




SUBMITTAL DATA SHEET

**Ceiling&Floor Heat Pump System** **ACIQ-48FM-HH-MB**

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
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<b>Set Code</b>	22022710003696
Indoor unit code	22022711000658
Outdoor unit code	22022516001922
<b>Set Model</b>	
Indoor unit model	ACIQ-48FM-HH-MB
Outdoor unit model	
<b>Certified</b>	
AHRI	
CSA	



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)	42.0	
Max.fuse(Outdoor)	(A)	50.0	
Connection wiring		14AWG*2	Stranded, shielded
<b>Cooling</b>			
Capacity	(Btu/h)	48000(2150-48000)	
Power Input	(W)	5930(575-5800)	
Current	(A)	24.86(4.51-25.41)	
SEER2	(Btu/W)	17.0	
EER2	(Btu/W)	8.2	
<b>Heating</b>			
Capacity	(Btu/h)	51000(11800-56300)	
Power Input	(W)	5150(670-5590)	
Current	(A)	20.60(4.98-24.48)	
HSPF2-4	(Btu/W)	9.8	
HSPF2-5	(Btu/W)	7.5	
COP	W/W	2.90	
Heat at 17F(H32)	(Btu/h)	35000	
Heat at 5F(H42)	(Btu/h)	49000	
COP at 5F(H42)	W/W	1.80	

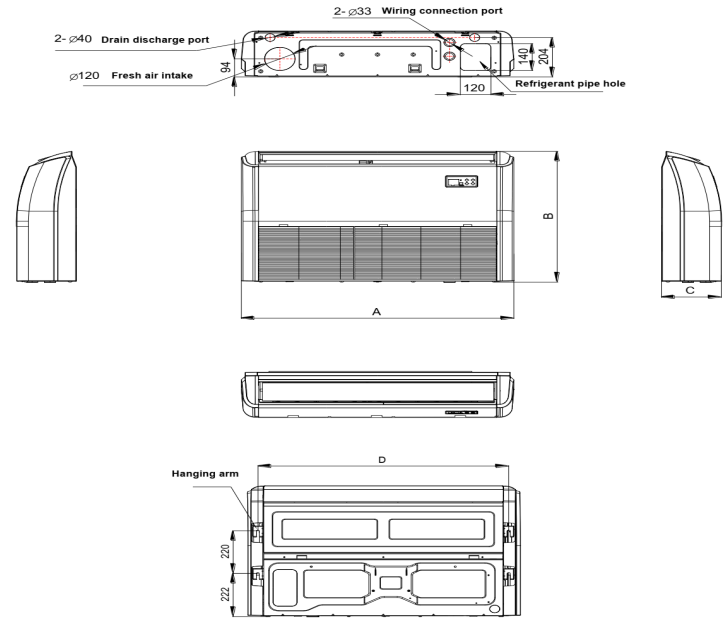
REFRIGERANT PIPE DATA			
Throttle type	Indoor unit	N/A	
	Outdoor unit	EXV+Throttle valve	
Design pressure	(PSIG)	550/340	
Refrigerant Type		R410A	
Refrigerant charge	oz	148.00	
Refrigerant precharge	(ft)	25.0	
	(m)	7.5	
Additional charge for each ft	(oz/ft)	0.32	
Additional charge for each m	(g/m)	30.0	
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	

INDOOR UNIT DATA			
<b>Indoor fan motor</b>			
Model		ZKFN-90-8-1	
Qty		1	
Input	(W)	96.0	
Output	(W)	90.0	
RLA	(A)	1.80	
Speed(Hi/Mi/Lo)	(r/min)	1320/1200/1120	
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//1352.94/1117.65/1000.00	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	55/50/44	
<b>Dehumidification</b>	(L/H)	6.22	
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	64.96x26.57x9.25	
	(mm)	1650x675x235	
Packing(WxDxH)	(inch)	67.91x29.72x12.52	
	(mm)	1725x755x318	
Net/Gross weight	(lbs.)	87.74/102.29	
	(kg)	39.8/46.4	

OUTDOOR UNIT DATA			
<b>Compressor</b>			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3565	
Rated current (RLA)	(A)	33.0	
Refrigerant oil/oil charge	(ml)	1460±15mlESTER OIL VG74	
<b>Outdoor fan motor</b>			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.00	
Output	(W)	85.00	
RLA	(A)	1.20	
Speed	(r/min)	900/850/800/750	
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)	4500.0	
Outdoor noise level	[dB(A)]	65.0	
<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.)	227.07/255.73	
	(kg)	103/116	

Outdoor(heating)	(Deg. °C)	-15~50
	(Deg. °F)	-22~75
	(Deg. °C)	-30~24

**Indoor unit dimension**



Capacity (Btu/h)	Unit	A	B	C	D
18K / 24K	mm	1068	675	235	983
	inch	42.05	26.57	9.25	38.70
36K	mm	1285	675	235	1200
	inch	50.59	26.57	9.25	47.24
48K/60K	mm	1650	675	235	1565
	inch	64.96	26.57	9.25	61.61

**Outdoor unit dimension**

