DAIKIN

Applied Systems
Technical Data

FWP-AT

> FWP02AATN6V3
> FWP03AATN6V3
> FWP04AATN6V3
> FWP05AATN6V3
> FWP06AATN6V3
> FWP07AATN6V3

TABLE OF CONTENTS

FWP-AT

1 Features

1 - 1 FWP-AT

- Blends unobtrusively with any interior décor: only the suction and discharge grills are visible
- Up to 50% energy savings with brushless DC motor technology compared to traditional technology
- Instant adjustment to temperature and relative humidity changes
- Low operating sound level
- Highly flexible solutions: multiple sizes, piping topologies and connection valves

2 Specifications

2-1 Technical Specifications				FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Cooling capacity (standard conditions)	Latent capacity 2-pipe	Fan speed 7	kW	0.67 (1)	0.92 (1)	1.06 (1)	1.35 (1)	1.41 (1)	1.87 (1)
	Sensible capacity 2-pipe	Fan speed 1	kW	0.95 (1)	1.03 (1)	1.11 (1)	1.62 (1)	1.79 (1)	1.92 (1)
		Fan speed 2	kW	1.02 (1)	1.17 (1)	1.23 (1)	1.82 (1)	1.88 (1)	2.15 (1)
		Fan speed 3	kW	1.10 (1)	1.25 (1)	1.32 (1)	2.20 (1)	2.22 (1)	2.55 (1)
		Fan speed 4	kW	1.29 (1)	1.47 (1)	1.56 (1)	2.69 (1)	2.79 (1)	3.19 (1)
		Fan speed 5	kW	1.41 (1)	1.61 (1)	1.72 (1)	2.82 (1)	2.94 (1)	3.36 (1)
		Fan speed 6	kW	1.53 (1)	1.85 (1)	1.99 (1)	2.91 (1)	3.06 (1)	3.49 (1)
		Fan speed 7	kW	1.71 (1)	1.96 (1)	2.13 (1)	3.23 (1)	3.44 (1)	3.93 (1)
	Total capacity 2-pipe	Fan speed 1	kW	1.35 (1)	1.51 (1)	1.69 (1)	2.23 (1)	2.58 (1)	2.86 (1)
		Fan speed 2	kW	1.38 (1)	1.70 (1)	1.83 (1)	2.52 (1)	2.55 (1)	3.15 (1)
		Fan speed 3	kW	1.50 (1)	1.83 (1)	1.97 (1)	3.07 (1)	2.97 (1)	3.75 (1)
		Fan speed 4	kW	1.77 (1)	2.14 (1)	2.33 (1)	3.79 (1)	3.87 (1)	4.71 (1)
		Fan speed 5	kW	1.95 (1)	2.35 (1)	2.57 (1)	3.97 (1)	4.10 (1)	4.96 (1)
		Fan speed 6	kW	2.12 (1)	2.70 (1)	2.98 (1)	4.11 (1)	4.28 (1)	5.15 (1)
		Fan speed 7	kW	2.38 (1)	2.88 (1)	3.19 (1)	4.58 (1)	4.85 (1)	5.80 (1)
Heating capacity (standard conditions)	Capacity 2-pipe	Fan speed 1	kW	1.40 (2)	1.48 (2)	1.53 (2)	2.46 (2)	2.59 (2)	2.74 (2)
		Fan speed 2	kW	1.56 (2)	1.67 (2)	1.74 (2)	2.71 (2)	2.96 (2)	3.12 (2)
		Fan speed 3	kW	1.68 (2)	1.80 (2)	1.88 (2)	3.23 (2)	3.45 (2)	3.64 (2)
		Fan speed 4	kW	1.93 (2)	2.08 (2)	2.19 (2)	3.93 (2)	4.25 (2)	4.53 (2)
		Fan speed 5	kW	2.11 (2)	2.29 (2)	2.42 (2)	4.10 (2)	4.45 (2)	4.76 (2)
		Fan speed 6	kW	2.27 (2)	2.62 (2)	2.80 (2)	4.24 (2)	4.61 (2)	4.95 (2)
		Fan speed 7	kW	2.54 (2)	2.80 (2)	3.00 (2)	4.71 (2)	5.15 (2)	5.56 (2)
Power input	Fan speed 1		kW	0.01			0.02		
	Fan speed 2		kW	0.01			0.02		
	Fan speed 3		kW	0.02			0.03		
	Fan speed 4		kW	0.02			0.05		
	Fan speed 5		kW	0.03			0.05		
	Fan speed 6		kW	0.033			0.065		
	Fan speed 7		kW	0.046			0.076		
FCEER				A					
FCCOP				A					
Dimensions	Unit	Height	mm	551					
		Width	mm	1,040			1,390		
		Depth	mm	239					
Weight	Unit		kg	26.0	27.0	29.0	35.0	37.0	39.0
Casing	Material			Galvanised steel					
Heat exchanger	Type			Cross fin coil					
	Rows	Quantity		3	4	6	3	4	6
	Fin	Type		Aluminium					
	Tube material			Copper					
	Tube internal diameter		mm	-					
	Tube step			-					
	Tube thickness		mm	-					
	Water volume		l	1	2				3

2 Specifications

2-1 Technical Specifications				FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Additional heat exchanger	Type			-					
	Height		mm	-					
	Length		mm	-					
	Circuits	Quantity		-					
	Row step	Quantity		-					
	Fin	Type		-					
		Material		-					
		Step		-					
		Thickness	m²	-					
	Tube material			-					
	Tube type			-					
	Tube internal diameter		mm	-					
	Tube step			-					
	Tube thickness		mm	-					

