



Wells HVAC Supply
930 W 21st St, Chicago, IL 60608
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SUBMITTAL DATA SHEET

Duct Heat Pump System

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

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

Inquiry: sales@wellshvacsupply.com

Set Code
Indoor unit code 22023010006243
Outdoor unit code 22023011003834
22023016003371

Set Model
Indoor unit model WSCA-60HFMD
Outdoor unit model WSCA-60HFMO

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)	44.0	
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)	12.94/2155.88/1709.41/1261.76	
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 (WxDxH)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (WxDxH)	(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)

Outdoor unit dimension

