

# CEILING BATHROOM FANS

**CBF**  
series



*Fresh air in  
your house!*



Vents CBF LP DC



Vents CBF LP Light DC



**VENTS**  
ventilation-systems.com





## VENTS CBF LP DC series



- DC motor with low energy demand.
- Constant air flow.
- Low noise level.
- Wide speed setting range.
- The modular design enables easy connection of a humidity or motion sensor.

## VENTS CBF LP DC Light series



- DC motor with low energy demand.
- Constant air flow.
- Low noise level.
- Integrated speed controller.
- The modular design enables easy connection of a humidity or motion sensor.
- Integrated LED-light with low energy demand.

### Application

- Continuous or periodic exhaust ventilation of bathrooms, showers, and other utility spaces.
- Designed for high-resistant ductworks.
- Ingress protection rating: IPX4.
- Compatible with Ø 100 mm air ducts.

### Motor

- The CBF LP DC fan features a high-efficient low-watt direct current motor with overheating protection. The constant air flow technology provides required air flow in a wide range of static pressure.
- Maintenance-free bearings contain enough grease for 40 000 hrs of continuous operation.

### Design

- The casing is made of galvanized steel.
- The modular design enables easy retrofitting with optional humidity and motion sensors (except for the basic model) or a grille with a light.
- The centrifugal impeller is equipped with forward curved blades for high operating pressure and low noise.
- The impeller of the motor is made of high-quality durable ABS plastic.
- The fan features a gravity backdraft damper to prevent backdraft.
- Easily removable plastic grille ensures easy installation and maintenance of the fan.

- The modular grille design enables easy connection of an optional humidity or motion sensor.
- The CBF LP Light fans are equipped with an energy-efficient LED lamp.

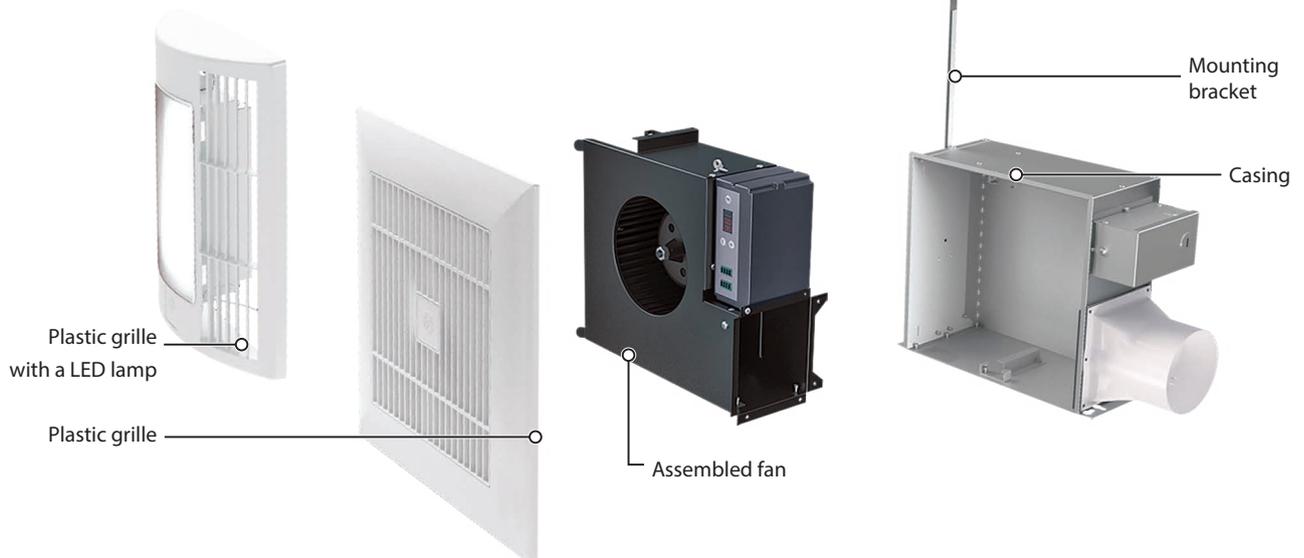


### LED lamp

Power: 10 W  
Colour temperature:  
3 000 K  
Luminous flux  
650 lumens



Incandescent lamp  
Power: 60 W



## CEILING FANS

### Options

- The CBF LP DC is equipped with an adjustable turn-on and turn-off delay timer. A humidity sensor or a motion sensor (available separately) can be optionally connected to this fan modification.