2 Specifications

2-1 Technical Specifications					FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Water flow	Cooling	Fan speed 1		l/h	219 (1)	256 (1)	283 (1)	318 (1)	400 (1)	465 (1)
		Fan speed 2		l/h	238 (1)	294 (1)	316 (1)	436 (1)	440 (1)	544 (1)
		Fan speed 3		l/h	259 (1)	318 (1)	342 (1)	533 (1)	516 (1)	649 (1)
		Fan speed 4		l/h	307 (1)	372 (1)	403 (1)	659 (1)	647 (1)	817 (1)
		Fan speed 5		l/h	340 (1)	410 (1)	448 (1)	690 (1)	712 (1)	859 (1)
		Fan speed 6		l/h	369 (1)	471 (1)	519 (1)	715 (1)	744 (1)	894 (1)
		Fan speed 7		l/h	418 (1)	502 (1)	555 (1)	799 (1)	847 (1)	1,009 (1)
		Low		l/h	-					
		Medium		l/h	-					
		High		l/h	-					
		Super high		l/h	-					
		Nom.		l/h	-					
	Heating	Fan speed 1		l/h	242 (2)	256 (2)	265 (2)	372 (2)	448 (2)	469 (2)
		Fan speed 2		l/h	272 (2)	290 (2)	302 (2)	472 (2)	515 (2)	542 (2)
		Fan speed 3		l/h	292 (2)	313 (2)	327 (2)	562 (2)	600 (2)	634 (2)
		Fan speed 4		l/h	335 (2)	362 (2)	381 (2)	684 (2)	739 (2)	789 (2)
		Fan speed 5		l/h	367 (2)	399 (2)	422 (2)	713 (2)	774 (2)	828 (2)
		Fan speed 6		l/h	395 (2)	456 (2)	487 (2)	738 (2)	802 (2)	860 (2)
		Fan speed 7		l/h	442 (2)	486 (2)	521 (2)	819 (2)	898 (2)	969 (2)
		Low		l/h	-					
		Medium		l/h	-					
		High		l/h	-					
		Super high		l/h	-					
		Nom.		l/h	-					
	Water pressure drop	Cooling	Fan speed 1	kPa	2 (1)	4 (1)	3 (1)	4 (1)	2 (1)	3 (1)
			Fan speed 2	kPa	3 (1)	5 (1)	4 (1)		3 (1)	4 (1)
			Fan speed 3	kPa	3 (1)	5 (1)	4 (1)	6 (1)	3 (1)	6 (1)
			Fan speed 4	kPa	4 (1)	7 (1)	5 (1)	9 (1)	4 (1)	8 (1)
			Fan speed 5	kPa	5 (1)	8 (1)	7 (1)	10 (1)	6 (1)	9 (1)
			Fan speed 6	kPa	6 (1)	11 (1)	8 (1)	11 (1)	6 (1)	10 (1)
			Fan speed 7	kPa	7 (1)	12 (1)	10 (1)	13 (1)	6 (1)	12 (1)
			Low	kPa	-					
			Mediu m	kPa	-					
			High	kPa	-					
			Super high	kPa	-					
		Heating	Fan speed 1	kPa	2 (2)	3 (2)	2 (2)	4 (2)	2 (2)	3 (2)
			Fan speed 2	kPa	3 (2)	4 (2)	3 (2)	4 (2)	2 (2)	3 (2)
			Fan speed 3	kPa		3 (2)		6 (2)	3 (2)	4 (2)
			Fan speed 4	kPa	4 (2)	6 (2)	4 (2)	8 (2)	4 (2)	7 (2)
			Fan speed 5	kPa	5 (2)	7 (2)	5 (2)	9 (2)	5 (2)	7 (2)
			Fan speed 6	kPa	5 (2)	8 (2)	6 (2)	9 (2)	5 (2)	8 (2)
			Fan speed 7	kPa	6 (2)	9 (2)	7 (2)	11 (2)	6 (2)	9 (2)
			Low	kPa	-					
			Mediu m	kPa	-					
			High	kPa	-					
			Super high	kPa	-					

2 Specifications

2-1 Technical Specifications				FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Water pressure drop	Cooling	Rated	kPa	-					
	Heating	Rated	kPa	-					
Fan	Type			Centrifugal					
	Quantity			1			2		
	Air flow rate	Fan speed 1	m³/h	184			283	331	
		Fan speed 2	m³/h	210			371	385	
		Fan speed 3	m³/h	228			455		
		Fan speed 4	m³/h	267			576		
		Fan speed 5	m³/h	297			607		
		Fan speed 6	m³/h	324	345		633		
		Fan speed 7	m³/h	371			722		
	Available static pressure	Fan speed 1	Pa	19			16		
		Fan speed 2	Pa	25			30	27	
		Fan speed 3	Pa	33			40		
		Fan speed 4	Pa	38			50		
		Fan speed 5	Pa	50			58		
		Fan speed 6	Pa	66	60		70		
		Fan speed 7	Pa	78	70		79		
		Low	Pa	-					
		Medium	Pa	-					
		High	Pa	-					
		Super high	Pa	-					
Fan motor	Motor efficiency	Fan speed 1	%	-					
		Fan speed 2	%	-					
		Fan speed 3	%	-					
		Fan speed 4	%	-					
		Fan speed 5	%	-					
		Fan speed 6	%	-					
		Fan speed 7	%	-					
		Super high	%	-					
Air filter	Type			Acrylic fiber - Filtering class G2 (G3 on request)					
	Grade			-					
Total sound power level	Fan speed 1		dBA	36 (3)		38 (3)	39 (3)		
	Fan speed 2		dBA	40 (3)			43 (3)		
	Fan speed 3		dBA	43 (3)			47 (3)		
	Fan speed 4		dBA	46 (3)			52 (3)		
	Fan speed 5		dBA	50 (3)			54 (3)		
	Fan speed 6		dBA	52 (3)			56 (3)		
	Fan speed 7		dBA	58 (3)			60 (3)		
	Low		dBA	-					
	Medium		dBA	-					
	High		dBA	-					
	Super high		dBA	-					
Inlet section + radiated sound power	Fan speed 1		dBA	33 (3)		36 (3)	37 (3)		
	Fan speed 2		dBA	37 (3)		38 (3)	41 (3)		
	Fan speed 3		dBA	40 (3)		41 (3)	45 (3)		
	Fan speed 4		dBA	42 (3)			49 (3)		
	Fan speed 5		dBA	46 (3)			51 (3)		
	Fan speed 6		dBA	49 (3)			53 (3)		
	Fan speed 7		dBA	55 (3)			57 (3)		
	Low		dBA	-					
	Medium		dBA	-					
	High		dBA	-					
	Super high		dBA	-					

