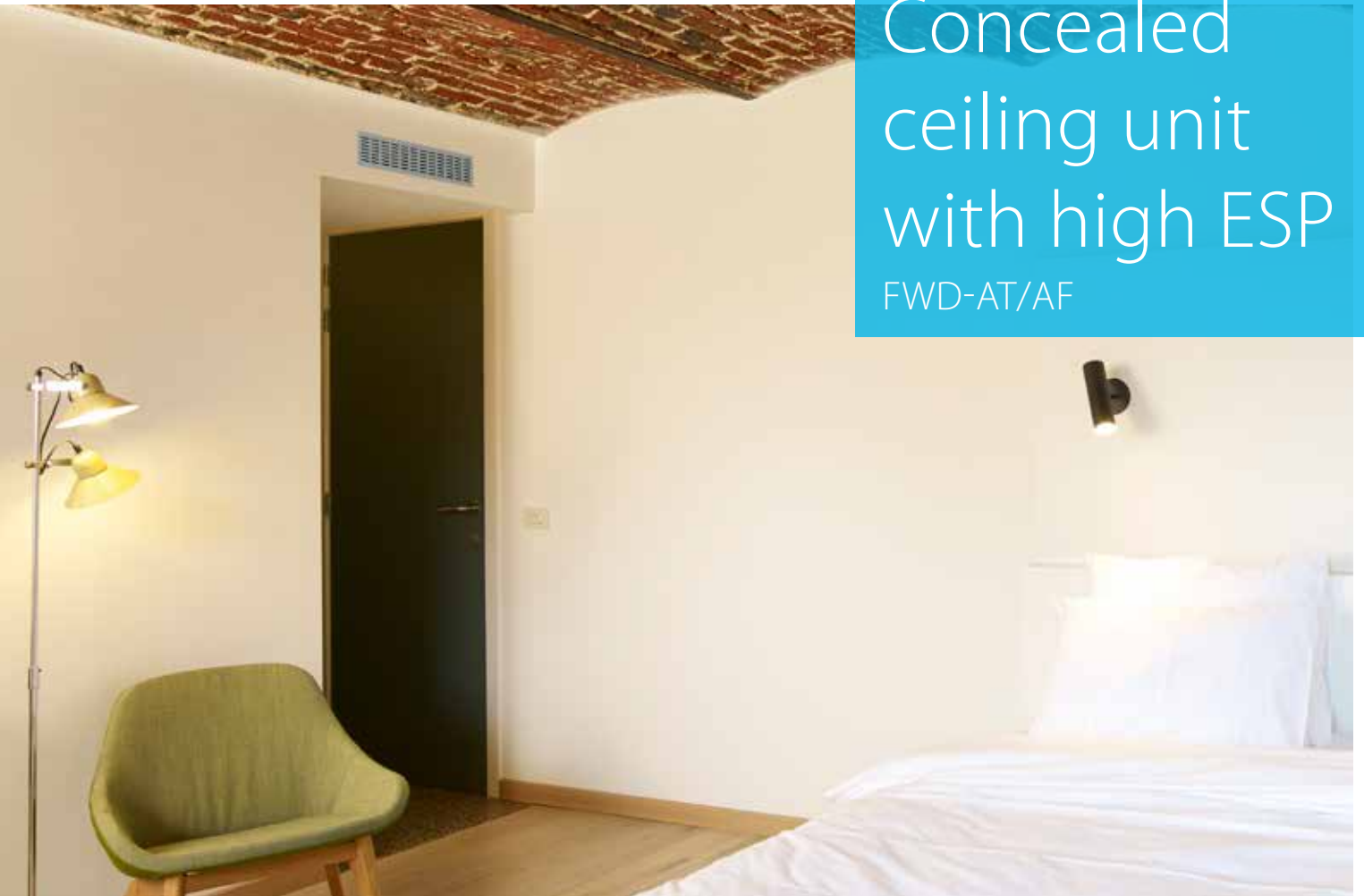


Concealed ceiling unit with high ESP

FWD-AT/AF



AC fan motor unit for horizontal concealed mounting

- › Straight duct connector mounted to discharge side
- › Washable air filter, easily removable for maintenance
- › Available static pressure from 60 up to 145 Pa

