



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 22023010005845
Outdoor unit code 22023011003474
22022016015900

Set Model
Indoor unit model WMA-18HFMD
Outdoor unit model WSA-18HFMO

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)	20.0	
Max.fuse(Outdoor)	(A)	25.0	
Connection wiring		14AWG*4	
Cooling			
Capacity	(Btu/h)	17000(6500~18800)	
Power Input	(W)	1460(310~1900)	
Current	(A)	9.32(2.3~8.9)	
SEER2	(Btu/W)	18.0	
EER2	(Btu/W)	11.7	
Heating			
Capacity	(Btu/h)	19000(8900~22000)	
Power Input	(W)	1900(550~2250)	
Current	(A)	11.50(3.80~12.0)	
HSPF2-4	(Btu/W)	9.5	
HSPF2-5	(Btu/W)	7.5	
COP	W/W	2.93	
Heat at 17F(H32)	(Btu/h)	15000	
Heat at 5F(H42)	(Btu/h)	17700	
COP at 5F(H42)	W/W	1.85	

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	65.26
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)	98.4
	(m)	30.0
Max. difference in level	(ft)	65.6
	(m)	20.0
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)	-22 ~ 122
	(Deg. °C)	-30 ~ 50
Outdoor(heating)	(Deg. °F)	-22 ~ 75
	(Deg. °C)	-30 ~ 24

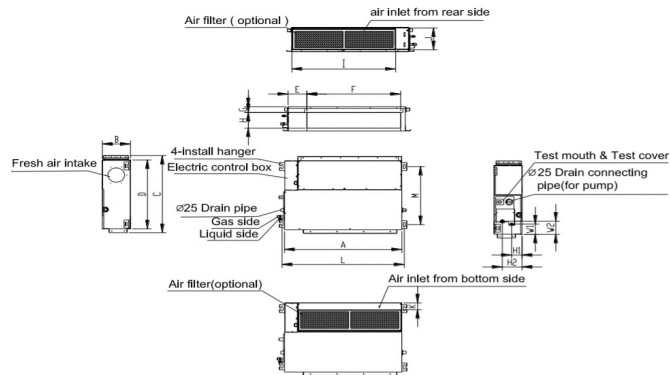
INDOOR UNIT DATA

Indoor fan motor			
Model		ZKFN-160-8-1-2	
Qty		1	
Input	(W)	90.00	
Output	(W)	160.0	
RLA	(A)	1.2	
Speed(Hi/Mi/Lo)	(r/min)	850/700/450	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//529.41/450.00/370.59	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	40/37.5/35	
Dehumidification			
	(L/H)	1.6	
Indoor unit			
Dimension (WxDxH)	(inch)	34.65x26.54x8.27	
	(mm)	880x674x210	
Packing(WxDxH)	(inch)	42.13x28.54x11.02	
	(mm)	1070x725x280	
Net/Gross weight	(lbs.)	55.34/67.02	
	(kg)	25.1/30.4	

OUTDOOR UNIT DATA

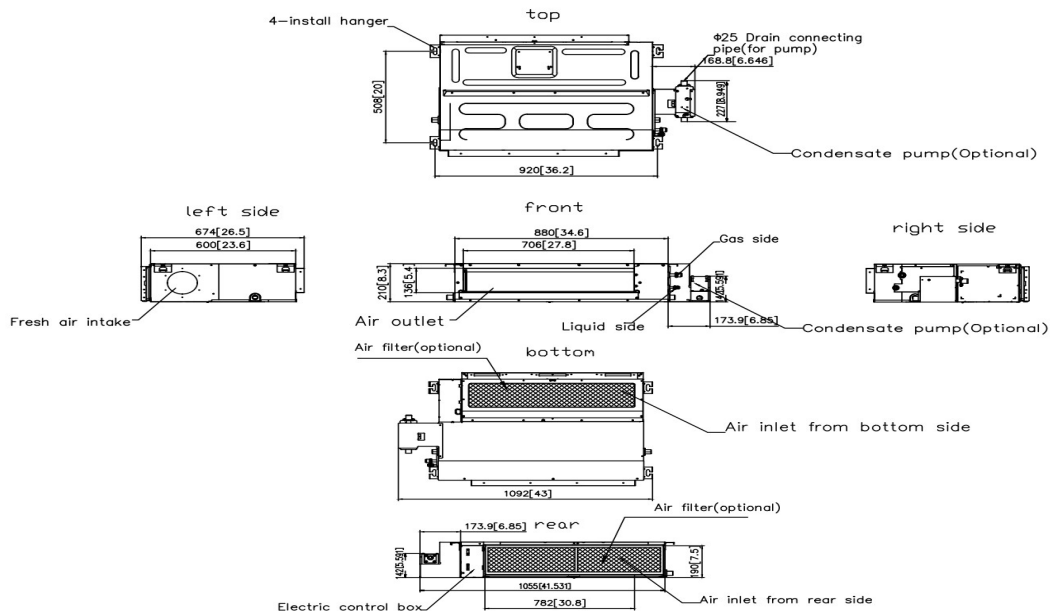
Compressor			
Type		Twin-ROTARY	
Model		KTM240D43UKT	
Brand		GMCC	
Capacity	(Btu/h)	25931	
Input	(W)	2045	
Rated current (RLA)	(A)	14.25	
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620	
Outdoor fan motor			
Model		ZKFN-80-8-3	
Qty		1	
Input	(W)	/	
Output	(W)	80	
RLA	(A)	0.8	
Speed	(r/min)	810/720	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	1765	
Outdoor noise level	[dB(A)]	59.0	
Outdoor unit			
Dimension (WxDxH)	(inch)	35.04x13.46x26.50	
	(mm)	890x342x673	
Packing (WxDxH)	(inch)	39.17x15.67x29.13	
	(mm)	995x398x740	
Net/ Gross weight	(lbs.)	100.97/108.03	
	(kg)	45.8/49	

Indoor unit dimension(internal pump)



Model (KBTu/h)	unit	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84
	inch	27.6	7.9	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	880	210	674	600	140	706	50	136	782	190	40	920	508	78	148	88	112
	inch	34.6	8.3	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	1.6	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
	inch	43.3	9.8	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	155
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	0.2	55.1	23.5	3.1	5.9	5.1	6.1
48	mm	1200	300	874	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
	inch	47.2	11.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	0.2	48.8	27.4	3.1	5.9	7.3	8.3

Indoor unit dimension(external pump)



Outdoor unit dimension

