



COMBIBOX CONCEPT®

RANGE

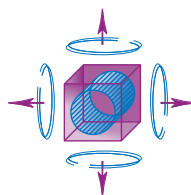
COMBIBOX CONCEPT®

Air treatment modules

Ventilation modules

Flow rates from 200 to 17000 m³/h

01



01A CBI

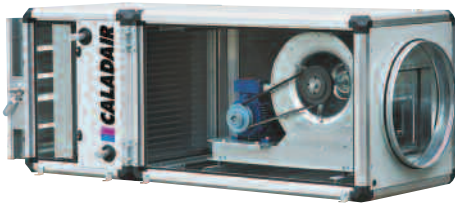


01B CBZ EC



01c CBP





Air treatment modules with CBP

APPLICATION

The **COMBIBOX CONCEPT®** programme is made up of a genuine range of air treatment units meeting the requirements of office and industrial premises.

Manufactured in compliance with European standards (**EN 1886** and **EN 13053**), this programme perfectly matches dimensional criteria with air handling and acoustic performances. Available in 6 sizes, the **COMBIBOX CONCEPT®** programme covers flow rates from 200 to 17000 m³/h.

Offered with 4 motor drive systems, the **COMBIBOX CONCEPT®** range provides ventilation for office premises at low and average flow rates from 200 to 6000 m³/h with the **CBI**, modules, direct-coupled motorised fans (see detail on page 56), **CBI MAC2** motorised fans with constant flow rates (see page 70) and **CBZ EC**, motorised fan with **low consumption** free impeller (see detail page 84), and high flow rates up to 17000 m³/h with the **CBP**, ventilation modules, motorised fan unit with pulley/belt transmission (see detail on page 94).



Air treatment modules with CBI

CONSTRUCTION

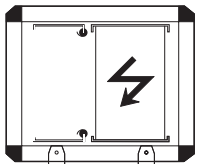
The type **CBI**, **CBZ EC** or **CBP** ventilation modules and the additional **CBX** modules have the same section at equivalent size.

- Structure in aluminium section with reinforced polyamide corners.
- Double skin panels, high density 25 mm A2-s1, d0 (M0) mineral wool - Exterior: Ral 7035 prelacquered - Interior: galvanised.
- All components (filters, coils) are mounted on runners.
- Access to the filters is via an opening panel fitted with safety latches.
- The filtration plenum module is in non-insulated RAL 7035 prelacquered metal sheet.

MODULES ADDITIONNELS

CBX

ELECTRIC HEATING MODULE



CBX-BE

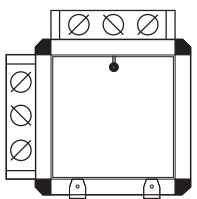
- Stainless steel screened electrical resistances and stainless steel fins.
- Prewired in one or more stages Other configurations on request. Can be connected on site: on the right or left (on the right as standard).
- ▲ Filtration: this module can optionally accommodate a G4 or F7 filter on a runner fitted with lip seals.

▲ **IMPORTANT: SAFETY DEVICES**, the coil is fitted with:

- A safety thermostat with manual reset, 95°C.
- A safety thermostat with automatic reset adjustable from 0 to 90°C.

Note: observe an air speed greater than 1.2 m/sec.

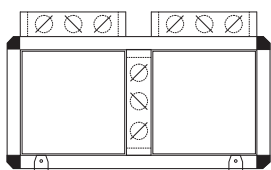
TWO-OR THREE-CHANNEL MIXING MODULE



CBX-2V

- Module can be motorised with linkage installed.
- Damper with opposing movement blades CBX4 2V to CBX7 2V: dampers can be positioned on all faces, can be driven by a single servomotor.

Note: CBX8 2V and CBX9 2V: as standard, dampers at the back and on the top, can be driven by a single servomotor. On request, dampers on side faces which can be driven by two servomotors.

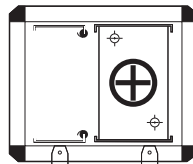


CBX-3V

- Supplied with 3-channel linkage and dampers on the top as standard (other configurations and outside installations of sizes 8 and 9 on request).
- When used outdoors, the dampers are located on the side faces. In this case allow for 2 or 3 servomotors and roof covering option of the corresponding size..

