DAIKIN

Applied Systems
Technical Data

FWN-AT/AF

> FWN04AAFN6V3
> FWN05AAFN6V3
> FWN06AAFN6V3
> FWN07AAFN6V3
> FWN08AAFN6V3
> FWN10AAFN6V3

> FWN04AATN6V3
> FWN05AATN6V3
> FWN06AATN6V3
> FWN07AATN6V3
> FWN08AATN6V3
> FWN10AATN6V3

TABLE OF CONTENTS

FWN-AT/AF

1 Features 2
FWN-AF/AT 2

2 Specifications 3
Technical Specifications 3
Technical Specifications 4
Electrical Specifications 5
Electrical Specifications 5

3 Electrical data 6

4 Options 7

5 Dimensional drawings 8

6 Installation 9
Installation Method 9

7 Operation range 13

1 Features

1 - 1 FWN-AF/AT

- Up to 70% 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
- The air filter can easily be removed for cleaning
- Straight duct connector mounted to discharge side

2 Specifications

2-1 Technical Specifications					FWN04AF	FWN05AF	FWN06AF	FWN07AF	FWN08AF	FWN10AF
Cooling capacity (standard conditions)	Latent capacity 4-pipe	High		kW	0.81 (1)	1.08 (1)	1.52 (1)	1.58 (1)	1.27 (1)	1.64 (1)
		Super high		kW	-				1.64 (1)	-
	Sensible capacity 4-pipe	Low		kW	2.18 (1)	2.52 (1)	3.84 (1)	4.30 (1)	4.96 (1)	5.34 (1)
		Medium		kW	2.68 (1)	3.17 (1)	4.15 (1)	4.66 (1)	5.52 (1)	5.98 (1)
		High		kW	2.95 (1)	3.53 (1)	4.39 (1)	4.97 (1)	6.19 (1)	6.71 (1)
	Total capacity 4-pipe	Low		kW	2.82 (1)	3.36 (1)	5.17 (1)	5.71 (1)	6.14 (1)	6.77 (1)
		Medium		kW	3.44 (1)	4.17 (1)	5.58 (1)	6.17 (1)	6.75 (1)	7.52 (1)
		High		kW	3.76 (1)	4.61 (1)	5.91 (1)	6.55 (1)	7.46 (1)	8.35 (1)
Heating capacity (standard conditions)	Capacity 4-pipe	Low		kW	3.23 (2)		5.25 (2)	5.21 (2)	7.02 (2)	6.99 (2)
		Medium		kW	3.68 (2)	3.66 (2)	5.51 (2)	5.45 (2)	7.47 (2)	7.44 (2)
		High		kW	3.91 (2)	3.89 (2)	5.72 (2)	5.65 (2)	7.99 (2)	7.94 (2)
Power input	Low			kW	0.45	0.40	0.10		0.12	
	Medium			kW	0.73		0.13		0.17	
	High			kW	0.112		0.152		0.248	
Dimensions	Unit	Height		mm	559					
		Width		mm	754		964		1,170	
		Depth		mm	280					
Weight	Unit			kg	34.7	35.5	43.2	44.4	50.3	51.7
Casing	Material				Galvanised steel					
Heat exchanger	Type				Cross fin coil					
	Rows	Quantity			3	4	3	4	3	4
	Fin	Type			Aluminium					
	Tube material				Copper					
	Water volume			l	1	2				3
Additional heat exchanger	Rows	Quantity			1					
	Water volume			l	1					
Water flow	Cooling	Low		l/h	491 (1)	584 (1)	904 (1)	998 (1)	1,075 (1)	1,185 (1)
		Medium		l/h	602 (1)	727 (1)	978 (1)	1,079 (1)	1,187 (1)	1,319 (1)
		High		l/h	666 (1)	810 (1)	1,040 (1)	1,148 (1)	1,322 (1)	1,476 (1)
	Heating	High		l/h	342 (2)	340 (2)	501 (2)	496 (2)	700 (2)	695 (2)
		Low		l/h	283 (2)		460 (2)	456 (2)	614 (2)	612 (2)
		Medium		l/h	322 (2)	320 (2)	483 (2)	477 (2)	654 (2)	651 (2)
	Water pressure drop	Cooling	Low	kPa	10 (1)	8 (1)	18 (1)	15 (1)	16 (1)	10 (1)
			Medium	kPa	14 (1)	12 (1)	21 (1)	17 (1)	19 (1)	13 (1)
			High	kPa	7 (1)		14 (1)	12 (1)	10 (1)	25 (1)
		Heating	Low	kPa	5 (2)		12 (2)	10 (2)	8 (2)	20 (2)
			Medium	kPa	6 (2)		13 (2)	11 (2)	9 (2)	22 (2)
			High	kPa	7 (2)		14 (2)	12 (2)	10 (2)	25 (2)
Fan	Type				Centrifugal					
	Quantity				1		2			
	Air flow rate	Low		m³/h	531	529	1,005	985	1,192	1,184
		Medium		m³/h	694	686	1,115	1,088	1,362	1,349
		High		m³/h	793	783	1,211	1,182	1,576	1,550
	Available static pressure	Low		Pa	29	30	41		38	
		Medium		Pa	50					
		High		Pa	65		59		67	66
Air filter	Type				Acrylic - Filtering class EU2					
Total sound power level	Low			dBA	54 (3)		59 (3)	61 (3)	62 (3)	
	Medium			dBA	61 (3)		63 (3)		67 (3)	
	High			dBA	66 (3)		69 (3)		72 (3)	
Inlet section + radiated sound power	Low			dBA	52 (3)		56 (3)		60 (3)	
	Medium			dBA	59 (3)		60 (3)		64 (3)	
	High			dBA	64 (3)		66 (3)		70 (3)	
Outlet section sound power	Low			dBA	51 (3)		55 (3)	59 (3)	58 (3)	
	Medium			dBA	58 (3)		59 (3)		63 (3)	
	High			dBA	63 (3)		65 (3)		69 (3)	

