



SUBMITTAL DATA SHEET

Duct Heat Pump System		ACIQ-09CD-HH-MB
Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____	

Set Code	22023010005825
Indoor unit code	22023011003874
Outdoor unit code	22022016016162
Set Model	
Indoor unit model	ACIQ-09CD-HH-MB
Outdoor unit model	
Certified	



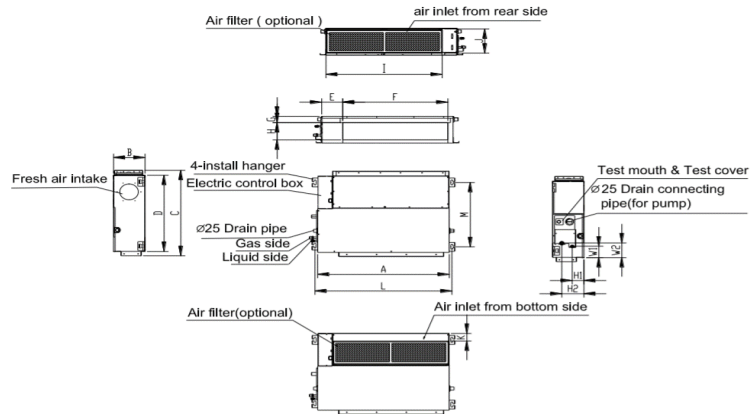
SYSTEM PERFORMANCE DATA			
Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph,	60Hz
Voltage Range	(V)		187-253
Electrical			
Minimum circuit ampacity(Outdoor)	(A)		15.0
Max.fuse(Outdoor)	(A)		15.0
Connection wiring			14AWG*4
Cooling			
Capacity	(Btu/h)	9000(2400~12500)	
Power Input	(W)	682(174~1150)	
Current	(A)	4.7(1.41~5.1)	
SEER2	(Btu/W)		20.2
EER2	(Btu/W)		13.2
Heating			
Capacity	(Btu/h)	10000(1700~15600)	
Power Input	(W)	870(176~1494)	
Current	(A)	4.0(1.44~6.59)	
HSPF2.4	(Btu/W)		12.0
HSPF2-5	(Btu/W)		9.5
COP	W/W		3.37
Heat at 17F(H32)	(Btu/h)		10100
Heat at 5F(H42)	(Btu/h)		10800
COP at 5F(H42)	W/W		1.90

INDOOR UNIT DATA			
Indoor fan motor			
Model			ZKFN-55-8-22-1
Qty			1
Input	(W)		130.00
Output	(W)		55.0
RLA	(A)		0.9
Speed(Hi/Mi/Lo)	(r/min)		1170/1030/850
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)		//352.94/282.35/176.47
Indoor noise level (Hi/Med/Lo)	[dB(A)]		33/30.5/27
Dehumidification	(L/H)		0.92
Indoor unit			
Dimension (WxDxH)	(inch)		27.56x19.92x7.87
	(mm)		700x506x200
Packing(WxDxH)	(inch)		33.86x21.26x11.22
	(mm)		860x540x285
Net/Gross weight	(lbs.)		39.02/48.28
	(kg)		17.7/21.9

REFRIGERANT PIPE DATA			
Throttle type	Indoor unit		N/A
	Outdoor unit		EXV
Design pressure	(PSIG)		550/340
Refrigerant Type			R410A
Refrigerant charge	oz		41.62
Refrigerant precharge	(ft)		25.0
	(m)		7.5
Additional charge for each ft	(oz/ft)		0.16
Additional charge for each m	(g/m)		15.0
Liquid side/ Gas side(indoor)	(inch)		1/4"/3/8"
	(mm)		6.35/9.52
Liquid side/ Gas side(outdoor)	(inch)		1/4"/3/8"
	(mm)		6.35/9.52
Max. pipe length	(ft)		82.0
	(m)		25.0
Max. difference in level	(ft)		32.8
	(m)		10.0
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)		-22~122
	(Deg. °C)		-30~50
Outdoor(heating)	(Deg. °F)		-22~75
	(Deg. °C)		-30~24

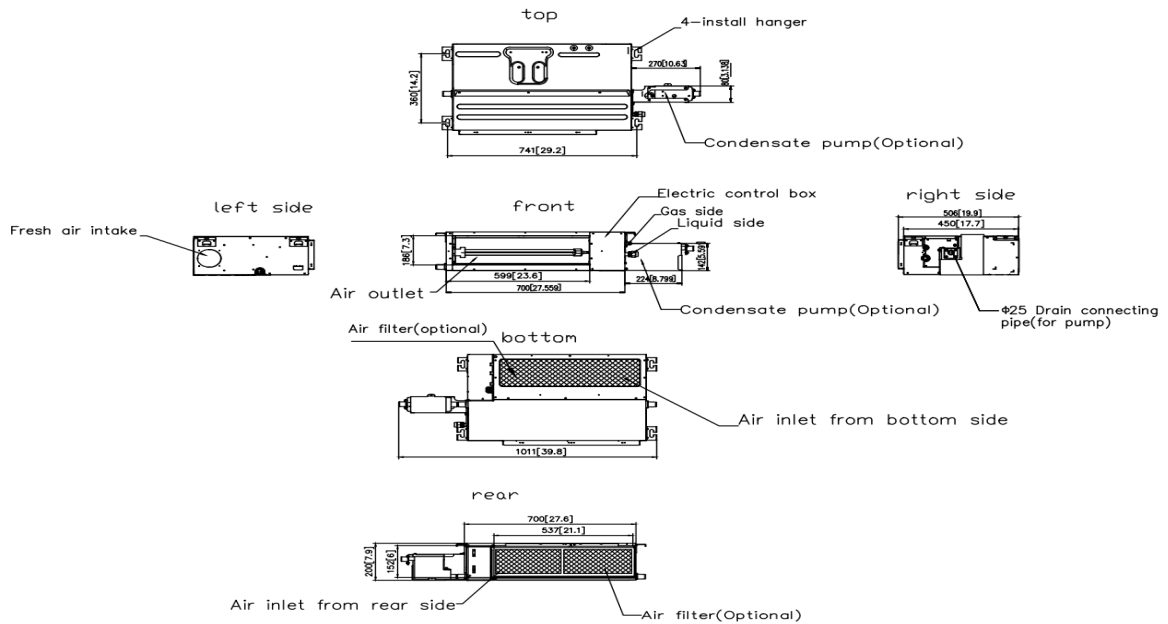
OUTDOOR UNIT DATA			
Compressor			
Type			ROTARY
Model			KTN110D42UFZ
Brand			GMCC
Capacity	(Btu/h)		11823
Input	(W)		885
Rated current (RLA)	(A)		8.8
Refrigerant oil/oil charge	(ml)		VG74/350
Outdoor fan motor			
Model			ZKFN-34-10-1
Qty			1
Input	(W)		/
Output	(W)		34
RLA	(A)		0.4
Speed	(r/min)		850/680/450
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)		1324
Outdoor noise level	[dB(A)]		54.0
Outdoor unit			
Dimension (WxDxH)	(inch)		31.69x12.99x21.81
	(mm)		805x330x554
Packing (WxDxH)	(inch)		36.02x14.57x24.21
	(mm)		915x370x615
Net/ Gross weight	(lbs.)		74.07/80.25
	(kg)		33.6/36.4

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

Indoor unit dimension(external pump)



Outdoor unit dimension

