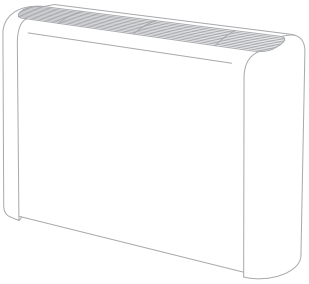
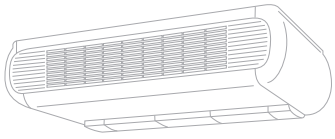
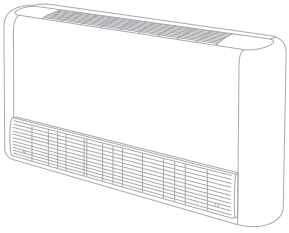
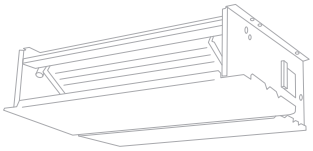
EPCE04-25A

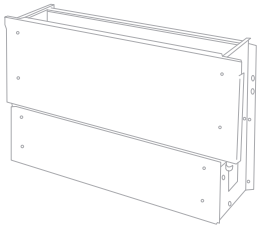


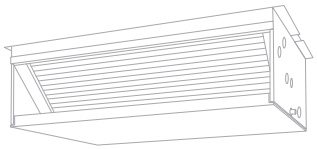
Fan coil units



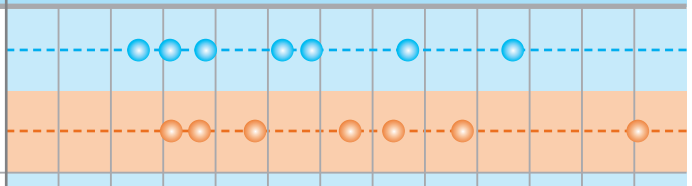
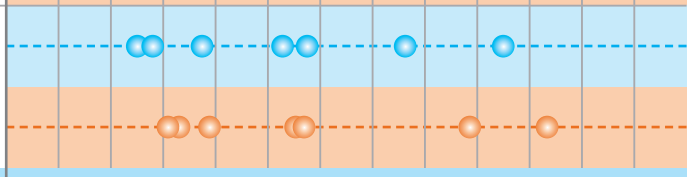
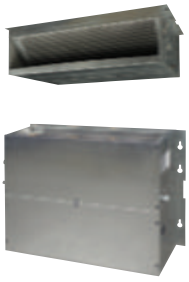
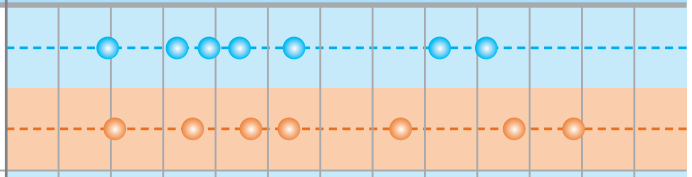
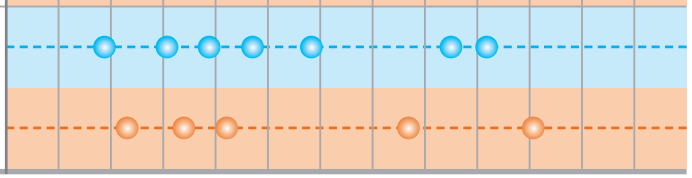








Product portfolio

Fan Coil		Reference	0 1 2 3 4 5 6 7 8 9 10 11 kW
FWV FWL FWM		2-pipe	
		4-pipe	
			2 4 6 8 10 12 14 16 18 20 22 24kW
FWD		2-pipe	
		4-pipe	

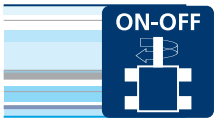
Cooling
Heating

Pictogrammes

Manual cool/heat changeover

Automatic cool/heat changeover based on water temperature

Automatic cool/heat changeover based on air temperature



Control of the 3-way/4-port ON/OFF valve. The water valve shut-off once the desired temperature is reached.

