



Wells HVAC Supply
930 W 21st St, Chicago, IL 60608
Tel: (312) 800-8455
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 22023010005884
Outdoor unit code 22023011003415
22022516001923

Set Model
Indoor unit model WSCA-36HFMD
Outdoor unit model WSCA-36HFMO

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)	36000(9770-41600)	
Power Input	(W)	3950(480-4130)	
Current	(A)	17.5(3.73-17.9)	
SEER2	(Btu/W)	16.5	
EER2	(Btu/W)	9.0	
Heating			
Capacity	(Btu/h)	42000(12700-52000)	
Power Input	(W)	3700(670-4755)	
Current	(A)	16.9(4.97-21.03)	
HSPF2-4	(Btu/W)	11.0	
HSPF2-5	(Btu/W)	8.8	
COP	W/W	3.33	
Heat at 17F(H32)	(Btu/h)	34000	
Heat at 5F(H42)	(Btu/h)	36000	
COP at 5F(H42)	W/W	1.98	

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	148.40
Refrigerant precharge	(ft)	25.0
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

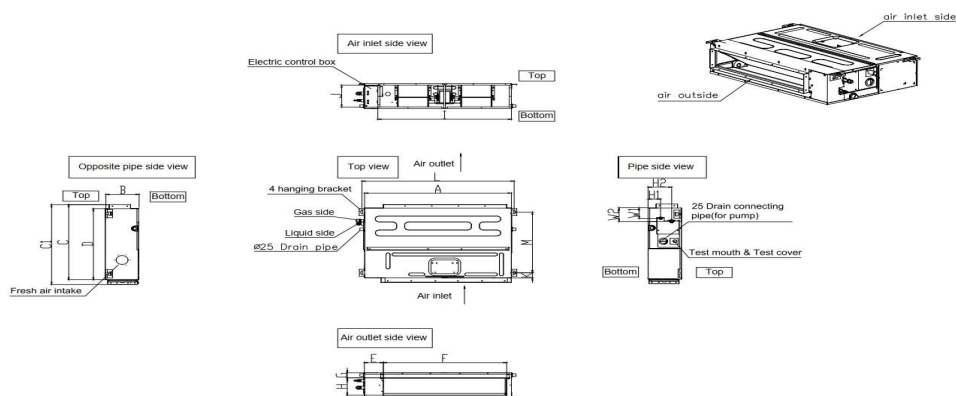
INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFN-300-8-1
Qty		1
Input	(W)	250.00
Output	(W)	300.0
RLA	(A)	1.6
Speed(Hi/Mi/Lo)	(r/min)	1130/1050/990
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//1081.76/912.35/702.94
Indoor noise level (Hi/Med/Lo)	[dB(A)]	49.5/46.5/43.0
Dehumidification	(L/H)	2.85
Indoor unit		
Dimension (WxDxH)	(inch)	53.54x30.47x9.80
	(mm)	1360x774x249
Packing(WxDxH)	(inch)	61.81x31.69x12.99
	(mm)	1570x805x330
Net/Gross weight	(lbs.)	110.89/128.09
	(kg)	50.3/58.1

OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		EAPQ420D1UMUA
Brand		GMCC
Capacity	(Btu/h)	44015
Input	(W)	3565
Rated current (RLA)	(A)	32
Refrigerant oil/oil charge	(ml)	1460±15mlESTER 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)	800/750/650
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	4500
Outdoor noise level	[dB(A)]	65.0
Outdoor unit		
Dimension (W×D×H)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (W×D×H)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	220.24/248.02
	(kg)	99.9/112.5

Indoor unit dimension(internal pump)



Model		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	unit	700	200	470	460	137	537	30	162	152	168	74	360	84	140	84	170	84	
	mm	276	79	185	179	54	211	1.2	6.0	5.7	6.6	2.9	29.2	3.3	5.5	3.3	6.6	3.3	
	inch	11.0	3.1	7.3	7.0	2.1	8.4	0.05	0.24	0.23	0.26	0.11	1.14	0.13	0.22	0.13	0.26	0.13	
24	unit	880	248	515	505	140	706	50	136	782	190	50	920	506	78	148	88	112	
	mm	348	98	203	199	56	279	2.0	5.4	30.8	7.6	2.0	36.2	20.0	3.1	5.9	3.5	4.4	
	inch	11.0	3.9	8.0	7.8	2.2	11.0	0.08	0.21	1.21	0.30	0.08	1.43	0.80	0.12	0.24	0.14	0.17	
36	unit	1100	249	734	774	700	140	928	50	175	1001	228	50	1140	598	80	150	130	155
	mm	433	98	289	305	27.6	55	36.5	2.0	6.9	39.4	9.0	2.0	44.9	23.5	3.1	5.9	5.1	6.1
	inch	17.0	3.9	11.4	12.0	1.1	2.2	1.43	0.08	0.27	1.56	0.36	0.08	1.77	0.94	0.12	0.24	0.20	0.24
48/55	unit	1360	249	734	774	700	140	928	50	175	1001	228	50	1140	598	80	150	130	155
	mm	535	98	289	305	27.6	55	36.5	2.0	6.9	49.6	9.0	2.0	55.1	23.5	3.1	5.9	5.1	6.1
	inch	21.1	3.9	11.4	12.0	1.1	2.2	1.43	0.08	0.27	1.96	0.36	0.08	2.19	0.94	0.12	0.24	0.20	0.24

Outdoor unit dimension