2 Specifications

2-1 Technical Specifications				FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Outlet section sound power	Fan speed 1		dBA	33 (3)			34 (3)		
	Fan speed 2		dBA	37 (3)		35 (3)	38 (3)		
	Fan speed 3		dBA	40 (3)		38 (3)	42 (3)		
	Fan speed 4		dBA	43 (3)		41 (3)	49 (3)		
	Fan speed 5		dBA	47 (3)			51 (3)		
	Fan speed 6		dBA	49 (3)			53 (3)		
	Fan speed 7		dBA	55 (3)			57 (3)		
	Low		dBA	-					
	Medium		dBA	-					
	High		dBA	-					
	Super high		dBA	-					
Sound pressure level	Fan speed 1		dBA	31 (4)		33 (4)	34 (4)		
	Fan speed 2		dBA	35 (4)			38 (4)		
	Fan speed 3		dBA	38 (4)			42 (4)		
	Fan speed 4		dBA	41 (4)			47 (4)		
	Fan speed 5		dBA	45 (4)			49 (4)		
	Fan speed 6		dBA	47 (4)			51 (4)		
	Fan speed 7		dBA	53 (4)			55 (4)		
Piping connections	Drain	OD	mm	17					
Insulation material				Closed cells poliethilene					
Water connections	Primary coil		inch	3/4 "					
Allowed water temperature	Cooling	Min.	°C	5					
		Max.	°C	95.0					
	Heating	Min.	°C	5.00					
		Max.	°C	95.000					
Water content	Primary coil		dm³	1.10	1.50	2.20	1.60	2.10	3.20

2-2 Electrical Specifications				FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Fan motor	Power input	Fan speed 1	kW	-					
		Fan speed 2	kW	-					
		Fan speed 3	kW	-					
		Fan speed 4	kW	-					
		Fan speed 5	kW	-					
		Fan speed 6	kW	-					
		Fan speed 7	kW	-					
		Super high	kW	-					
	Running current	Fan speed 1	A	-					
		Fan speed 2	A	-					
		Fan speed 3	A	-					
		Fan speed 4	A	-					
		Fan speed 5	A	-					
		Fan speed 6	A	-					
		Fan speed 7	A	-					
		Super high	A	-					
Electric heater	Type			230 / 1 / 50					
	Phase			1					
	Frequency		Hz	50					
	Power input		kW	2.0			2.5		
	Current		A	8.7			10.9		
Power supply	Type			230 / 1 / 50					
	Phase			1~					
	Frequency		Hz	50					

2 Specifications

2-2 Electrical Specifications			FWP02AT	FWP03AT	FWP04AT	FWP05AT	FWP06AT	FWP07AT
Current input	Fan speed 1	A	-					
	Fan speed 2	A	-					
	Fan speed 3	A	-					
	Fan speed 4	A	-					
	Fan speed 5	A	-					
	Fan speed 6	A	-					
	Fan speed 7	A	-					
Required wire section		mm²	0.5					
Maximum absorbed current		A	0.610					

Notes

(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) Sound power level according to ISO3741

(4) The sound pressure level is measured via a microphone at 1m distance of the unit.

3 Options

3 - 1 Options

Electric heater

FWP-AT	Power input electric heater	Current Absorption	Power supply
Unit	kW	A	V / f / Hz
FWP02AT	2.0	8.7	230 - 1 - 50
FWP03AT	2.0	8.7	
FWP04AT	2.0	8.7	
FWP05AT	2.5	10.9	
FWP06AT	2.5	10.9	
FWP07AT	2.5	10.9	

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FWP-AT
Accessory table

Description	02	03	04	05	06	07
Additional heat exchanger	EAH04A6			EAH07A6		
3-way valve cooling h/e	factory mounted					
3-way valve add. h/e	E2MV307A6					
2-way valve cooling h/e	factory mounted					
2-way valve add. h/e	E2MV207A6					
Electric heater	factory mounted					
Controller - Advanced plus version	FWEC3A					
Temperature sensor kit	FWTSKA					
Relative humidity sensor kit	FWHSKA					
Wall mounting kit for controller	FWFCKA					

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3 Options

3 - 1 Options

FWP-AT
Cross reference table

Description		Additional heat exchanger	3-way valve add. h/e	2-way valve add. h/e	Fcu controller - Advanced plus version	Temperature sensor kit	Relative humidity sensor kit	Fcu relative humidity sensor kit
		EAH..A6	E2MV3..A6	E2MV2..A6	FWEC3A	FWTSKA	FWHSKA	FWFCKA
Additional heat exchanger	EAH..A6		X	X	X	X	X	X
3-way valve add. h/e	E2MV3..A6	X			X	X	X	X
2-way valve add. h/e	E2MV2..A6	X			X	X	X	X
Fcu controller - Advanced plus version	FWEC3A	X	X	X		X	X	X
Temperature sensor kit	FWTSKA	X	X	X	X		X	X
Relative humidity sensor kit	FWHSKA	X	X	X	X	X		X
Wall mounting kit for controller	FWFCKA	X	X	X	X	X	X	

4TW60299-2A(2/2)