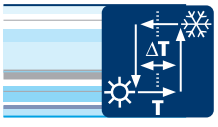
The controller controls the electric heater as integration or replacement of the hot water heating system. When the operating mode selector witch is turned on "electric heater" and the electric heater is turned on, the fan runs continuously at medium speed.

The fan speed can be set at one of the 3 speeds (low, medium or maximun) by turning the operation mode selector.

The fan speed is switched automatically based on the difference between the temperature set on the thermostat and the room temperature.

Optimised comfort cooling. When the fan coil has reached the desired setpoint, the fan will operate at medium speed and at regular intervals to ensure constant room temperature and lower sound.

The controller prevents the fan coil unit from operating in one mode, if the required water temperature is not achieved to operate in the selected mode.



The dead zone is a temperature interval close to the set temperature. When the air is warmer/cooler than the top/lower limit of the neutral zone, the cooling/ heating mode is selected.

Easy to control !

The new fan coil units can be operated by 3 different controllers:
- electromechanical control built-in (ECFWMB6)
- electronic control built-in (ECFWEB6)
- electronic control remote (ECFWER6 / ECFWDER6)

The control panel consists of:
- **Operating mode selector**, to turn the fan coil on and off, to choose the type of operating mode (automatic or at fixed speed) and to control the electric heating.
- **Cooling / Heating selector**
- **Operational leds** that indicates the current operation mode
- **Thermostat** to control the room temperature

The electromechanical controller includes a fan speed selector (3 speeds + stop) and manual cool/heat changeover. In case of the on/off valves, control can also be done through this controller.

The electronic controller (built-in or remote) will give you more elaborate control functions. Several configurations are possible by changing dip switches. (see table below)

ECFWER6
ECFWDER6
ECFWEB6

ECFWMB6

These controllers give you an all in one comfort solution !

Controllers are easy to understand and operate !

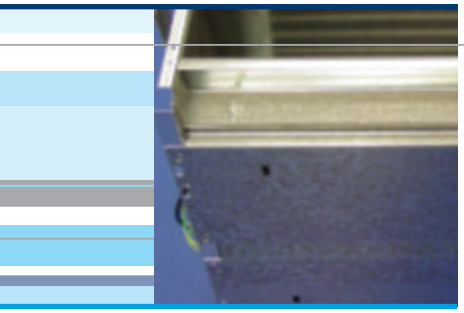
	Cooling/heating changeover			Options		Basic control functions		Control features		
				ON-OFF		3	AUTO	2' 10'		ΔT
2-pipe	●					●	●	●	●	
	●			●		●	●		●	
	●				●	●	●	●	●	
	●			●	●	●	●		●	
		●				●	●	●		
		●		●		●	●			
			●		●	●	●	●	●	●
			●	●	●	●	●		●	●
				ON-OFF		3	AUTO	2' 10'		ΔT
4-pipe	●			●		●	●		●	
	●					●	●	●	●	
			●			●	●	●		●
			●	●		●	●			●

The electronic control is also equipped with:
- Free contacts for external enabling signal that may switch on or off the unit.
- Free contacts for centralized cool/heat changeover
- Water temperature probe
- Air temperature probe

For remote control of up to 4 fan coil units, an optional power interface (EPIMSA6) is required.

Easy to install

Fast and easy field set up, ready for use!



