

Wall Mounted Heat Pump System

Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Set Model
 Indoor unit model CH-12MCT1W-230V1
 Outdoor unit model CH-HPR12-230V0

Certified

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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		14"4 AWG	
Cooling			
Capacity	(Btu/h)	12000(4000-14100)	
Power Input	(W)	923(147-1257)	
Current	(A)	4.17(1.17-5.54)	
SEER2	(Btu/W)	23.0	
EER2	(Btu/W)	13.0	
Heating			
Capacity	(Btu/h)	12500(4600-15000)	
Power Input	(W)	1150(362-1500)	
Current	(A)	4.85(1.73-6.59)	
HSPF2-4	(Btu/W)	10.0	
HSPF2-5	(Btu/W)	7.8	
COP	W/W	3.19	
Heat at 17F(H32)	(Btu/h)	9500	
Heat at 5F(H42)	(Btu/h)	11000	
COP at 5F(H42)	W/W	1.80	

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" / 1/2"
	(mm)	6.35/12.7
Liquid side/ Gas side(outdoor)	(inch)	1/4" / 1/2"
	(mm)	6.35/12.7
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)	60~90
	(Deg. °C)	16~32
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

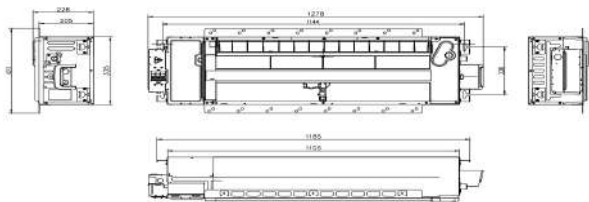
INDOOR UNIT DATA

Indoor fan motor			
Model		ZKFN-30-6-43	
Qty		1	
Input	(W)	/	
Output	(W)	30.0	
RLA	(A)	1.00	
Speed(Hi/Mi/Lo)	(r/min)	1075/982/797	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	352.94/311.76/282.35/247.06	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	38.5/37/32.5	
Dehumidification	(L/H)	1.45	
Indoor unit			
Dimension (WxDxH)	(inch)	50.31x13.19x8.98	
	(mm)	1278x335x228	
Packing(WxDxH)	(inch)	57.60x22.48x22.64	
	(mm)	1463x571x575	
Net/Gross weight	(lbs.)	45.19/82.89	
	(kg)	20.5/37.6	

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)	34.00	
RLA	(A)	0.36	
Speed	(r/min)	850/680/450	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	1323.5	
Outdoor noise level	[dB(A)]	56.0	
Outdoor unit			
Dimension (WxDxH)	(inch)	31.69x12.99x21.81	
	(mm)	805x330x554	
Packing (WxDxH)	(inch)	36.02x14.57x24.21	
	(mm)	915x370x615	
Net/ Gross weight	(lbs.)	73.63/79.37	
	(kg)	33.4/36	

Indoor unit dimension



Outdoor unit dimension