4 Capacity tables

4 - 1 Cooling Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		25 - 18															
Water temperature (Entering °C - leaving °C)		6 - 11				7 - 12				8 - 13				9 - 14			
Model	Air flow	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop
	m^3/h	W	W	l/h	kPa	W	W	l/h	kPa	W	W	l/h	kPa	W	W	l/h	kPa
FWP02AT	300	1900	1350	326	4	1590	1230	273	3	1410	1150	242	3	1230	1080	211	2
	400	2490	1750	427	7	2130	1610	366	5	1710	1440	294	4	1400	1330	240	3
	500	3020	2120	517	10	2610	1960	448	8	2150	1770	368	5	1760	1760	303	4
FWP03AT	300	2320	1560	398	8	2060	1440	353	6	1760	1320	302	5	1460	1200	250	3
	400	3020	2030	518	13	2690	1890	461	10	2320	1730	398	8	1890	1560	325	6
	500	3670	2470	630	18	3270	2300	561	15	2830	2120	487	11	2340	1920	402	8
FWP04AT	300	2540	1670	436	6	2270	1550	390	5	2000	1430	344	4	1770	1340	304	3
	400	3360	2210	576	10	3020	2060	518	8	2640	1890	453	7	2190	1710	377	5
	500	4140	2740	710	15	3730	2550	639	12	3270	2350	561	10	2750	2140	473	7
FWP05AT	600	3810	2650	653	9	3300	2440	566	7	2700	2210	464	5	2170	2170	372	3
	800	4870	3370	834	14	4250	3120	729	11	3560	2850	611	8	2710	2530	465	5
	1000	5830	4020	1000	19	5100	3730	875	15	4300	3420	739	11	3380	3070	581	7
FWP06AT	600	3870	2740	663	4	3280	2500	562	3	2910	2350	499	3	2530	2200	434	2
	800	5180	3610	889	7	4410	3290	757	5	3360	2870	577	3	2870	2690	493	2
	1000	6360	4380	1091	10	5480	4020	940	8	4450	3610	763	5	3680	3680	632	4
FWP07AT	600	4770	3180	817	8	4230	2940	727	7	3620	2680	622	5	3050	2450	523	4
	800	6230	4150	1069	13	5560	3860	955	11	4830	3550	829	9	3970	3200	681	6
	1000	7600	5070	1304	19	6800	4720	1167	16	5920	4350	1017	12	4930	3950	847	9

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Total cooling capacity (W)
   Gesamt-Kühlleistung (W)
   Συνολική ψυκτική απόδοση (W)
   Capacidad de refrigeración total (W)
   Puissance frigorifique totale (W)
   Capacità di raffrescamento totale (W)
   Totaal koelvermogen (W)
   Общая холодопроизводительность (Вт)
   Toplam soğutma kapasitesi (W)

6. Sensible cooling capacity (W)
   Sensible Kühlleistung (W)
   Απόδοση ευαισθησίας ψύξης (W)
   Capacidad de refrigeración sensible (W)
   Puissance frigorifique sensible (W)
   Capacità di raffrescamento sensibile (W)
   Koelvermogen gevoelige modus (W)
   Холодопроизводительность по ощутимому теплу (Вт)
   Hissedilebilir soğutma kapasitesi (W)

7. Water flow (l/h)
   Wasserdurchfluss (l/h)
   Παροχή νερού (l/h)
   Caudal de agua (l/h)
   Débit de l'eau (l/h)
   Portata acqua (L/ora)
   Waterdebiet (l/u)
   Расход воды (л/ч)
   Su akışı (l/h)

8. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(1/6)

4 Capacity tables

4 - 1 Cooling Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		27 - 19															
Water temperature (Entering °C - leaving °C)		6 - 11				7 - 12				8 - 13				9 - 14			
Model	Air flow	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop	Total cooling capacity	Sensible cooling capacity	Water flow	Water presure drop
	m^3/h	W	W	ℓ/h	kPa	W	W	ℓ/h	kPa	W	W	ℓ/h	kPa	W	W	ℓ/h	kPa
FWP02AT	300	2260	1560	388	6	2010	1460	345	5	1710	1340	293	4	1440	1230	247	3
	400	2920	2010	501	9	2610	1880	448	8	2250	1740	386	6	1840	1580	315	4
	500	3530	2430	605	13	3160	2270	542	11	2740	2110	470	8	2270	1930	390	6
FWP03AT	300	2660	1760	456	10	2420	1660	415	9	2150	1540	369	7	1840	1420	317	5
	400	3450	2290	591	16	3140	2160	539	14	2790	2010	479	11	2420	1860	416	8
	500	4190	2790	719	23	3820	2630	655	19	3400	2450	583	15	2950	2270	507	12
FWP04AT	300	2880	1880	494	8	2640	1770	453	7	2370	1650	407	6	2050	1520	353	4
	400	3790	2490	651	13	3490	2340	598	11	3130	2190	538	9	2750	2030	472	7
	500	4680	3070	802	18	4290	2890	737	16	3860	2700	663	13	3400	2510	584	10
FWP05AT	600	4460	3030	765	12	3990	2840	685	10	3480	2630	597	8	2890	2410	497	6
	800	5670	3840	972	18	5080	3600	873	15	4460	3350	765	12	3760	3090	646	9
	1000	6780	4580	1162	25	6080	4300	1044	21	5340	4010	918	16	4540	3700	779	12
FWP06AT	600	4680	3200	804	6	4120	2960	706	5	3420	2680	587	3	2970	2510	510	3
	800	6130	4150	1053	9	5450	3870	936	8	4690	3560	805	6	3750	3200	644	4
	1000	7470	5020	1282	13	6670	4680	1144	11	5780	4330	993	8	4770	3940	820	6
FWP07AT	600	5450	3590	935	11	4960	3370	852	9	4430	3140	760	7	3830	2890	657	6
	800	7100	4680	1218	17	6470	4400	1111	14	5800	4110	995	12	5060	3810	868	9
	1000	8660	5700	1486	24	7900	5370	1355	20	7080	5020	1215	17	6190	4660	1063	13

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Total cooling capacity (W)
   Gesamt-Kühlleistung (W)
   Συνολική ψυκτική απόδοση (W)
   Capacidad de refrigeración total (W)
   Puissance frigorifique totale (W)
   Capacità di raffrescamento totale (W)
   Totaal koelvermogen (W)
   Общая холодопроизводительность (Вт)
   Toplam soğutma kapasitesi (W)

