

# Concealed flexi type unit

FWM-DAT/DAF



## AC fan motor unit for horizontal or vertical concealed mounting

- › Pre-assembled 3-way/4-port on/off valves are available
- › Valve packages are insulated, no extra drain pan required
- › Valve packages contain balancing valves and sensor pocket
- › Fast-on connections for electrical options: no tools needed
- › Electric heater: no relay up to 2kW capacity
- › Electric heater: equipped with two overheat cut-out thermostats
- › High efficiency heat exchanger
- › Washable air filter, easily removable for maintenance

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FWM-DAT/DAF			01	15	02	25	03	35	04	06	08	10	01	15	02	25	03	35	04	06	08	10					
			<b>2-pipe</b>										<b>4-pipe</b>														
Cooling capacity (standard conditions)	Latent capacity	High	kW	0.34(1)	0.44(1)	0.54(1)	0.82(1)	0.76(1)	1.18(1)	0.98(1)	1.80(1)	2.06(1)	0.32(1)	0.42(1)	0.33(1)	0.53(1)	0.80(1)	0.75(1)	1.17(1)	1.19(1)	1.79(1)	2.03(1)					
		Sensible capacity	Low	kW	0.77(1)	0.93(1)	0.98(1)	1.15(1)	1.23(1)	1.41(1)	1.76(1)	2.27(1)	2.75(1)	2.94(1)	0.73(1)	0.91(1)	0.96(1)	1.14(1)	1.21(1)	1.40(1)	1.74(1)	2.23(1)	2.73(1)	2.91(1)			
	Total capacity	Medium	kW	0.94(1)	1.10(1)	1.20(1)	1.53(1)	1.66(1)	1.99(1)	2.39(1)	2.85(1)	3.70(1)	4.46(1)	0.87(1)	1.07(1)	1.18(1)	1.50(1)	1.62(1)	1.96(1)	2.36(1)	2.80(1)	3.67(1)	4.40(1)				
		High	kW	1.16(1)	1.25(1)	1.37(1)	1.82(1)	2.05(1)	2.69(1)	3.05(1)	3.55(1)	4.73(1)	5.72(1)	1.10(1)	1.22(1)	1.41(1)	1.79(1)	2.01(1)	2.61(1)	2.99(1)	3.47(1)	4.67(1)	5.61(1)				
Heating capacity (standard conditions)	Capacity	Low	kW	1.02(1)	1.24(1)	1.34(1)	1.57(1)	1.73(1)	1.94(1)	2.47(1)	2.95(1)	3.88(1)	4.00(1)	0.97(1)	1.22(1)	1.24(1)	1.55(1)	1.70(1)	1.92(1)	2.44(1)	3.06(1)	3.84(1)	3.96(1)				
		Medium	kW	1.21(1)	1.48(1)	1.66(1)	1.99(1)	2.34(1)	2.58(1)	3.21(1)	3.59(1)	5.14(1)	6.07(1)	1.11(1)	1.44(1)	1.52(1)	1.96(1)	2.29(1)	2.54(1)	3.17(1)	3.74(1)	5.10(1)	5.99(1)				
		High	kW	1.50(1)	1.69(1)	1.91(1)	2.36(1)	2.87(1)	3.45(1)	4.23(1)	4.41(1)	6.53(1)	7.78(1)	1.42(1)	1.64(1)	1.74(1)	2.32(1)	2.81(1)	3.36(1)	4.16(1)	4.57(1)	6.46(1)	7.64(1)				
Power input	Low	Medium	kW	0.02	0.03	0.02	0.03	0.04	0.05	0.09	0.11	0.02	0.03	0.02	0.03	0.02	0.03	0.04	0.05	0.09	0.11	0.02	0.03				
		High	kW	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056	0.065	0.098	0.182	0.244	0.037	0.053	0.057	0.056				
		High	kW	0.03	0.04	0.05	0.06	0.07	0.13	0.17	0.03	0.04	0.05	0.06	0.07	0.13	0.17	0.03	0.04	0.05	0.06	0.07	0.13	0.17			
FCEER				E			D	E	D	E	E			D	E	D	E										
FCCOP				E			D			E			D			E											
Dimensions	Unit	Height x Width x Depth	mm	535x584x224			535x794x224			535x1,000x224			535x1,210x249			535x584x224			535x794x224			535x1,000x224			535x1,210x249		
Weight	Unit		kg	16.5	16.9	21.4	22.1	26.3	26.4	26.6	35.4	16.5	16.9	21.4	22.1	26.3	26.4	26.6	35.4								
Heat exchanger	Water volume		l	0			1			2			0			1			2								
Water flow	Cooling	Low	l/h	179(1)	216(1)	234(1)	275(1)	302(1)	340(1)	431(1)	515(1)	682(1)	706(1)	169(1)	212(1)	216(1)	272(1)	297(1)	336(1)	425(1)	535(1)	676(1)	699(1)				