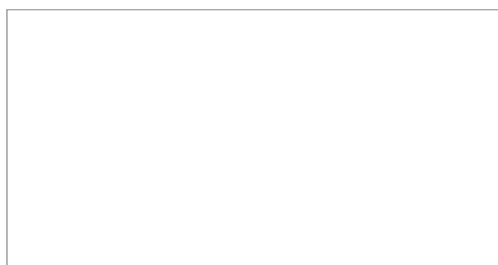
FWD-AT/AF



FWD-AT/AF			04	06	08	10	12	16	18	04	06	08	10	12	16	18	
			2-pipe						4-pipe								
Cooling capacity (standard conditions)	Latent capacity	High	kW	0.82(1)	1.54(1)	1.28(1)	1.65(1)	2.63(1)	3.71(1)	4.25(1)	0.82(1)	1.52(1)	1.27(1)	1.64(1)	2.60(1)	3.70(1)	4.25(1)
		Low	kW	2.10(1)	3.66(1)	4.84(1)	5.23(1)	6.35(1)	8.61(1)	9.37(1)	2.09(1)	3.60(1)	4.79(1)	5.17(1)	6.29(1)	8.58(1)	9.34(1)
		Medium	kW	2.59(1)	3.94(1)	5.39(1)	5.86(1)	7.75(1)	10.43(1)	11.40(1)	2.57(1)	3.89(1)	5.31(1)	5.77(1)	7.66(1)	10.38(1)	11.34(1)
	Total capacity	High	kW	2.83(1)	4.16(1)	6.04(1)	6.58(1)	9.22(1)	12.21(1)	13.49(1)	2.80(1)	4.08(1)	5.94(1)	6.46(1)	9.06(1)	12.14(1)	13.41(1)
Low		kW	2.74(1)	4.99(1)	6.03(1)	6.68(1)	8.42(1)	11.63(1)	12.92(1)	2.73(1)	4.92(1)	5.97(1)	6.61(1)	8.33(1)	11.59(1)	12.87(1)	
Medium		kW	3.36(1)	5.39(1)	6.63(1)	7.41(1)	10.12(1)	13.83(1)	15.36(1)	3.33(1)	5.32(1)	6.54(1)	7.31(1)	10.00(1)	13.77(1)	15.29(1)	
Heating capacity (standard conditions)	Capacity	Low	kW	3.04(2)	5.59(2)	6.47(2)	7.28(2)	9.06(2)	12.68(2)	13.73(2)	3.23(3)	5.25(3)	7.02(3)	6.99(3)	10.86(3)	14.88(3)	14.79(3)
		Medium	kW	3.69(2)	6.03(2)	7.11(2)	8.04(2)	10.84(2)	15.05(2)	16.40(2)	3.68(3)	5.51(3)	7.47(3)	7.44(3)	12.63(3)	17.17(3)	17.03(3)
		High	kW	4.05(2)	6.42(2)	7.88(2)	8.93(2)	12.72(2)	17.29(2)	19.05(2)	3.91(3)	5.72(3)	7.99(3)	7.94(3)	14.43(3)	19.30(3)	19.20(3)
Power input	Low	kW	0.14	0.35		0.29	0.37	0.87	0.14	0.35	0.29	0.37	0.87	0.14	0.35	0.29	
	Medium	kW	0.19	0.39		0.38	0.54	1.09	0.19	0.39	0.38	0.54	1.09	0.19	0.39	0.38	
	High	kW	0.265	0.460		0.505	0.750	1.300	0.265	0.460	0.505	0.750	1.300	0.265	0.460	0.505	
FCEER				E			D			E			D				
FCCOP				D			E			D			E				
Dimensions	Unit	Height x Width x Depth	mm	D	E	D		E		D	E		D		E		
				559 x 754 x 280	559 x 964 x 280	559 x 1,170 x 280	718 x 1,170 x 353	718 x 1,380 x 353	559 x 754 x 280	559 x 964 x 280	559 x 1,170 x 280	718 x 1,170 x 353	718 x 1,380 x 353				
Weight	Unit	kg	34.7	43.2	50.3	51.7	70.9	83.4	85.9	32.5	40.6	47.3	48.7	65.3	77.0	79.5	
Heat exchanger	Water volume	l	1	2		3		5	6	1	2	3		5	6		
Additional heat exchanger	Water volume	l	1			2			-								
Water flow	Cooling	Low	l/h	491	904	1,075	1,185	1,493	2,138	2,358	493	915	1,085	1,197	1,509	2,145	2,365
		Medium	l/h	602	978	1,187	1,319	1,808	2,550	2,811	607	990	1,202	1,336	1,827	2,561	2,823
		High	l/h	666	1,040	1,322	1,476	2,130	2,940	3,254	671	1,059	1,344	1,501	2,163	2,953	3,270
	Heating	Low	l/h	283	460	614	612	950	1,302	1,295	529	972	1,124	1,264	1,573	2,203	2,389
		Medium	l/h	322	483	654	651	1,105	1,503	1,490	641	1,048	1,236	1,397	1,884	2,617	2,852
		High	l/h	342	501	700	695	1,264	1,690	1,680	705	1,114	1,369	1,551	2,209	3,008	3,311
Fan	Type	Centrifugal															
	Quantity	1			2			1			2						
	Air flow rate	Low	m³/h	532	1,004	1,194	1,186	1,466	2,084	2,065	534	1,021	1,208	1,200	1,485	2,092	2,073
		Medium	m³/h	694	1,115	1,362	1,349	1,871	2,626	2,590	700	1,134	1,384	1,371	1,898	2,641	2,604
High		m³/h	794	1,212	1,573	1,550	2,328	3,186	3,155	802	1,241	1,609	1,584	2,380	3,206	3,175	
Air filter	Type	Acrylic fiber - Filtering class G2 (G4 on request)															
Total sound power level	Low	dBA	54 (4)	61 (4)	62 (4)	60 (4)	69 (4)	69 (4)	59 (4)	62 (4)	60 (4)	69 (4)	69 (4)	73 (4)	73 (4)		
	Medium	dBA	61 (4)	64 (4)	67 (4)	67 (4)	73 (4)	73 (4)	61 (4)	63 (4)	67 (4)	67 (4)	73 (4)	73 (4)			
	High	dBA	66 (4)	69 (4)	72 (4)	74 (4)	78 (4)	78 (4)	66 (4)	69 (4)	72 (4)	74 (4)	74 (4)	78 (4)	78 (4)		
Sound pressure level	Low	dBA	49 (5)	56 (5)	57 (5)	55 (5)	64 (5)	64 (5)	49 (5)	54 (5)	57 (5)	55 (5)	64 (5)	64 (5)			
	Medium	dBA	56 (5)	59 (5)	62 (5)	62 (5)	68 (5)	68 (5)	56 (5)	58 (5)	62 (5)	62 (5)	68 (5)	68 (5)			
	High	dBA	61 (5)	64 (5)	67 (5)	69 (5)	73 (5)	73 (5)	61 (5)	64 (5)	67 (5)	69 (5)	69 (5)	73 (5)	73 (5)		
Electric heater	Power input	kW	2.0	6.0	9.0			12.0			2.0	6.0	9.0			12.0	
Piping connections	Drain	OD	17														
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230														

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

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