Humidity sensor



Motion sensor

### Control

The built-in control panel of the CBF LP DC fans enables setup of the following parameters:

- timer-based turn-on delay
- timer-based turn-off delay
- humidity level
- air flow in Modes 1 and 2

### MANUAL CONTROL

- The fan is controlled by means of the P2-10 speed switch (available separately).



### AUTOMATIC CONTROL



**Timer:** the fan constantly operates in Mode 1. When the light switch is closed, the fan switches to Mode 2 after the end of the turn-on delay time (from 0 to 3 minutes). Upon the light switch opening, the built-in turn-off delay timer keeps the fan running in Mode 2 from 1 to 90 minutes. On elapsing of this period the fan reverts to Mode 1.



**Timer and humidity sensor** (available separately): the fan constantly operates in Mode 1. If the indoor humidity level exceeds the sensor threshold value set in the 50-90 % range, the fan switches to Mode 2. When the humidity level reverts to the pre-set value, the built-in turn-off delay timer keeps the fan running in Mode 2 from 1 to 90 minutes. On elapsing of this period the fan reverts to Mode 1.



**Timer and motion sensor** (available separately): the fan constantly operates in Mode 1. If the motion sensor detects movement within its range, the fan goes to Mode 2. When the movement is no longer detected, the built-in turn-off delay timer keeps the fan running in Mode 2 from 1 to 90 minutes. On elapsing of this period the fan reverts to Mode 1.

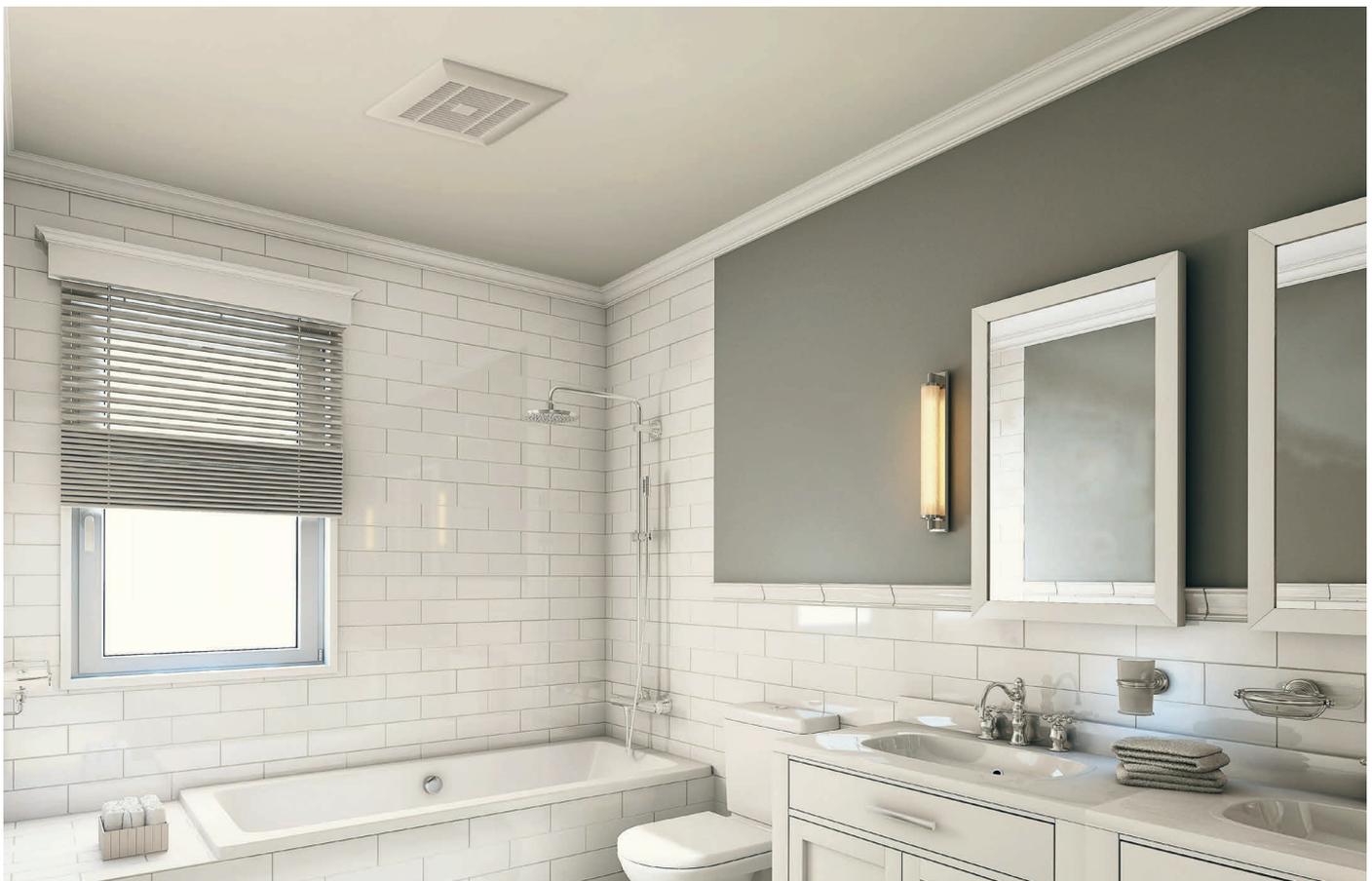
Name	Adjustment range for operation modes 1 and 2
CBF LP 110 DC	OFF/Speed 1/Speed 6