2 Specifications

2-1 Technical Specifications					FWN04AF	FWN05AF	FWN06AF	FWN07AF	FWN08AF	FWN10AF
Sound pressure level	Low			dBA	49 (4)		54 (4)	56 (4)	57 (4)	
	Medium			dBA	56 (4)		58 (4)		62 (4)	
	High			dBA	61 (4)		64 (4)		67 (4)	
Piping connections	Drain	OD		mm	17					
Water connections	Primary coil			inch	3/4 "					
	Additional 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	1.29	1.64	1.65	2.13	2.16	2.75
	Additional coil			dm³	0.93		1.05		1.17	

2-2 Technical Specifications					FWN04AT	FWN05AT	FWN06AT	FWN07AT	FWN08AT	FWN10AT
Power input	Low			kW	0.04		0.10		0.12	
	Medium			kW	0.07		0.13		0.17	
	High			kW	0.112		0.152		0.248	
Dimensions	Unit	Height		mm	559					
		Width		mm	754		964		1,170	
		Depth		mm	280					
Weight	Unit			kg	32.5	33.3	40.6	41.7	47.3	48.7
Casing	Material				Galvanised steel					
Heat exchanger	Type				Cross fin coil					
	Rows	Quantity			3	4	3	4	3	4
	Fin	Type			Aluminium					
	Tube material				Copper					
	Water volume			l	1	2				3
Water flow	Cooling	Low		l/h	493 (1)	587 (1)	915 (1)	1,008 (1)	1,085 (1)	1,197 (1)
		Medium		l/h	607 (1)	732 (1)	990 (1)	1,093 (1)	1,202 (1)	1,336 (1)
		High		l/h	671 (1)	817 (1)	1,059 (1)	1,169 (1)	1,344 (1)	1,501 (1)
	Heating	High		l/h	705 (5)	840 (5)	1,114 (5)	1,259 (5)	1,369 (5)	1,551 (5)
		Low		l/h	529 (5)	617 (5)	972 (5)	1,094 (5)	1,124 (5)	1,264 (5)
		Medium		l/h	641 (5)	758 (5)	1,048 (5)	1,183 (5)	1,236 (5)	1,397 (5)
	Water pressure drop	Cooling	Low	kPa	10 (1)	8 (1)	18 (1)	15 (1)	17 (1)	11 (1)
			Medium	kPa	14 (1)	12 (1)	21 (1)	17 (1)	20 (1)	13 (1)
			High	kPa	15 (1)	13 (1)	22 (1)	18 (1)	21 (1)	14 (1)
		Heating	Low	kPa	9 (5)	7 (5)	17 (5)	14 (5)	15 (5)	10 (5)
			Medium	kPa	13 (5)	11 (5)	19 (5)	17 (5)		12 (5)
			High	kPa	15 (5)	13 (5)	22 (5)	18 (5)	21 (5)	14 (5)
Fan	Type				Centrifugal					
	Quantity				1		2			
	Air flow rate	Low		m³/h	534	532	1,019	1,000	1,207	1,198
		Medium		m³/h	700	692	1,134	1,107	1,384	1,371
		High		m³/h	802	791	1,238	1,203	1,606	1,581
	Available static pressure	Low		Pa	29	30	40	41	38	
		Medium		Pa	50					
		High		Pa	65		59		67	66
Air filter	Type				Acrylic - Filtering class EU2					
Total sound power level	Low			dBA	54 (3)		59 (3)	61 (3)	62 (3)	
	Medium			dBA	61 (3)		63 (3)		67 (3)	
	High			dBA	66 (3)		69 (3)		72 (3)	
Inlet section + radiated sound power	Low			dBA	52 (3)		56 (3)		60 (3)	
	Medium			dBA	59 (3)		60 (3)		64 (3)	
	High			dBA	64 (3)		66 (3)		70 (3)	
Outlet section sound power	Low			dBA	51 (3)		55 (3)	59 (3)	58 (3)	
	Medium			dBA	58 (3)		59 (3)		63 (3)	
	High			dBA	63 (3)		65 (3)		69 (3)	