- **Registre sur dessus impossible en extérieur. Prévoir latéral. Attention : pas de tringlerie.**

WATER HEATING MODULE



CBX-BC

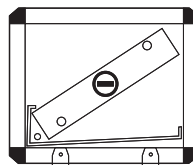
- Coil tubes in copper with aluminium fins.
- Hydraulic branch connections in male gas pitch threaded steel tube.
- Bleed and drain screws accessible without removing the panel.

Can be connected on site: on the right or left (on the right as standard).

Filtration: this module can receive an optional G4 or F7 filter.

▲ The filter runner is fitted with lip seals.

WATER COOLING AND DIRECT EXPANSION MODULE



CBX-BF

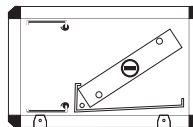
- Coil tubes in copper with aluminium fins.
- Hydraulic branch connections in male gas-pitch threaded steel tubes for CBX-BF with bleed and drain screw accessible without removing the panel.

• Refrigeration connections in soldered copper tube for CBX-DX and pressure reducer not supplied.

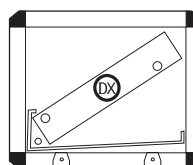
• Built-in drip eliminator (pressure drop due to drip eliminator taken into account in the curves).

• Condensate tray with drainage via male gas-pitch threaded steel tube Connection: on the right (left on request).

▲ **Positioning:** horizontal or vertical with air direction from bottom to top. The characteristics displayed are those obtained using R407C. CBX-DX modules can also be used with R410A. In this case allow for a power increase of 3%. For applications using other fluids, please contact us.



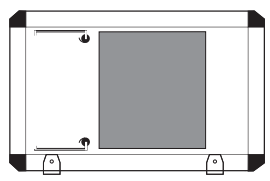
CBX-FC



CBX-DX



ACOUSTIC MODULE



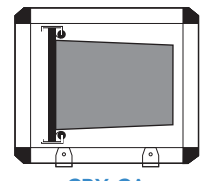
CBX-BA

- Fitted as standard with a runner fitted with lip joints, this module can accommodate optionally a G4 or F7 filter when positioned on the intake.
- On discharge, it can be directly coupled to the other modules in the **COMBI-BOX CONCEPT®** programme using this filter location which when not used provides the pressure drop necessary to guarantee the advertised acoustic attenuations.

FILTER SECTION

- Filter fitted with lip joints to accommodate a filter, thickness 100 mm G4 (93% gravimetric) or F7 (85% opacimetric).
- ▲ High efficiency F7 filter.
- Large filtration surface (10 times more than a gravimetric filter).
- Service life up to 2.5 times greater than a gravimetric filter.
- Being very compact, they can replace a G4 filter without modification.

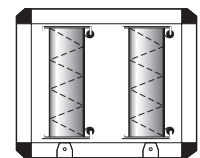
ACTIVATED CARBON MODULE



CBX-CA

- Characteristics of the ACTIVATED CARBON filter: 100% polyester fibres bonded with a resin and impregnated with activated carbon.
- Unlike the usual filtration media, activated carbon is not introduced during the manufacture of the layer but during the manufacturing process of the fibre thus ensuring better adhesion of the carbon in the layer and greater efficiency as the carbon particles are not covered in adhesive.

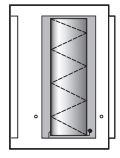
FILTRATION MODULE



CBX-GO

- Fitted with two runners fitted with lip seals.
- This module is fitted with a G4 gravimetric pre-filter and an F7 opacimetric filter.

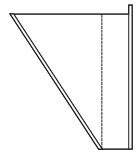
FILTRATION PLENUM



PF --

- PF module fitted with a pleated G4 or F7 filter.
- ▲ The filter runner is fitted with lip seals.

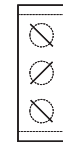
COWL MESH



AGC -

- Can be adapted to the intake or discharge side of a module
- Manufactured in galvanized steel sheet. Delivered as a kit and installed on site.