6. Sensible cooling capacity (W)
   Sensible Kühlleistung (W)
   Απόδοση ευαισθησίας ψύξης (W)
   Capacidad de refrigeración sensible (W)
   Puissance frigorifique sensible (W)
   Capacità di raffrescamento sensibile (W)
   Koelvermogen gevoelige modus (W)
   Холодопроизводительность по ощутимому теплу (Вт)
   Hissedilebilir soğutma kapasitesi (W)

7. Water flow (ℓ/h)
   Wasserdurchfluss (ℓ/h)
   Παροχή νερού (ℓ/h)
   Caudal de agua (ℓ/h)
   Débit de l'eau (ℓ/h)
   Portata acqua (L/ora)
   Waterdebiet (ℓ/u)
   Расход воды (л/ч)
   Su akışı (l/h)

8. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(2/6)

4 Capacity tables

4 - 2 Heating Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		19											
Water temperature (Entering °C - leaving °C)		50 - 45			60 - 50			70 - 60			90 - 70		
Model	Air flow	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop
	m^3/h	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa
FWP02AT	300	2230	388	5	3450	301	3	4420	388	5	5950	263	2
	400	2830	493	8	4370	382	5	5600	491	7	7520	332	3
	500	3380	588	10	5220	456	6	6690	587	9	8950	395	5
FWP03AT	300	2420	421	7	3770	329	5	4770	419	7	6500	287	3
	400	3120	543	11	4850	424	7	6150	540	10	8340	368	5
	500	3780	657	16	5860	512	10	7450	654	14	10070	444	7
FWP04AT	300	2560	445	5	4010	350	3	5040	442	5	6930	306	2
	400	3360	585	9	5260	460	5	6620	581	8	9080	401	4
	500	4140	720	12	6460	565	8	8150	715	11	11140	492	6
FWP05AT	600	4250	739	9	6580	574	6	8400	737	9	11290	498	4
	800	5340	928	14	8230	719	8	10550	926	13	14110	623	6
	1000	6330	1100	19	9740	851	11	12520	1098	17	16680	737	8
FWP06AT	600	4610	802	5	7150	624	3	9140	802	4	12340	545	2
	800	5900	1026	7	9130	798	5	11660	1023	7	15690	692	3
	1000	7080	1231	10	10940	955	6	14000	1229	9	18770	829	4
FWP07AT	600	4930	856	8	7680	671	5	9710	852	7	13260	585	3
	800	6380	1110	12	9930	868	7	12570	1103	11	17090	755	5
	1000	7750	1348	17	12040	1053	10	15280	1341	15	20710	914	7

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Heating capacity (W)
   Heizleistung (W)
   Απόδοση θέρμανσης (W)
   Capacidad de calefacción (W)
   Capacité de chauffage (W)
   Capacità di riscaldamento (W)
   Verwarmingsvermogen (W)
   Теплопроизводительность (Вт)
   Isıtma kapasitesi (W)

6. Water flow (ℓ/h)
   Wasserdurchfluss (ℓ/h)
   Παροχή νερού (ℓ/h)
   Caudal de agua (ℓ/h)
   Débit de l'eau (ℓ/h)
   Portata acqua (L/ora)
   Waterdebiet (ℓ/u)
   Расход воды (л/ч)
   Su akışı (l/h)

7. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(3/6)

4 Capacity tables

4 - 2 Heating Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		20											
Water temperature (Entering °C - leaving °C)		50 - 45			60 - 50			70 - 60			90 - 70		
Model	Air flow	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop
	m^3/h	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa
FWP02AT	300	2130	370	5	3350	292	3	4320	379	4	5840	258	2
	400	2700	470	7	4240	371	4	5470	480	7	7380	326	3
	500	3230	562	10	5060	442	6	6530	573	9	8780	388	4
FWP03AT	300	2310	402	7	3660	320	4	4660	409	6	6380	282	3
	400	2980	519	11	4710	412	7	6010	527	10	8190	362	5
	500	3610	628	15	5690	497	9	7280	638	14	9890	436	7
FWP04AT	300	2450	426	5	3890	340	3	4930	432	5	6810	301	2
	400	3220	560	8	5110	446	5	6470	567	8	8920	394	4
	500	3960	689	12	6280	549	7	7960	698	11	10940	483	5
FWP05AT	600	4060	707	9	5820	508	8	8200	720	8	11080	489	4
	800	5100	886	13	7990	698	8	10310	904	12	13860	612	6
	1000	6040	1051	17	9450	826	11	12220	1072	16	16380	723	8
FWP06AT	600	4410	766	4	6610	578	12	8920	783	4	12110	535	2
	800	5640	980	7	8850	774	4	11390	999	7	15400	680	3
	1000	6760	1176	9	10610	927	6	13680	1199	9	18430	814	4
FWP07AT	600	4710	819	7	7400	646	10	9480	832	7	13020	575	3
	800	6110	1062	11	9650	843	7	12280	1077	10	16790	741	5
	1000	7410	1290	15	11700	1022	10	14920	1309	15	20340	898	7

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Heating capacity (W)
   Heizleistung (W)
   Απόδοση θέρμανσης (W)
   Capacidad de calefacción (W)
   Capacité de chauffage (W)
   Capacità di riscaldamento (W)
   Verwarmingsvermogen (W)
   Теплопроизводительность (Вт)
   Isıtma kapasitesi (W)

6. Water flow (ℓ/h)
   Wasserdurchfluss (ℓ/h)
   Παροχή νερού (ℓ/h)
   Caudal de agua (ℓ/h)
   Débit de l'eau (ℓ/h)
   Portata acqua (L/ora)
   Waterdebiet (ℓ/u)
   Расход воды (л/ч)
   Su akışı (l/h)

7. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(4/6)