Control panel for CBF LP DC fans

### Mounting

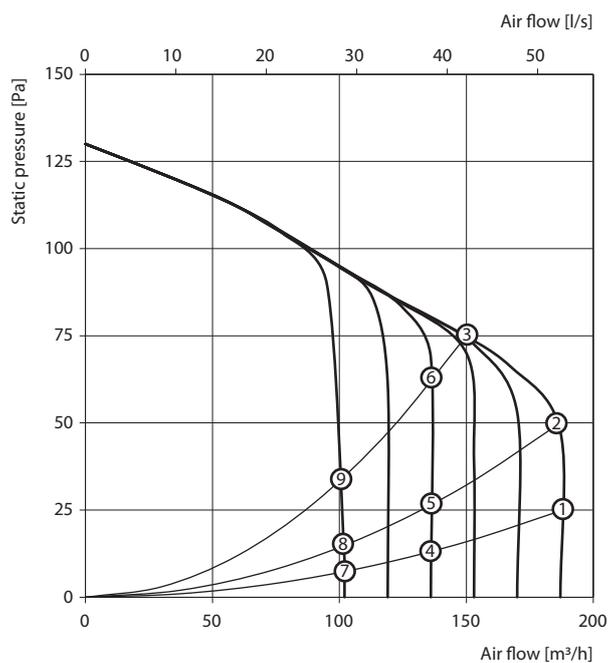
- The fan is designed for ceiling mounting.
- The fan is attached to the ceiling joists with spacer brackets and self-tapping screws.
- The flexible air duct is connected to the fan exhaust spigot through a clamp.
- The reduced casing height allows fans to be installed in ceilings with a thickness of minimum 140 mm.