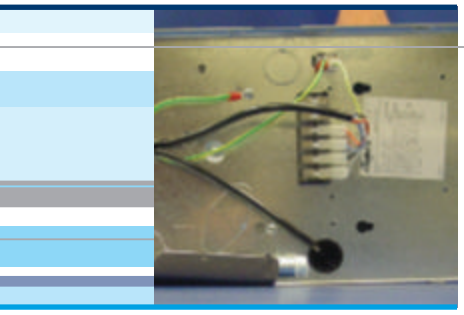
KEY HOLE SYSTEM / LEVELLING

- Quick fixing system for wall/ceiling mounting
  →→→ **Advantage** : No need to unscrew the nut
- Units just need to be perfectly leveled
  →→→ **Advantage** : No need to calculate the condensate drainage

WATER CONNECTION

- Pre-assembled 3-way/4-port ON/OFF valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages can be factory-mounted and are leak tested
- Same valve package can be installed vertically and horizontally, on the right or on the left side of the unit without change

  →→→ **Advantage** : Easy to connect even when space is limited

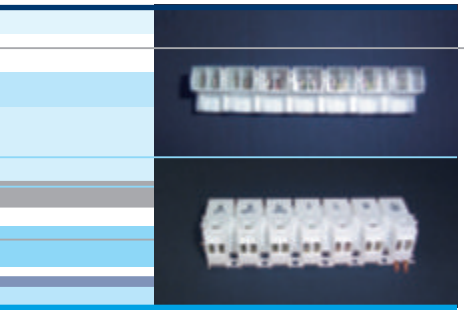


CONDENSATE DRAINAGE

- Condensate drain pan features slopes to reduce water accumulation
- Supplied with flexible rubber hose pipe for easy connection

  →→→ **Advantage** : Eliminates the need to align drain pan outlet with customer piping

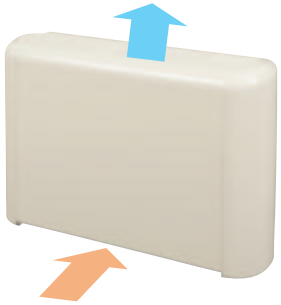
  →→→ **Advantage** : No need for collar if pipe diameter is compatible

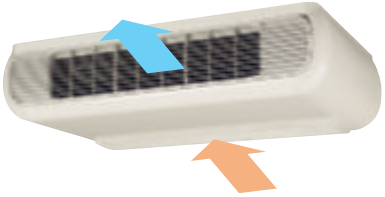


QUICK ELECTRICAL CONNECTIONS

- Fast-on connections for electrical options : no tools needed
- Controls are already factory-wired and tested

  →→→ **Advantage** : Control panel no longer needs to be opened (external customer connections)
- Wiring diagram on the cover of the electrical box





