

CWX 6 - CWX 8 - CWX 10

CASSETTE TYPE TERMINAL UNIT



			Cooling	Heating
CWX 6	2 pipes		6.00 kW	7.70 kW
CWX 8	2 pipes		8.00 kW	10.50 kW
CWX 10	2 pipes		9.92 kW	13.00 kW

MARKING

This product marked  conforms to the essential requirements of the Directives:

- Low voltage no. 2006/95/EC.
- Electromagnetic Compatibility no. 89/336 EEC, modified 92/31 and 93/68 EEC.



SUMMARY

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1 - PRESENTATION

1.1 - USE

- Unit intended for climate control in buildings and the comfort of people.
- Do not place the device in rooms with high humidity or exposed to projections of water.

1.2 - FUNCTIONS

- Cooling or heating by means of a 2-pipe water coil.
- Ventilation with filtration (built-in filter).

1.3 - APPLICATIONS

- This unit was designed for installation in locations such as offices, businesses and hotels.

1.4 - MODELS

- "2-pipe" for all sizes, with wire or infrared remote control: CWX B 5B and CWX B 5X.

2 - TECHNICAL CHARACTERISTICS

2.1 - NOMINAL CONDITIONS

Model				CWX 6 B	CWX 8 B	CWX 10 B
Total cooling capacity	(1)	HS	kW	6.00	8.00	9.92
		MS	kW	5.00	6.50	8.09
		LS	kW	4.20	5.50	6.23
Sensible cooling capacity	(1)	HS	kW	4.70	6.40	7.90
		MS	kW	3.80	5.40	6.22
		LS	kW	3.20	4.10	4.62
Heating capacity	(2)	HS	kW	7.70	9.42	11.69
		MS	kW	6.40	8.52	9.53
		LS	kW	5.40	6.28	7.34
Air flow rate	HS		m ³ /h	1,300	1,270	2,300
			m ³ /s	0.361	0.353	0.631
		MS	m ³ /h	1,060	1,090	1,700
	MS		m ³ /s	0.294	0.303	0.472
			m ³ /h	850	830	1,200
		LS	m ³ /s	0.233	0.231	0.339
Water flow rate in cooling	(1)	HS	l/h	1,030	1,380	1,700
		MS	l/h	860	1,120	1,400
		LS	l/h	720	950	1,070
Pressure drop on water in cooling mode	(1)	HS	kPa	30	41	63
		MS	kPa	19	31	42
		LS	kPa	14	23	26
Pressure drop on water in heating mode	(2)	HS	kPa	27	39	60
Pressure drop of the valve		HS	kPa	17	25	45
Power supply		V/ph/Hz		230/1/50	230/1/50	230/1/50
Max. power consumption		HS	kW	0.12	0.12	0.18
Max. current consumption		HS	A	0.50	0.50	0.80
Hydraulic connection		3/4" gas female		●	●	●
Sound power level		HS	dB(A)	51	50	57
		MS	dB(A)	44	46	49
		LS	dB(A)	40	37	43
Sound pressure level (at 2 m indoors)		HS	dB(A)	42	41	48
		MS	dB(A)	35	37	40
		LS	dB(A)	31	28	34

(1) Air inlet: 27°C (DB) / 19°C (WB) - Water inlet: 7°C - Water outlet: 12°C.
(2) Air inlet: 20°C - Water inlet 50°C (same flow-rate as under other conditions (1)).

2.2 - OTHER CONDITIONS

- Consult us.
- **Operating limits:**
 - Minimum water inlet temperature : 4°C.
 - Maximum water inlet temperature: 60°C.

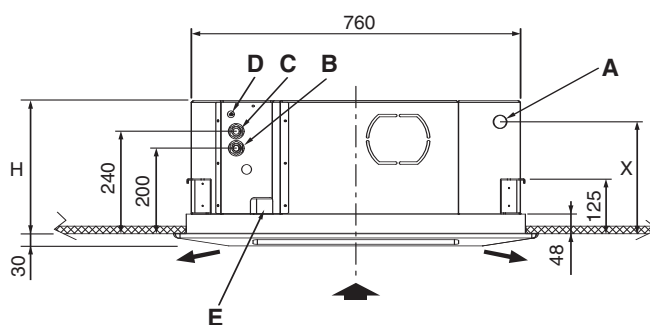
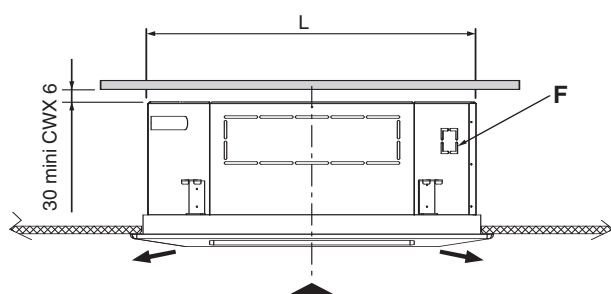
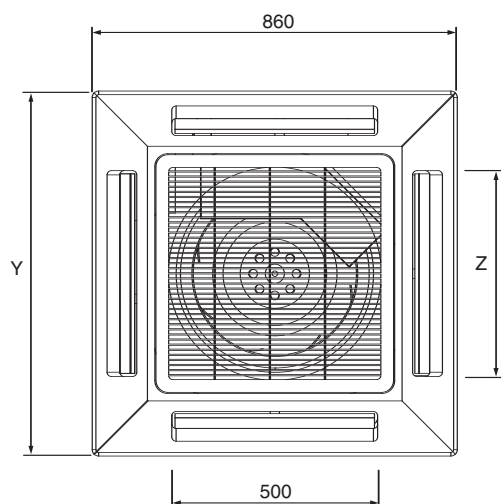
Note : For reasons relating to comfort (homogeneity of the air temperature in the room), not exceeding a water inlet temperature of 55°C in the battery is recommended.