2 Specifications

2-2 Technical Specifications				FWN04AT	FWN05AT	FWN06AT	FWN07AT	FWN08AT	FWN10AT
Sound pressure level	Low		dBA	49 (4)		54 (4)	56 (4)	57 (4)	
	Medium		dBA	56 (4)		58 (4)		62 (4)	
	High		dBA	61 (4)		64 (4)		67 (4)	
Piping connections	Drain	OD	mm	17					
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	1.29	1.64	1.65	2.13	2.16	2.75

2-3 Electrical Specifications			FWN04AF	FWN05AF	FWN06AF	FWN07AF	FWN08AF	FWN10AF
Electric heater	Type		230 / 1 / 50					
	Phase		1					
	Frequency	Hz	50					
	Voltage	V	230					
	Power input	kW	2.0		6.0		9.0	
	Current	A	8.7		26.1		39.1	
Power supply	Type		230 / 1 / 50					
	Phase		1~					
	Frequency	Hz	50					
	Voltage	V	230					
Required wire section		mm²	1.0					
Maximum absorbed current		A	3.520					

2-4 Electrical Specifications			FWN04AT	FWN05AT	FWN06AT	FWN07AT	FWN08AT	FWN10AT
Electric heater	Type		230 / 1 / 50					
	Phase		1					
	Frequency	Hz	50					
	Voltage	V	230					
	Power input	kW	2.0		6.0		9.0	
	Current	A	8.7		26.1		39.1	
Power supply	Type		230 / 1 / 50					
	Phase		1~					
	Frequency	Hz	50					
	Voltage	V	230					
Required wire section		mm²	1.0					
Maximum absorbed current		A	1.830		3.520			

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. 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.

3 Electrical data

3 - 1 Electrical Data

FWN-AT/AF

		Power input electric heater	Current Absorption	Power supply
Unit	**Electric heater**	**kW**	**A**	**V / ~ / Hz**
FWN04AT/AF	EDEHS04A6	2.0	8.7	230V ±10% / 1~ / 50Hz
FWN05AT/AF	EDEHS04A6	2.0	8.7	230V ±10% / 1~ / 50Hz
FWN06AT/AF	EDEHS06A6	3.0	4.3	400V ±10% / 3~ / 50Hz
	EDEHB06A6	6.0	8.7	
FWN07AT/AF	EDEHS06A6	3.0	4.3	400V ±10% / 3~ / 50Hz
	EDEHB06A6	6.0	8.7	
FWN08AT/AF	EDEHS10A6	4.5	6.5	400V ±10% / 3~ / 50Hz
	EDEHB10A6	9.0	13.0	
FWN10AT/AF	EDEHS10A6	4.5	6.5	400V ±10% / 3~ / 50Hz
	EDEHB10A6	9.0	13.0	

