



Wells HVAC Supply
930 W 21st St, Chicago, IL 60608
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Website: www.wellshvacsupply.com

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 22023010005843
Outdoor unit code 22023011003416
22022516001922

Set Model
Indoor unit model WSCA-48HFMD
Outdoor unit model WSCA-48HFMO

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)	40.0	
Max.fuse(Outdoor)	(A)	50.0	
Connection wiring	14AWG*2	Stranded, shielded	
Cooling			
Capacity	(Btu/h)	48000(10300-53100)	
Power Input	(W)	5840(1070-6020)	
Current	(A)	26(6.58-26.29)	
SEER2	(Btu/W)	14.3	
EER2	(Btu/W)	8.2	
Heating			
Capacity	(Btu/h)	52000(11500-63600)	
Power Input	(W)	4650(690-5570)	
Current	(A)	20.5(4.78-24.3)	
HSPF2-4	(Btu/W)	10.3	
HSPF2-5	(Btu/W)	8.4	
COP	W/W	3.28	
Heat at 17F(H32)	(Btu/h)	39500	
Heat at 5F(H42)	(Btu/h)	46000	
COP at 5F(H42)	W/W	2.02	

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

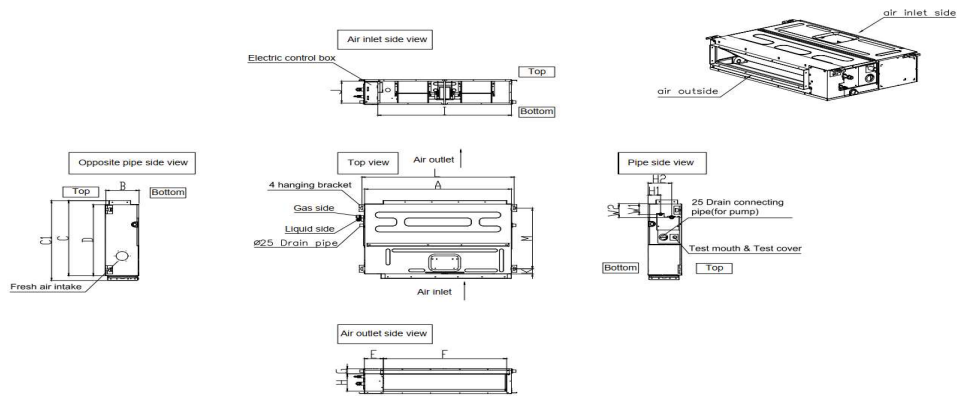
INDOOR UNIT DATA

Indoor fan motor			
Model		ZKFN-560-8-1-1	
Qty		1	
Input	(W)	560.00	
Output	(W)	560.0	
RLA	(A)	2.5	
Speed(Hi/Mi/Lo)	(r/min)	940/820/740	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	29.41/1529.41/1117.65/735.29	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	54.5/50.5/47.5	
Dehumidification	(L/H)	4.87	
Indoor unit			
Dimension (WxDxH)	(inch)	47.24x34.41x11.81	
	(mm)	1200x874x300	
Packing(WxDxH)	(inch)	55.31x36.02x14.37	
	(mm)	1405x915x365	
Net/Gross weight	(lbs.)	119.71/141.76	
	(kg)	54.3/64.3	

OUTDOOR UNIT DATA

Compressor			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3565	
Rated current (RLA)	(A)	33	
Refrigerant oil/oil charge	(ml)	1460±15ml	ESTER OIL VG74
Outdoor fan motor			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.0	
Output	(W)	85	
RLA	(A)	1.2	
Speed	(r/min)	900/850/800/750	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	4500	
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.)	227.07/255.73	
	(kg)	103/116	

Indoor unit dimension(internal pump)



Model	unit	Outline dimension					Air outlet opening size				Air return opening size			Size of install hanger		Size of refrigerant pipe			
		A	B	C	C1	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	470	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84
	inch	27.6	7.9	18.5	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	860	210	634	674	600	140	706	50	136	782	190	50	920	506	78	148	88	112
	inch	34.6	8.3	25.0	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	2.0	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	249	734	774	700	140	926	50	175	1001	228	50	1140	598	80	150	130	155
	inch	43.3	9.8	28.9	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	2.0	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	734	774	700	140	1186	50	175	1261	228	50	1400	598	80	150	130	155
	inch	53.5	9.8	28.9	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	2.0	55.1	23.5	3.1	5.9	5.1	6.1
48/55	mm	1200	300	834	874	800	123	1044	50	227	1101	280	50	1240	697	80	150	185	210
	inch	47.2	11.8	32.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	2.0	48.8	27.4	3.1	5.9	7.3	8.3

Outdoor unit dimension