4 Capacity tables

4 - 2 Heating Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		19											
Water temperature (Entering °C - leaving °C)		50 - 45			60 - 50			70 - 60			90 - 70		
Model	Air flow	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop
	m^3/h	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa
EAH04A6	300	1350	236	3	2050	179	2	2750	241	3	3550	157	1
	400	1590	277	4	2410	211	2	3220	282	4	4160	184	2
	500	1790	312	5	2710	237	3	3610	317	4	4670	206	2
EAH07A6	600	2630	457	4	3990	348	3	5270	462	4	6870	303	2
	800	3070	533	6	4660	408	3	6140	538	5	7980	352	2
	1000	3430	596	7	5210	455	4	6870	602	7	8900	393	3

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Heating capacity (W)
   Heizleistung (W)
   Απόδοση θέρμανσης (W)
   Capacidad de calefacción (W)
   Capacité de chauffage (W)
   Capacità di riscaldamento (W)
   Verwarmingsvermogen (W)
   Теплопроизводительность (Вт)
   Isıtma kapasitesi (W)

6. Water flow (ℓ/h)
   Wasserdurchfluss (ℓ/h)
   Παροχή νερού (ℓ/h)
   Caudal de agua (ℓ/h)
   Débit de l'eau (ℓ/h)
   Portata acqua (L/ora)
   Waterdebiet (ℓ/u)
   Расход воды (л/ч)
   Su akışı (l/h)

7. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(5/6)

4 Capacity tables

4 - 2 Heating Capacity Tables - 2-pipe

FWP-AT

Air temperature (°C DB - °C WB)		19											
Water temperature (Entering °C - leaving °C)		50 - 45			60 - 50			70 - 60			90 - 70		
Model	Air flow	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop	Heating capacity	Water flow	Water presure drop
	m^3/h	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa	W	ℓ/h	kPa
EAH04A6	300	1290	224	3	1980	173	2	2680	235	3	3480	153	1
	400	1510	263	3	2330	203	2	3140	275	3	4080	180	2
	500	1700	296	4	2620	229	3	3520	309	4	4580	202	2
EAH07A6	600	2500	434	4	3860	337	2	5140	451	4	6740	298	2
	800	2920	508	5	4510	394	3	5990	526	5	7830	346	2
	1000	3270	568	7	5040	441	4	6700	588	6	8740	386	3

NOTES - HINWEISE - ΣΗΜΕΙΩΣΕΙΣ - NOTAS - REMARQUES - NOTE - OPMERKINGEN - ПРИМЕЧАНИЯ - NOTLAR

1. Air temperature (°C DB - °C WB)
   Lufttemperatur (°C DB – °C WB)
   Θερμοκρασία αέρα (°C DB - °C WB)
   Temperatura del aire (°C BS - °C BH)
   Température de l'air (°C BS - °C BH)
   Temperatura aria (°C BS - °C BU)
   Luchttemperatuur (°CDB - °CNB)
   Температура воздуха (°C сух.т. - °C вл.т.)
   Hava sıcaklığı (°C DB - °C WB)

2. Water temperature (Entering °C - leaving °C)
   Wassertemperatur (Einlass °C – Auslass °C)
   Θερμοκρασία νερού (εισόδου °C - αναχώρησης °C)
   Temperatura del agua (entrada °C - salida °C)
   Température de l'eau (°C en entrée - °C en sortie)
   Temperatura acqua in uscita (Entrata °C - Uscita °C)
   Watertemperatuur (Ingaand °C - uitgaand °C)
   Температура воды (поступающая °C - на выходе °C)
   Su sıcaklığı (Giriş °C - Çıkış °C)

3. Model
   Modell
   Μοντέλο
   Modelo
   Modèle
   Modello
   Model
   Модель
   Model

4. Air flow (m^3/h)
   Luftstrom (m^3/h)
   Ροή αέρα (m3/h)
   Caudal de aire (m3/h)
   Débit de l'air (m^3/h)
   Portata d'aria (m3/ora)
   Luchtdebiet (m3/u)
   Расход воздуха (м3/час)
   Hava akışı (m3/h)

5. Heating capacity (W)
   Heizleistung (W)
   Απόδοση θέρμανσης (W)
   Capacidad de calefacción (W)
   Capacité de chauffage (W)
   Capacità di riscaldamento (W)
   Verwarmingsvermogen (W)
   Теплопроизводительность (Вт)
   Isıtma kapasitesi (W)

6. Water flow (ℓ/h)
   Wasserdurchfluss (ℓ/h)
   Παροχή νερού (ℓ/h)
   Caudal de agua (ℓ/h)
   Débit de l'eau (ℓ/h)
   Portata acqua (L/ora)
   Waterdebiet (ℓ/u)
   Расход воды (л/ч)
   Su akışı (l/h)

7. Water presure drop (kPa)
   Wasserdruckabfall (kPa)
   Πτώση πίεσης νερού (kPa)
   Caída de presión del agua (kPa)
   Baisse de la pression de l'eau (kPa)
   Perdita di carico dell'acqua (kPa)
   Waterdrukverlies (kPa)
   Уменьшение напора воды (кПа)
   Sı basıncı düşüşü (kPa)

4TW60292-1(6/6)

4 Capacity tables

4 - 3 Capacity Correction Factor

Cooling mode

Glycol percentage in weight	Freezing temperature (°C)	Capacity correction factor	Pressure drop correction factor
0	0	1	1.00
10	-4	0.93	1.09
20	-10	0.84	1.18
30	-16	0.76	1.27
40	-24	0.76	1.36

Heating mode

Glycol percentage in weight	Freezing temperature (°C)	Capacity correction factor	Pressure drop correction factor
0	0	1	1.00
10	-4	0.98	1.08
20	-10	0.97	1.11
30	-16	0.94	1.22
40	-24	0.91	1.33