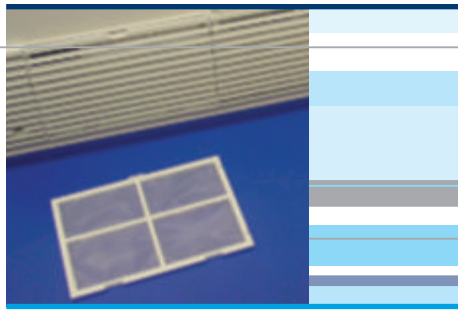
Easy to maintain

Low maintenance and high effeciency

QUICK REMOVAL OF WASHABLE FILTER

- No tools needed
- Same system on vertical and horizontal units

→→→ **Advantage** : very fast filter removal



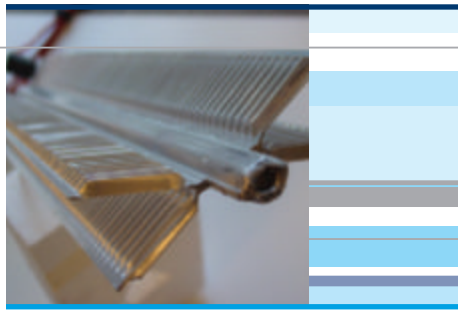
ELECTRIC HEATER RESETTING

- No relay up to 2kW capacity

→→→ **Advantage** : even quieter operation

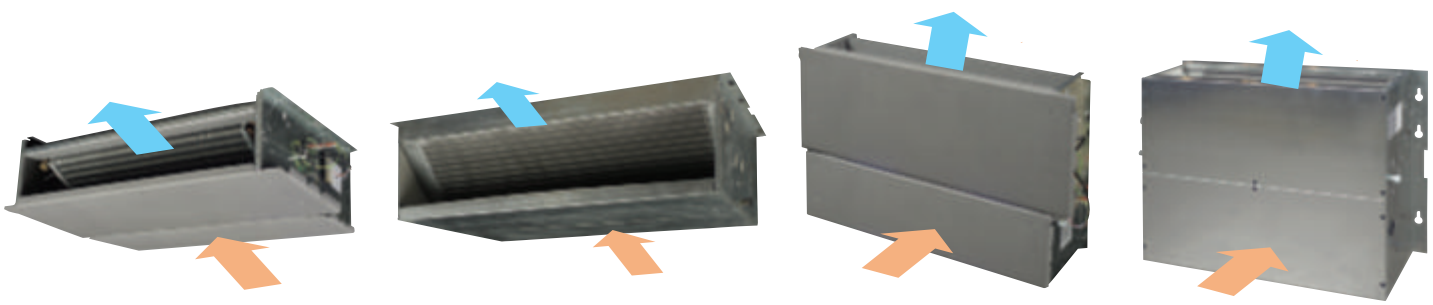
- Manual reset easily accessible
- Equipped with two overheat cut-out thermostats (manual & automatic reset)

→→→ **Advantage** : anticipates the upcoming standards



FAN MOTOR/CONTROL PANEL ACCESSIBILITY

- 4 screws to access to the fan motor
- Fan board is removable without bringing the unit down
- Motor is life-lubricated and has a life span of 40,000 hours
- Control panel removable by a single screw
- Can be unfolded for a better component access
- Removable grilles
- Easy access to control valves



Specifications

	FWV/FWL/FWM01-10C**			01	02	03	04	06	08	10
2-pipe (**=TN or TV)	**COOLING**	Total capacity (H)	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.71
		Sensible capacity (H)	kW	1.20	1.51	2.11	3.15	3.65	4.91	6.38
		Water flow	l/h	265	359	504	745	820	1,154	1,498
		Pressure drop	kPa	13	13	11	12	14	12	19
	HEATING	Heating capacity (H)	kW	2.14	2.79	3.81	5.63	6.36	7.83	11.1
		Water flow	l/h	265	359	504	745	820	1,154	1,498
		Pressure drop	kPa	9	10	9	9	10	9	13
	Power input	H	W	36	46	62	87	89	182	244
	Coil water volume		l	0.5	0.7	1	1.4	1.4	2.1	2.1
	Air flow	H/M/L	m^3/h	319/233/178	344/271/211	442/341/241	706/497/361	785/605/470	1,011/771/570	1,393/1,022/642
	Sound power level	H/M/L	dBA	47/39/34	52/44/36	50/44/38	55/48/40	59/52/44	59/52/44	66/58/48
	Weight	FWV	kg	19	20	25	30	31	41	41
		FWM	kg	14	15	19	23	23	32	32
		FWL	kg	20	21	27	32	33	44	44
4-pipe (**=FN)	**COOLING**	Total capacity (H)	kW	1.5	1.79	2.87	4.26	4.67	6.64	8.55
		Sensible capacity (H)	kW	1.17	1.46	2.07	3.09	3.57	4.85	6.26
		Water flow	l/h	258	308	494	733	803	1,142	1,471
		Pressure drop	kPa	13	13	11	12	14	12	19
		Cooling coil water volume	l	0.5	0.7	1	1.4	1.4	2.1	2.1
	HEATING	Heating capacity (H)	kW	2.23	2.07	2.91	4.51	4.67	7.91	9.30
		Water flow	l/h	196	182	286	396	465	694	816
		Pressure drop	kPa	7	8	5	10	10	8	9
		Heating coil water volume	l	0.2	0.2	0.3	0.4	0.4	0.6	0.6
	Power input	H	W	36	59	62	87	89	182	244
	Air flow	H/M/L	m^3/h	307/225/174	327/261/205	431/332/238	690/490/356	763/593/460	998/765/565	1,362/1,007/636
	Sound power level	H/M/L	dBA	47/39/34	54/48/42	50/45/38	55/48/40	59/53/46	59/52/44	66/58/48
	Weight	FWV	kg	20	21	26	32	33	44	44
		FWM	kg	15	16	20	25	25	34	34
		FWL	kg	21	22	28	34	35	46	46
2- pipe / 4-pipe	Water connections		inch	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
	Max. absorbed current		W	0.16	0.21	0.27	0.39	0.38	0.80	1.12
	Dimensions	FWV/FWL	mm	564x774x226		564x984x226	564x1,194x226		564x1,404x251	
		FWM	mm	535x584x224		535x794x224	535x1,004x224		535x1,214x249	
	Power supply		V/~/Hz	230/1/50						