4TW60221-3N

4 Options

4 - 1 Options

FWN-AT/AF

Description		Electric heater	2-pipes 230V ON-OFF 3 way valve	4-pipes 230V ON-OFF 3 way valve	Motorised fresh air intake louvers	Auxiliary drain pan (vertical models)	Auxiliary drain pan (horizontal models)
		EDEH(S)(B)...A6	ED2MV...A6	ED4MV...A6	EDMFA...A6	EDDPV...A6	EDDPV...A6
Electric heater	EDEH(S)(B)...A6		x	x	x	x	x
2-pipes 230V ON-OFF 3 way valve	ED2MV...A6	x			x	x	x
4-pipes 230V ON-OFF 3 way valve	ED4MV...A6	x			x	x	x
Motorised fresh air intake louvers	EDMFA...A6	x	x	x		x	x
Auxiliary drain pan (vertical models)	EDDPV...A6	x	x	x	x		
Auxiliary drain pan (horizontal models)	EDDPV...A6	x	x	x	x		
Controller - Advanced Plus version	FWEC3A	x	x	x	x	x	x
Split controller - power control board	FWECSAP	x	x	x	x	x	x
Split controller - control panel	FWECSAC	x	x	x	x	x	x
Controller temperature sensor kit	FWTSKA	x	x	x	x	x	x
Controller relative humidity sensor kit	FWHSKA	x	x	x	x	x	x
Controller wall mounting kit	FWFCKA	x	x	x	x	x	x

Description		Controller - Advanced Plus version	Split controller - power control board	Split controller - control panel	Controller temperature sensor kit	Controller relative humidity sensor kit	Controller wall mounting kit
		FWEC3A	FWECSAP	FWECSAC	FWTSKA	FWHSKA	FWFCKA
Electric heater	EDEH(S)(B)...A6	x	x	x	x	x	x
2-pipes 230V ON-OFF 3 way valve	ED2MV...A6	x	x	x	x	x	x
4-pipes 230V ON-OFF 3 way valve	ED4MV...A6	x	x	x	x	x	x
Motorised fresh air intake louvers	EDMFA..A6	x	x	x	x	x	x
Auxiliary drain pan (vertical models)	EDDPV...A6	x	x	x	x	x	x
Auxiliary drain pan (horizontal models)	EDDPV...A6	x	x	x	x	x	x
Controller - Advanced Plus version	FWEC3A				x	x	x
Split controller - power control board	FWECSAP			x	x	x	
Split controller - control panel	FWECSAC		x		x	x	
Controller temperature sensor kit	FWTSKA	x	x	x		x	x
Controller relative humidity sensor kit	FWHSKA	x	x	x	x		x
Controller wall mounting kit	FWFCKA	x			x	x	

4TW60229-2N_1

FWN-AT/AF

	FWN	04	05	06	07	08	10
Electric heater (*)	EDEH(S)(B)...A6	EDEH04A6		EDEH(S)(B)06A6		EDEH(S)(B)A10A6	
2-pipes 230V ON-OFF 3 way valve	ED2MV...A6	ED2MV04A6		ED2MV10A6			
4-pipes 230V ON-OFF 3 way valve	ED4MV...A6	ED4MV04A6		ED4MV10A6			
Motorised fresh air intake louvers	EDMFA...A6	EDMFA04A6		EDMFA06A6		EDMFA10A6	
Auxiliary drain pan (vertical models)	EDDPV...A6	EDDPV10A6					
Auxiliary drain pan (horizontal models)	EDDPV...A6	EDDPH10A7					
Controller - Advanced Plus version	FWEC3A	FWEC3A					
Split controller - power control board	FWECSAP	FWECSAP					
Split controller - control panel	FWECSAC	FWECSAC					
Controller temperature sensor kit	FWTSKA	FWTSKA					
Controller relative humidity sensor kit	FWHSKA	FWHSKA					
Controller wall mounting kit	FWFCKA	FWFCKA					