- Maximum operating pressure of the hydraulic circuit: 16 bar.
- Minimum air recirculation temperature : 5°C.
- Maximum air recirculation temperature: 32°C.

3 - PHYSICAL CHARACTERISTICS

Model	L	H	X	Y	Z
CWX 6	760	310	260	860	500
CWX 8/10	1,050	340	290	1,150	750

- A** Condensate opening : OD 32mm
B Water inlet : 3/4" female - gas
C Water outlet : 3/4" female - gas
D Air vent valver
E Electrical cable passage
F New air intake: 60 mm x 55 mm



NET WEIGHT

Model	CWX 6	CWX 8/10
Unit	23 kg	29 kg
Facade / grille assembly	5 kg	7 kg

PACKED UNITS

Model			CWX 6	CWX 8/10
Unit	length	mm	860	1,150
	width	mm	820	820
	height	mm	300	330
	weight	kg	26	33
Front panel	length	mm	960	1,250
	width	mm	960	960
	height	mm	105	105
	weight	kg	8	10

4 - DESCRIPTION

Model		CWX 6	CWX 8	CWX 10
Construction				
Material		Galvanised steel	Galvanised steel	Galvanised steel
Polyethylene insulation		3 mm exterior	3 mm exterior	3 mm exterior
Front panel material		Polystyrene	Polystyrene	Polystyrene
Front panel colour		RAL 9001	RAL 9001	RAL 9001
Electric box protection		IP 20	IP 20	IP 20
Copper/aluminium thermal exchanger				
Number of rows		2	2	2
Frontal surface area	m ²	0.349	0.556	0.556
Pitch between fins	mm	1.5	1.5	1.5
Water capacity	litres	1	1.5	1.5
Connections		3/4" gas female	3/4" gas female	3/4" gas female
Manual air bleeder		•	•	•
Motor				
Power supply	230V/1/50Hz	•	•	•
Number		1	1	1
Internal thermal protection		•	•	•
Class		A	A	A
Number of poles		6	6	6
Rotation speed (at high speed)	rpm	440	470	510
Max. power consumption	kW	0.115	0.140	0.180
Max. current consumption	A	0.5	0.6	0.8
Fan				
Type		Centrifugal	Centrifugal	Centrifugal
Number		1	1	1
Diameter	mm	450	450	450
Length	mm	160	200	200
Air filter				
Polypropylene, class HB (UL 94) – Washable		•	•	•
Number		1	1	1
Condensate pump				
Power supply	230V/1/50Hz	•	•	•
Nominal flow rate	litres/hour	36	36	36
Lift height above the unit	mm	250	250	250
Power consumption	kW	0.015	0.015	0.015
Fresh air intake (knock-out)				
Number		1	1	1
Connection dimensions	mm	60 x 55	60 x 55	60 x 55
Wire remote control version		•	•	•
Infrared remote control version		•	•	•

5 - ACCESSORIES

5.1 - 3-WAY VALVE + BY-PASS

- **Code 70600088.**
- This valve kit can be mounted on all models **and is obligatory for cold water use.**
- If this valve is not installed there is a risk of the condensate tray overflowing when the machine is switched off by the thermostat or if the condensate pump breaks down.
- A standard auxiliary condensate tray (for the valve) is delivered with the units.
- Characteristics:
 - Connection: 3/4" male gas (the valve is supplied with the connections for installation directly on the unit's outlet).
 - Kvs: 2.5.
 - "On/Off" 230V thermal actuator.
 - Open time: 3 min.