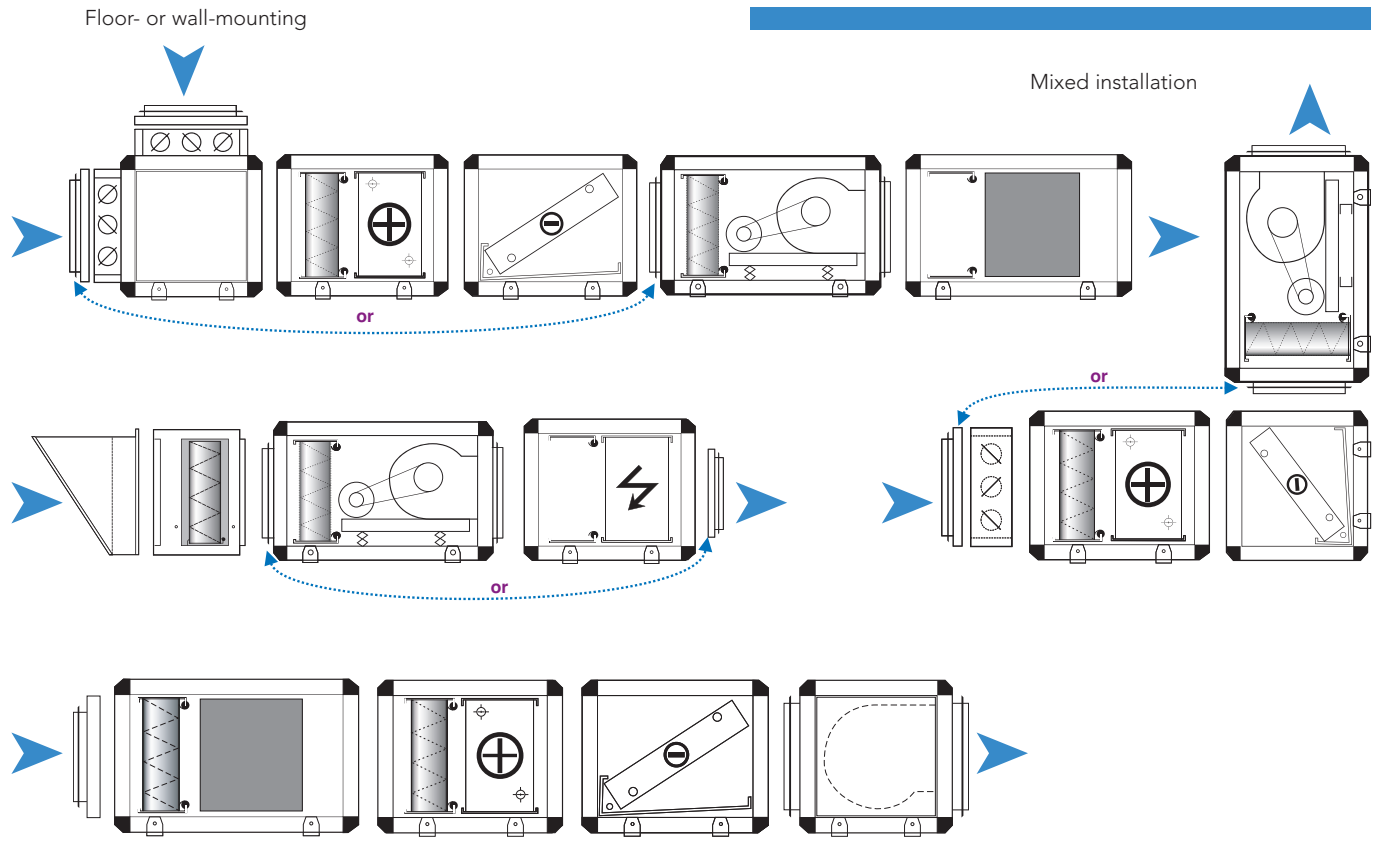
MOTORISABLE DAMPER

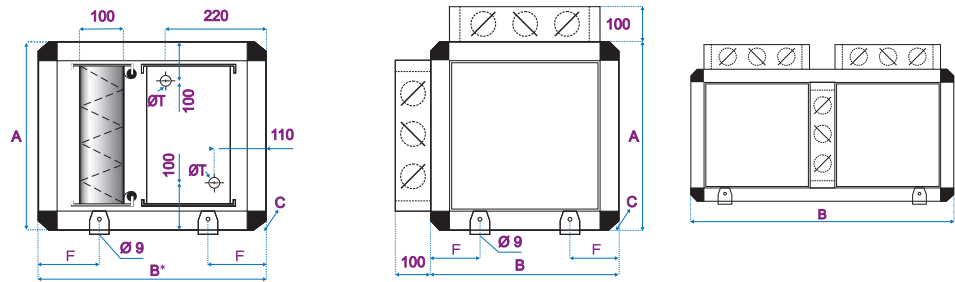


RM -

- Damper with opposing blades
- ▲ Fitted with a handle for manual adjustment

MODULE CONFIGURATIONS **COMBIBOX CONCEPT®**





COMBIBOX® Module size
4
5
6
7
8
9

SIZES CBX		
A	C	F
mm	mm	mm
445	445	80
545	545	80
645	645	80
745	745	80
845	970	100
945	1170	100

CBX-BC		
Ø T	Weight	
"	kg	
1/2	28	
1/2	36	
3/4	44	
3/4	54	
1	63	
1 1/4	77	

CBX-BA		
B	Weight	
mm	kg	
845	35	
945	50	
1045	70	
1190	95	
1370	135	
1445	165	

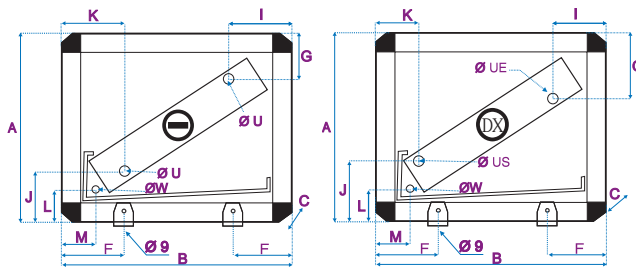
CBX-CA	
Weight	
kg	
27	
33	
46	
60	
85	
110	

CBX-GO	
Weight	
kg	
22	
28	
41	
54	
68	
82	

CBX-2V		
B	Weight	
mm	kg	
445	31	
545	41	
645	54	
745	66	
845	81	
945	109	

CBX-3V		
B	Weight	
mm	kg	
845	54	
1045	72	
1245	95	
1445	117	
1645	145	
1845	195	

