

One Way Cassette Heat Pump System

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

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

Set Model
 Indoor unit model CH-N48LCT-230VI
 Outdoor unit model CH-N48LCU-230VO

Certified
 AHRI
 CSA
 SE US



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)	39.0	
Max.fuse(Outdoor)	(A)	50.0	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Capacity	(Btu/h)	48000(16600-48000)	
Power Input	(W)	5050(650-5050)	
Current	(A)	23.1(4.35-23.1)	
SEER2	(Btu/W)	18.5	
EER2	(Btu/W)	9.5	
Heating			
Capacity	(Btu/h)	50000(11850-52000)	
Power Input	(W)	4730(660-5200)	
Current	(A)	21.5(4.61-22.82)	
HSPF2-4	(Btu/W)	9.8	
HSPF2-5	(Btu/W)	7.5	
COP	W/W	3.10	
Heat at 17F(H32)	(Btu/h)	30000	
Heat at 5F(H42)	(Btu/h)	34600	
COP at 5F(H42)	W/W	1.98	

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSI G)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	158.73
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)	60~90
	(Deg. °C)	16~32
Indoor(heating)	(Deg. °F)	32~86
	(Deg. °C)	0~30
Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	5~75
	(Deg. °C)	-15~24

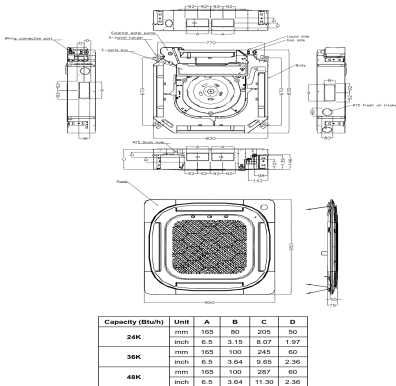
INDOOR UNIT DATA

Indoor fan motor			
Model			ZKFN-125-8-1
Qty			1
Input	(W)		157.00
Output	(W)		125.0
RLA	(A)		1.50
Speed(Hi/Mi/Lo)	(r/min)		800/730/660/590/456
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	1288.24/1170.59/1058.82/935.29	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	55/53/50	
Dehumidification	(LH)	5.67	
Indoor unit			
Dimension (WxDxH)	(inch)	32.68x32.68x11.30	
	(mm)	830x830x287	
Packing(WxDxH)	(inch)	35.83x35.83x12.99	
	(mm)	910x910x330	
Net/Gross weight	(lbs.)	64.59/74.07	
	(kg)	29.3/33.6	

OUTDOOR UNIT DATA

Compressor			
Type			ROTARY
Model			KTQ420D1UMU
Brand			GMCC
Capacity	(Btu/h)		46744
Input	(W)		3700
Rated current (RLA)	(A)		28.0
Refrigerant oil/oil charge	(ml)		VG74/1400
Outdoor fan motor			
Model			ZKFN-85-8-22-5
Qty			2
Input	(W)		126.00
Output	(W)		85.00
RLA	(A)		1.20
Speed	(r/min)		850/750/650/550
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)		4500.0
Outdoor noise level	[dB(A)]		65.0
Outdoor unit			
Dimension (WxDxH)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (WxDxH)	(inch)	43.11x19.49x58.27	
	(mm)	1095x495x1480	
Net/ Gross weight	(lbs.)	219.14/249.12	
	(kg)	99.4/113	

Indoor unit dimension



Outdoor unit dimension