**= TN (2-pipe, without valves), TV (2-pipe, with valves), FN (4-pipe, without valves)

	FWD04-18A*			04	06	08	10	12	16	18
2-pipe (*=T)	**COOLING**	Total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.4	18.3
		Sensible capacity	kW	3.08	4.65	6.52	7.36	9.36	12.8	14.1
		Water flow (H)	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		Pressure drop (H)	kPa	17	24	24	16	26	34	45
	HEATING	Heating capacity	kW	4.05	7.71	9.43	10.79	14.45	19.81	21.92
		Water flow (H)	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		Pressure drop (H)	kPa	14	20	20	13	21	28	37
	Available static pressure		Pa	66	58	68	64	97	145	134
	Weight		kg	33	41	47	49	65	77	80
4-pipe (*=F)	**COOLING**	Total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.4	18.3
		Sensible capacity	kW	3.08	4.65	6.52	7.16	9.36	12.8	14.1
		Water flow (H)	l/h	674	1,064	1,339	1,514	2,056	2,833	3,140
		Pressure drop (H)	kPa	17	24	24	16	26	34	45
	HEATING	Heating capacity	kW	4.49	6.62	9.21	9.21	15.86	21.15	21.15
		Water flow (H)	l/h	349	581	808	808	1,392	1,856	1,856
		Pressure drop (H)	kPa	9	15	13	13	12	16	16
	Available static pressure		Pa	63	53	63	59	92	138	128
	Weight		kg	35	43	50	52	71	83	86
2- pipe / 4-pipe	Air flow rate		m^3/h	800	1,250	1,600	1,600	2,200	3,000	3,000
	Power input		W	177	274	315	325	530	991	1,001
	Water connections		inch	3/4	3/4	3/4	3/4	1	1	1
	Max. absorbed current		W	0.95	1.58	1.97	1.97	3.21	5.37	5.37
	Dimensions		mm	280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718	
	Sound power level	Overall	dBA	66	69	72	72	74	78	78
	Power supply		V/~/Hz	230/1/50						

Measuring conditions (at nominal air flow and ESP) **COOLING** • Air temperature entering the unit: 27°C/19°C • Water temperature entering the unit 7°C • Water temperature rise 5 K
HEATING • Room air temperature 20°C • For 2 pipe units : Water inlet temperature 50°C - Water flow rate same as for the cooling test • For 4 pipe units : - Water inlet temperature 70°C - Water temperature decrease 10 K