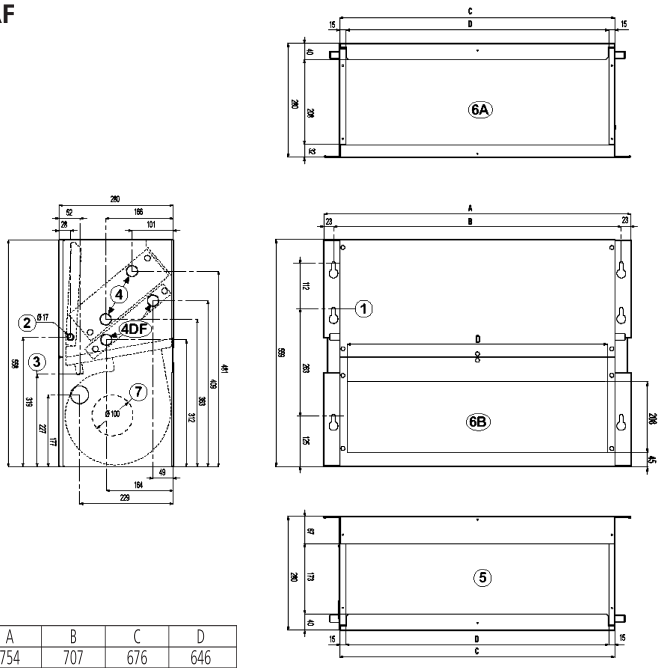
(*) Requires electronic controller

4TW60229-2N_2

5 Dimensional drawings

5 - 1 Dimensional Drawings

FWN-AT/AF



	A	B	C	D
FWN04 05	754	707	676	646
FWN06 07	964	917	886	856
FWN08 10	1174	1127	1096	1056

Hydraulic connections
Standard and additional heat exchanger: connection Male

FWN04	FWN05	FWN06	FWN07	FWN08	FWN10
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

Legend

1 6 fast-coupling slots
2 Condensate discharge - Horizontal installation
3 Condensate discharge - Vertical installation
4 Hydraulic connections
4 = standard heat exchanger
4 DF = supplementary heat exchanger
5 Air delivery
6 Air intake
6A = supply terms
6B = changeable during installation
7 Round pre-sheared element (Φ 100 mm) for fresh air intake

4TW60224-1N

6 Installation

6 - 1 Installation Method

FWN-AT/AF

Before installing the equipment

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 FWN units may be installed either in horizontal of vertical position. Check that the desired intallation complies with one of the diagrams shown in the installation manual, in wich both possible configurations, AA or AB, are suitable to work for heating and cooling.

AA (INTAKE IN LINE - DELIVERY IN LINE)
AB (AIR SUCTION AT 90° - AIR OUTLET IN LINE)

CONFIGURATION of the unit
The units are always supplied in AA configuration, but the air intake position may be changed during the installation.

FIXING the unit
Fix the standard unit to the ceiling or wall using at least 4 of the 6 slots.
For horizontal insta!lations (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
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.
For vertical installations (wall-mounting), fix the unit so that water may flow out toward the condensate discharge used. A slant equivalent to a difference in level of about 5 mm is enough between the two side panels.
The two condensate discharge tubes of the main tank are located inside the side panels and may be accessed through a membrane type passage that should be perforateed for passing the discharge tube through it. It is advisable not to remove the aforesaid passage because it prevents the sharp edge of the hole on the side panel from damaging the condensate discharge tube over time.
To connect the unit to the condensate discharge line, use a flexible rubber tube and fix it to the chosen discharge tube (f 3/8') by means of a metal clamp (use the discharge that is located on the hydraulic attachments side). To assist the draining of the condensate, slant the discharge tube downwards by at least 30 mm/m making sure that its entire route is clear and free from bends or blockages.

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.

4TW60229-3N_1

6 Installation

6 - 1 Installation Method

FWN-AT/AF

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.
Only 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 membrane passage that is on the side panel of the machine on the side opposite the hydraulic attachments.
WARNING
The COMMON wire of the motor is the WHITE one: if connected incorrectly the motor would be damaged irreparably.

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.
Make sure air has been purged from the heat exchanger.