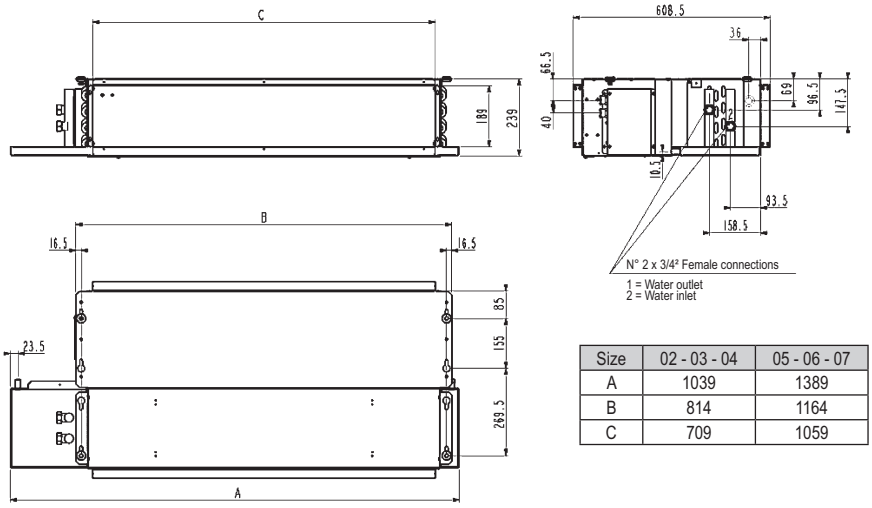
4TW60228-1B

Correction factors are based on an average value (at rated water flow rate). This can cause deviation depending on conditions used. The Fan Coil Selection software will provide an accurate result at all conditions.

5 Dimensional drawings

5 - 1 Dimensional Drawings

FWP-AT



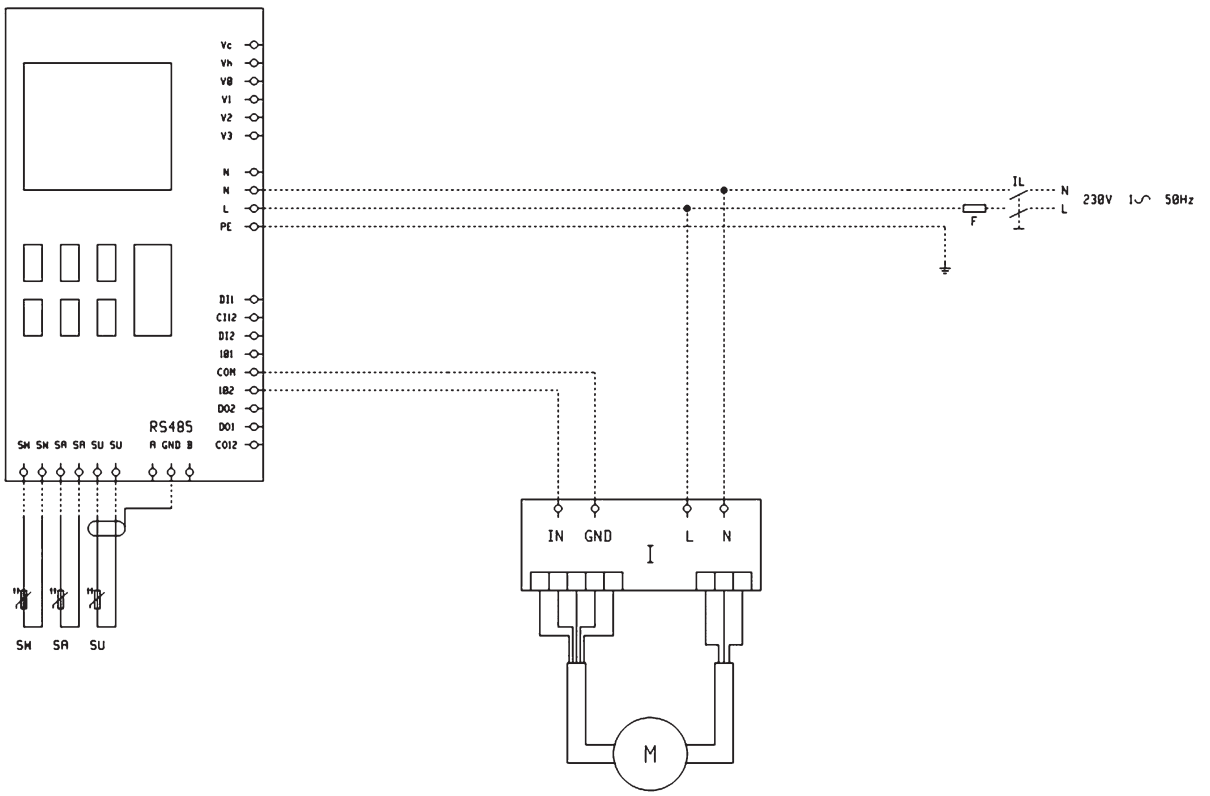
Size	02 - 03 - 04	05 - 06 - 07
A	1039	1389
B	814	1164
C	709	1059

4TW60294-1

6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

FWP-AT



4TW60296-1

7 Sound data

7 - 1 Sound Level Data - 2-pipe

FWP02-04AT

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
min	**Lw tot dB(A)**	**33**	**37**	**33**	**26**	**20**	**11**	**15**	**33**
	Outlet	29	34	30	23	18	9	12	-
	Structure	20	20	25	13	12	-	-	-
	Inlet	31	33	29	22	15	6	11	-
max	**Lw tot dB(A)**	**62**	**65**	**64**	**64**	**60**	**54**	**47**	**68**
	Outlet	58	62	61	61	58	52	44	-
	Structure	45	48	56	46	52	36	30	-
	Inlet	60	60	60	60	55	49	43	-

To calculate the sound pressure you must define some conditions and use this formula $L_P = L_W - 10 \times Log_{10}\left(\frac{4\pi \times d^2}{Q}\right)$

Where: **Q** = direction factor : is Q=4 if the air outlet/inlet is placed near the corner of 2 walls (vertical or floor-ceiling), Q=2 if the air outlet/inlet is placed at the centeer of the wall (at floor or ceiling but faraway the 2° wall)

d = distance (mt) from the sound source and the measure point
Lp = sound pressure (dB A)
Lw = sound power (dB A)

Conditions of measurements:
ISO3741: the sound power is calculated WITHOUT any additional inlet or outlet grill or plenum
blank = Not Measurable