5.2 - REMOTE CONTROLS (for the wire remote control version)

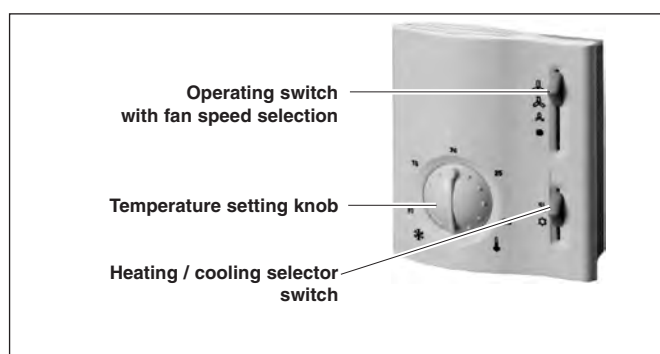
Model	CWX 6 B	CWX 8 B	CWX 10 B
70250076 RAB 30 Manual remote control	•	•	•
70250051 RCC 10 automatic remote control	•	•	•
70250053 Change/over sensor or air recirculation with bracket for RCC	•	•	•
70250054 Air temperature sensor in box for RCC	•	•	•

Note: "On-Off" action on valve, 230 VAC (accessory).

A - MANUAL REMOTE CONTROL

- **Code 70250076**
- The operating mode is selected **manually** by a switch on the front of the control unit.

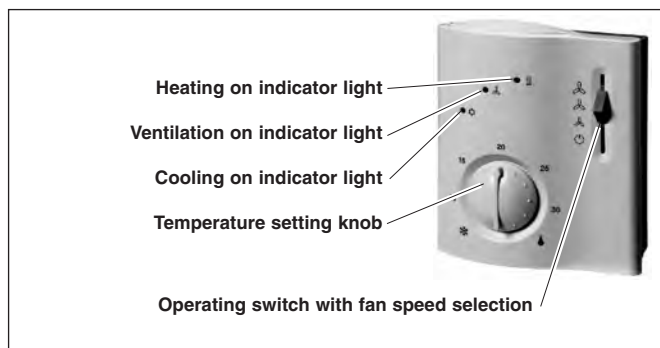
- Technology : electromechanic
- Power supply : 230 Vac
- Set-point adjustment range : 8 / 30°C
(possibility of mechanical limitation by jumpers on the knob)
- "On-Off" action
- Control differential : $\leq 1^{\circ}\text{C}$
- Operating temperature : 0 / 50°C
- Relative humidity : < 95%
- Protection class : cl. II
- IP : 30
- Colour : White RAL 9003



B - AUTOMATIC REMOTE CONTROL

- **Type RCC 10 - code 70250051**
- Selection of the operating mode is done **automatically**.
- For the units capable of heating and cooling operation, a change-over sensor must be connected (accessory, code 70250053) to the installation on the water piping.
This change-over sensor can be replaced by a potential-free contact (not supplied), the closing of which causes changeover to cooling mode.
- There is a possibility to connect a remote air temperature sensor, bare (accessory, code 70250053) or box mounted (accessory, code 70250054).
- Permanent or slaved ventilation.
- Mode change is possible (Eco or Stand-by) by an external potential-free contact (not supplied).

- Technology : electronic
- Power supply : 230 Vac
- Set-point adjustment range: 8 / 30°C
(possibility of mechanical limitation by jumpers on the knob)
- "On-Off" action
- Heating differential : adjustable 1 or 4°C
- Cooling differential : adjustable 0.5 or 2°C
- Neutral zone (on RCC 20) : adjustable 2 or 5°C
- Setpoint in "Eco" mode : 16°C in heating mode
28°C in cooling mode
- Setpoint in "Standby" : 8°C in heating mode
- Operating temperature : 0 / 50°C
- Relative humidity : < 95%
- Protection class : cl. II
- IP : 30
- Colour : White RAL 9003

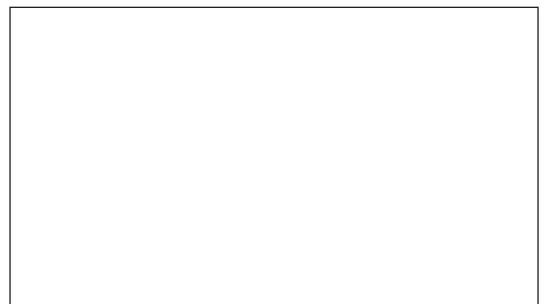


C - TEMPERATURE PROBE (BARE) - CODE 70250053

- For RCC type remote control.
- 2 possible uses:
 - change over probe (equipped with a tube retaining clip) for appliances may operate in heating and cooling mode,
 - air temperature probe (to be placed on the air intake).
- Thermistance type CTN 3 k Ω at 25°C.
- IP 65 - protection class: cl. II.

D - BOX-MOUNTED AIR TEMPERATURE PROBE - CODE 70250054

- For RCC remote controls.
- Enables the control unit to be placed outside the room to be air conditioned.
- Thermistance type CTN 3 k Ω at 25°C.
- The unit is mounted in a box similar to the remote control (IP 30 - protection class: cl. II - colour: white RAL 9003).



Due to our policy of continuous development, our products are liable to modification without notice.

Technibel

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