Outdoor)	(A)	47.0	
Max.fuse(Outdoor)	(A)	60.0	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Capacity	(Btu/h)	55000(12000-59000)	
Power Input	(W)	5850(1200-6450)	
Current	(A)	26(5-28.5)	
SEER2	(Btu/W)	15.8	
EER2	(Btu/W)	9.4	
Heating			
Capacity	(Btu/h)	57000(12000-63600)	
Power Input	(W)	5150(1600-5250)	
Current	(A)	22.5(6.8-23)	
HSPF2-4	(Btu/W)	9.5	
HSPF2-5	(Btu/W)	7.8	
COP	W/W	3.24	
Heat at 17F(H32)	(Btu/h)	40000	
Heat at 5F(H42)	(Btu/h)	53000	
COP at 5F(H42)	W/W	1.97	

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	169.32	
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"/7/8"	
	(mm)	9.52/22	
Liquid side/ Gas side(outdoor)	(inch)	3/8"/7/8"	
	(mm)	9.52/22	
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-700-8-1	
Qty		1	
Input	(W)	420.00	
Output	(W)	700.0	
RLA	(A)	2.5	
Speed(Hi/Mi/Lo)	(r/min)	1060/910/790	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	2302.94/2155.88/1709.41/1261.76	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	54/49.5/46	
Dehumidification	(L/H)	5.84	
Indoor unit			
Dimension (WxDxH)	(inch)	55.12x33.78x18.11	
	(mm)	1400x858x460	
Packing(WxDxH)	(inch)	63.19x35.83x21.06	
	(mm)	1605x910x535	
Net/Gross weight	(lbs.)	174.60/200.40	
	(kg)	79.2/90.9	

OUTDOOR UNIT DATA			
Compressor			
Type		ROTARY	
Model		EAPQ440D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	46335	
Input	(W)	3770	
Rated current (RLA)	(A)	33.5	
Refrigerant oil/oil charge	(ml)	POE.VG75/1300	
Outdoor fan motor			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.0	
Output	(W)	85	
RLA	(A)	1.5	
Speed	(r/min)	850/700	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	4235	
Outdoor noise level	[dB(A)]	60.5	
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.)	240.74/271.61	
	(kg)	109.2/123.2	
Accessories			
Adaptor (7/8" to 3/4")	Qty	1	

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