		Medium	l/h	213(1)	261(1)	292(1)	348(1)	408(1)	451(1)	561(1)	628(1)	905(1)	1,071(1)	196(1)	254(1)	267(1)	343(1)	400(1)	447(1)	554(1)	654(1)	898(1)	1,058(1)				
		High	l/h	264(1)	299(1)	337(1)	415(1)	503(1)	602(1)	743(1)	774(1)	1,152(1)	1,376(1)	250(1)	291(1)	307(1)	409(1)	493(1)	594(1)	730(1)	802(1)	1,138(1)	1,352(1)				
	Heating	Low	l/h	211(5)	252(5)	260(5)	302(5)	301(5)	415(5)	430(5)	575(5)	690(5)	764(5)	115(2)	120(2)	119(2)	156(2)	165(2)	247(2)	238(2)	311(2)	440(2)	425(2)				
		Medium	l/h	256(5)	300(5)	315(5)	393(5)	408(5)	545(5)	563(5)	709(5)	898(5)	1,135(5)	130(2)	137(2)	136(2)	191(2)	202(2)	304(2)	281(2)	357(2)	527(2)	551(2)				
		High	l/h	317(5)	320(5)	373(5)	469(5)	506(5)	704(5)	736(5)	866(5)	1,129(5)	1,455(5)	146(2)	154(2)	222(2)	234(2)	368(2)	334(2)	406(2)	610(2)	643(2)					
Fan	Type		Centrifugal																								
	Quantity		1					2					1					2									
	Air flow rate	Low	m³/h	178	211	241	320	361	470	570	642	174	205	238	237	316	356	460	565	636							
		Medium	m³/h	233	271	341	450	497	605	771	1,022	225	261	334	332	444	490	593	765	1,007							
High		m³/h	319	344	442	640	706	785	1,011	1,393	307	330	327	432	431	628	690	763	998	1,362							
Air filter	Type		Polypropylene net																								
Total sound power level	Low	dBA	37(3)	38(3)	40(3)	35(3)	36(3)	35(3)	43(3)	47(3)	49(3)	33(3)	40(3)	38(3)	34(3)	33(3)	36(3)	39(3)	48(3)	46(3)	48(3)						
	Medium	dBA	42(3)	44(3)	43(3)	42(3)	43(3)	49(3)	54(3)	60(3)	39(3)	44(3)	43(3)	41(3)	45(3)	46(3)	53(3)	54(3)	58(3)								
	High	dBA	47(3)	49(3)	50(3)	48(3)	52(3)	53(3)	56(3)	61(3)	67(3)	45(3)	49(3)	50(3)	48(3)	47(3)	53(3)	56(3)	58(3)	60(3)	66(3)						
Sound pressure level	Low	dBA	32(4)	33(4)	35(4)	30(4)	31(4)	30(4)	38(4)	42(4)	44(4)	28(4)	33(4)	29(4)	28(4)	29(4)	32(4)	43(4)	41(4)	43(4)							
	Medium	dBA	37(4)	39(4)	38(4)	37(4)	38(4)	44(4)	49(4)	55(4)	34(4)	39(4)	38(4)	36(4)	38(4)	41(4)	48(4)	49(4)	53(4)								
	High	dBA	42(4)	44(4)	45(4)	43(4)	47(4)	48(4)	51(4)	56(4)	62(4)	40(4)	44(4)	45(4)	43(4)	42(4)	46(4)	51(4)	54(4)	55(4)	61(4)						
Electric heater	Power input	kW	1.0	1.5	1.6	2.0	3.0	1.0	1.5	1.6	2.0	3.0															
Piping connections	Drain	OD	mm	16										16													
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230										1~/50/230										/-/-	1~/50/230			
Current input	Low	A	0.09	0.11	0.14	0.19	0.29	0.39	0.54	0.09	0.11	0.14	0.19	0.29	0.39	0.54											
	Medium	A	0.11	0.14	0.20	0.29	0.28	0.57	0.78	0.11	0.14	0.20	0.29	0.28	0.57	0.78											
	High	A	0.16	0.20	0.27	0.40	0.39	0.80	1.07	0.16	0.20	0.27	0.40	0.39	0.80	1.07											

(1) Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K.  
 (2) Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 65°C, water temperature drop 10K.  
 (3) Sound power level according to ISO3741  
 (4) The sound pressure level is measured via a microphone at 1m distance of the unit.  
 (5) Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K.

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