4TW60297-1A

FWP05-07AT

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
min	**Lw tot dB(A)**	**33**	**37**	**33**	**26**	**20**	**11**	**15**	**33**
	Outlet	29	34	30	23	18	9	12	-
	Structure	20	20	25	13	12	-	-	-
	Inlet	31	33	29	22	15	6	11	-
max	**Lw tot dB(A)**	**65**	**69**	**67**	**67**	**63**	**57**	**51**	**71**
	Outlet	61	66	64	64	61	55	48	-
	Structure	48	51	59	49	55	40	34	-
	Inlet	63	65	63	63	57	53	46	-

To calculate the sound pressure you must define some conditions and use this formula $L_P = L_W - 10 \times Log_{10}\left(\frac{4\pi \times d^2}{Q}\right)$

Where: **Q** = direction factor : is Q=4 if the air outlet/inlet is placed near the corner of 2 walls (vertical or floor-ceiling), Q=2 if the air outlet/inlet is placed at the centeer of the wall (at floor or ceiling but faraway the 2° wall)

d = distance (mt) from the sound source and the measure point
Lp = sound pressure (dB A)
Lw = sound power (dB A)

Conditions of measurements:
ISO3741: the sound power is calculated WITHOUT any additional inlet or outlet grill or plenum
blank = Not Measurable

4TW60297-1A

8 Installation

8 - 1 Installation Method

BEFORE THE INSTALLATION

The equipment is to be installed and serviced exclusively by technical personnel who are qualified for using this type of machine, in compliance with the relevant local and national regulations.
On receiving the equipment, check its state ensuring that it was not damaged during transport. Refer to the associated technical sheets for the installation and use instructions of any accessories.

INTENDED CONDITIONS OF USE AND OPERATING LIMITS

No responsibility is assumed if the equipment is installed by unqualified personnel, if it is used improperly or under inadmissible conditions, if maintenance is not performed as envisaged in this manual or if original spare parts are not used. For the operating limits please refer to the appropriate chapter. Any other use is considered improper.
Keep the equipment inside the packing until it is ready to be installed so that dust will not infiltrate.
Air sucked by the equipment must always be filtered. Use, when possible, the specific accessories.
If not used during the winter, drain the water from the system to prevent damage caused by the formation of ice. If antifreeze solutions are used, check the freezing point.
Do not change the internal wiring or other parts of the equipment.

INSTALLATION WARNING:
On the thermal-ventilating unit install a switch (IL) and/or all remote controls in a position out of the reach of persons who are in a bathtub or shower.

The FWP units may be installed only in horizontal position. Check that the desired installation complies with one of the diagrams shown in the installation manual.

FIXING the unit
Fix the standard unit to the ceiling or wall using at least 4 of the 6 slots.;
For the installation (ceiling-mounting) it is advisable to use M8 threaded bars, screw anchors suitable for the machine's weight, and to arrange for the positioning of the machine using 2 M8 bolts and a washer the diameter of which is suitable for inserting the slot and for then fixing the unit.
Before tightening the check nut, adjust the closing of the main nut so that the equipment will slant correctly, i.e. for facilitating the discharging of the condensate.
The correct slant is achieved by tilting the intake downwards as compared to the delivery, until a difference in level of about 10 mm is obtained from one end to the other. Make the hydraulic connections with the heat exchanger and, for cooling operations, with the condensate discharge.
Use one of the two drains of the auxiliary tank, visible on the outside of the unit's side panels and vertical condensate discharge.

4TW60299-3 (1/2)

8 Installation

8 - 1 Installation Method

A few rules to follow

Carry out the heat exchanger's air exhaust, with pumps stopped, by means of the air valves located adjacent to the attachments of the heat exchanger itself.

When implementing a duct system, it is advisable to place the vibration-damping joints between the ducting and the unit. If you wish to install an electrical resistance module as accessory, the delivery vibration-damping joint should be heat-resistant. The ducting, especially the delivery one, should be insulated with anticondensing material.

Provide an inspection panel adjacent to the equipment for the maintenance and cleaning operations.

Install the control panel on the wall. Choose a position that is easy to access for the setting of the functions and, if contemplated, for the reading of the temperature. Try to avoid positions that are directly exposed to sun rays, or positions subject to direct hot or cold air currents, and do not place obstacles in the way that would prevent the correct reading of the temperature.

ELECTRICAL CONNECTIONS

Make the electrical connections with voltage OFF, in compliance with the relevant local and national regulations.

Exclusively qualified personnel should carry out the wiring operations. **Each fancoil unit requires a switch (IL) on the feeder line with a distance of at least 3 mm between the opening contacts, and a suitable safety fuse (F).**

Power consumption is shown on the data plate fixed to the unit. Make sure to carefully execute the wiring in function of the combination unit/controller and this according to the correct wiring diagram delivered with every accessory. In order to make the electrical connections you must remove the lower closing panel to access the terminal board. The power cables (power supply and control) must be routed to the terminal board through the cable grip that is on the side panel of the machine on the same side of the hydraulic connections.

WARNING

The COMMON wire of the motor is the WHITE one: if connected incorrectly the motor would be damaged irreparably. See wiring diagrams for color codes.

FUNCTIONAL CHECKS

Check that the equipment has been installed so that it guarantees the required slant.

Check that the condensate discharge is not clogged (by rubble deposits, etc.).

Check the seal of the hydraulic connections.

Check that all the wirings are tight (perform the check with voltage OFF).

Make sure air has been purged from the heat exchanger.

Power the equipment and check its working efficiency.

Installation & service distances for FWP units

Consider at least

- 500 mm free space on water connections side (piping & connections) measured from the boundary of the drain pan.
- 200 mm free space on the opposite side (to unscrew heat exchangers or fan deck in case of repairing)
- Possibility to extract filter for cleaning has to be considered
- Possibility to reach the unit for ordinary and extraordinary maintenance (for instance removing front panels) has to be considered

4TW60229-3 (2/2)

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EEDEN17 05/17

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