Option kits

FWV/FWL/FWM

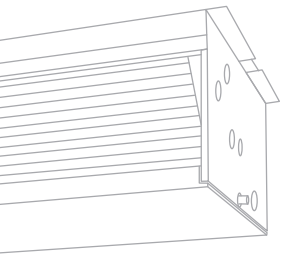
	Description	01	02	03	04	06	08	10	FWV	FWL	FWM
	Additional single row heat exchanger*	ESRH02A6		ESRH03A6	ESRH06A6		ESRH10A6		x	x	x
	Electric heater**	EEH01A6	EEH02A6	EEH03A6	EEH06A6		EEH10A6		x	x	x
	2-pipe ON-OFF 3-way motor driven valve with complete mounting kit*	E2MV03A6			E2MV06A6		E2MV10A6		x	x	x
	4-pipe ON-OFF 3-way motor driven valve with complete mounting kit* (**)	E4MV03A6			E4MV06A6		E4MV10A6		x	x	x
	Fan stop thermostat** (only for ECFWMB6)	YFSTA6							x	x	x
	Air intake & discharge grille + front filter fixing kit for concealed models	EAIDF02A6		EAIDF03A6	EAIDF06A6		EAIDF10A6		-	-	x
	Supporting feet (= supporting brackets + covers)	ESFV06A6					ESFV10A6		x	-	x
	Supporting feet + grille	ESFVG02A6		ESFVG03A6	ESFVG06A6		ESFVG10A6		x	-	-
	Manual fresh air intake louver	EFA02A6		EFA03A6	EFA06A6		EFA10A6		x	-	x
	Rear panel for vertically installed units	ERPV02A6		ERPV03A6	ERPV06A6		ERPV10A6		x	x	-
	Controller - electromechanical built-in**	ECFWMB6							x	x	x
	Controller - electronic built-in + water probe**	ECFWEB6							x	x	x
	Controller - electronic remote + water probe	ECFWER6							x	x	x
	Power interface for connection of up to 4 FCU to a single control panel	EPIMSA6							x	x	x
	Vertical drain pan	EDPVA6							x	x	x
	Horizontal drain pan	EDPHA6							-	x	x

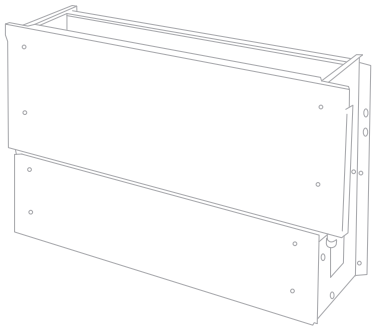
* Can be ordered factory mounted
** factory mounted on request

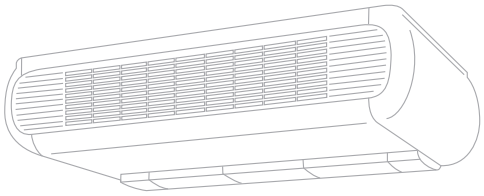
FWD

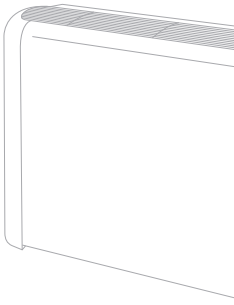
	Description	04	06	08	10	12	16	18
	2-pipe ON-OFF 3-way motor driven valve with complete mounting kit (incl. drain pan horizontal installation)[1]	ED2MV04A6	ED2MV10A6			ED2MV12A6	ED2MV18A6	
	4-pipe ON-OFF 3-way motor driven valve with complete mounting kit (incl. drain pan horizontal installation)[1]	ED4MV04A6	ED4MV10A6			2xED2MV12A6	2xED2MV18A6	
	Electric heater (including power contactor) (smallest capacity: 3~9kW)[2]	EDEH04A6	EDEHS06A6	EDEHS10A6		EDEHS12A6	EDEHS18A6	
	Electric heater (including power contactor) (biggest capacity: 6~12kW)[2]	EDEH04A6	EDEHB06A6	EDEHB10A6		EDEHB12A6	EDEHB18A6	
	Auxiliary drain pan (vertical mounted units)	EDDPV10A6				EDDPV18A6		
	Motorised fresh air intake louver	EDMFA04A6	EDMFA06A6	EDMFA10A6		EDMFA12A6	EDMFA18A6	
	Fan stop thermostat	YFSTA6						
	Controller - electronic remote + water probe + power contactor	ECFWDER6						

Notes:
1. The valves for FWD12-16-18 do not contain piping • 2. Requires electronic control









In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.
For several years Daikin has had the intention to become a leader in the provision of environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard.
ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Specifications are subject to change without prior notice

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.
FWD units are not withing the scope of the Eurovent Certification Programme.

Daikin products are distributed by:

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