4TW60229-3N_2

6 Installation

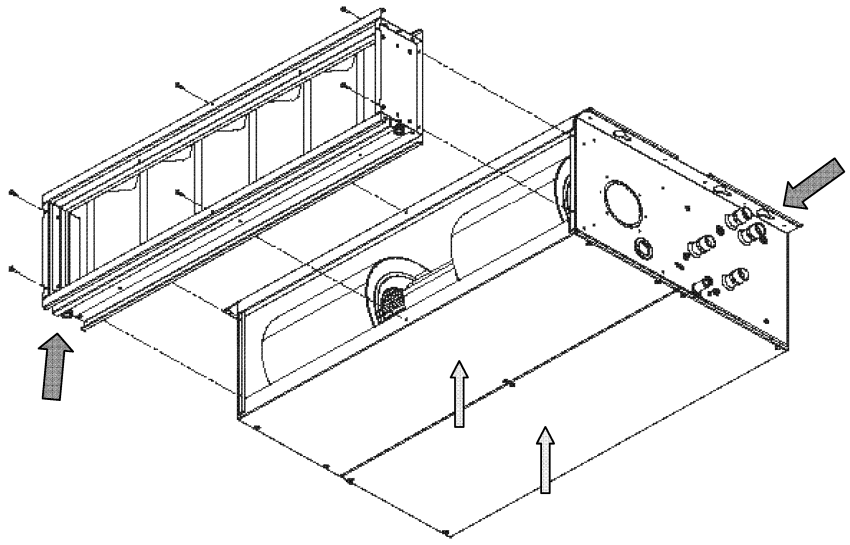
6 - 1 Installation Method

FWN-AT/AF

1. Ducted unit with filter only

Consider at least

1 500 mm free space on water connections side (piping & connections)
2 200 mm free space on the opposite side (to unscrew heat exchangers or fan deck in case of repairing)
3 Possibility to extract filter for cleaning has to be considered
4 Possibility to reach the unit for ordinary and extraordinary maintenance (for instance removing front panels) has to be considered



2. Ducted unit with filter and electric heater

Consider also

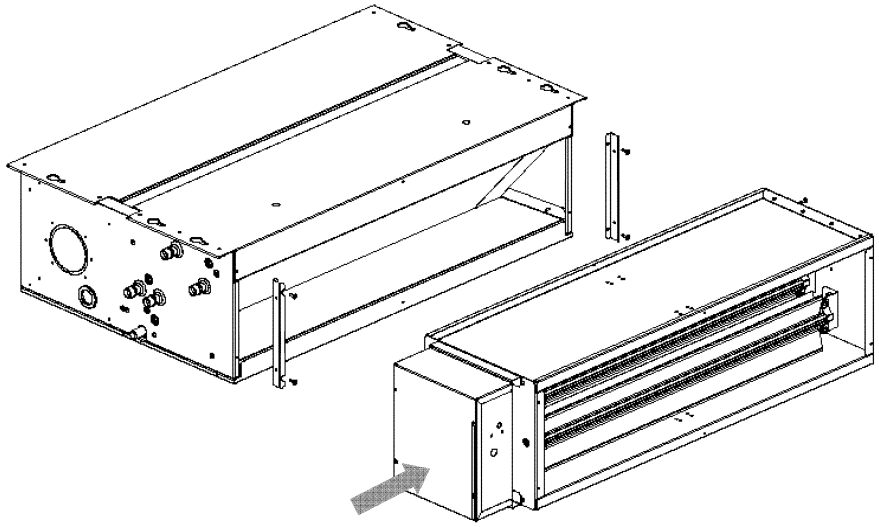
1 500 mm free space on water connections side (piping & connections), measured from the electrical box of the heating module (refer to option technical leaflet for details - total 620 mm)
2 200 mm free space on the opposite side (to unscrew heat exchangers or fan deck in case of repairing)
3 Possibility to extract filter for cleaning has to be considered
4 Possibility to reach the unit for ordinary and extraordinary maintenance (for instance removing front panels) has to be considered

4TW60229-3N_3

6 Installation

6 - 1 Installation Method

FWN-AT/AF



3. Ducted unit with filter and valves

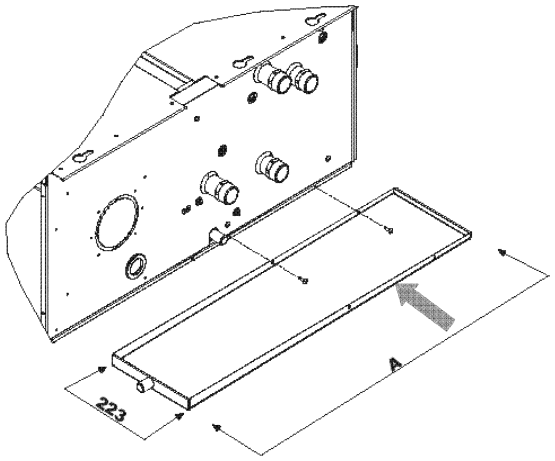
Consider also

1 500 mm free space on water connections side (piping & connections), measured from the valve piping (refer to option technical leaflet for details - total around 720 mm)

2 200 mm free space on the opposite side (to unscrew heat exchangers or fan deck in case of repairing)

3 Possibility to extract filter for cleaning has to be considered

4 Possibility to reach the unit for ordinary and extraordinary maintenance (for instance removing front panels) has to be considered



4TW60229-3N_4

7 Operation range

7 - 1 Operation Range

FWN-AT/AF

Operation range for FWN models

Minimum water temperature	+5°C
Maximum water temperature	+95°C
Maximum operating pressure	10 bar
Minimum air inlet temperature	-20°C
Maximum air inlet temperature	+43°C
Power supply	230V ±10% / 1~ / 50Hz

4TW60223-1N

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