B*: 545 mm for CBX-BC, CBX-BE, CBX-CA, CBX-GO.

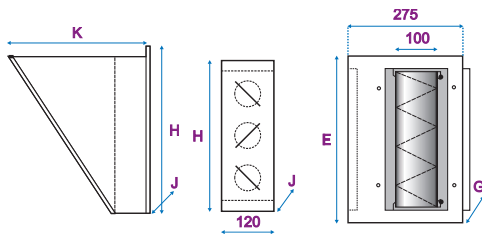


COMBIBOX® Module size
4
5
6
7
8
9

SIZE MODULES CBX-BF-DX							
A	B	C	F	L	M	ØW	Weight
mm	mm	mm	mm	mm	mm	"	kg
445	545	445	80	75	75	1/2	32
545	545	545	80	75	75	1/2	40
645	645	645	80	75	75	1/2	55
745	745	745	80	75	75	1/2	77
845	845	970	100	75	75	1/2	107
945	945	1170	100	75	75	1/2	140

CBX-BF*				
G	I	J	K	ØU
mm	mm	mm	mm	"
90	170	125	170	1/2
95	205	130	175	3/4
95	230	130	175	3/4
95	205	130	175	1
105	240	140	185	1 1/2
105	215	140	190	2

CBX-DX			
G	I	J	K
mm	mm	mm	mm
115	105	135	90
95	140	130	90
135	175	135	90
135	155	140	95
145	185	150	110
145	175	150	110



COMBIBOX® Module Size
4
5
6
7
8
9

AGC			
Weight	K	H	J
kg	mm	mm	mm
6	340	362	362
10	440	462	462
14	540	562	562
20	640	662	662
30	740	762	887
45	840	862	1087

RM		
Weight		
kg		
8		
10		
13		
15		
17		
23		