**Technical data**

<b>Model</b>	<b>CBF LP 110 DC</b>
<b>Frequency [Hz]</b>	50/60
<b>Voltage [V]</b>	120-240
<b>Power [W], V</b>	19
<b>LED-light power [W*]</b>	2 x 10
<b>RPM [min<sup>-1</sup>]</b>	1100
<b>Current [A]</b>	0.18 (0.3)
<b>Maximum air flow [m<sup>3</sup>/h]</b>	187
<b>Maximum air flow [l/s]</b>	52
<b>SFP [W/l/s]</b>	0.37
<b>Sound pressure level at 3 m distance [dBA]</b>	23-25
<b>SEC class</b>	C

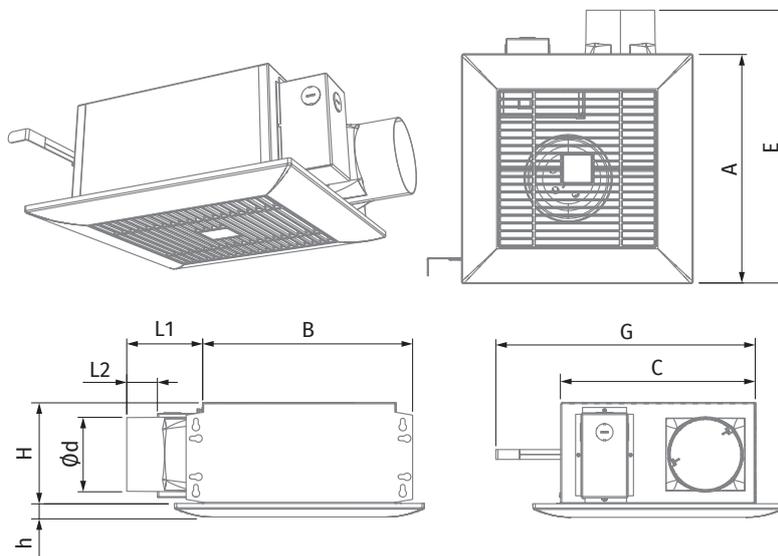
\*Only for the Light modification.



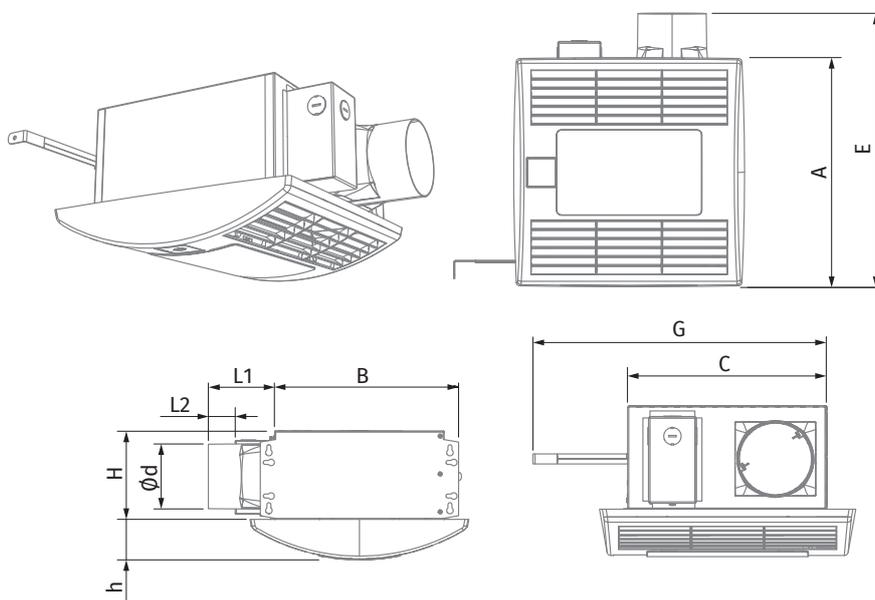
<b>CBF LP 110 DC</b>	
<b>CBF LP 110 DC Light</b>	
<b>Point</b>	<b>Power [W]</b>
1	17
2	19
3	16
4	9
5	12
6	15
7	4
8	4
9	6

Overall dimensions

CBF LP DC



CBF LP DC Light



Dimensions [mm]	Ø d	L1	L2	A	B	C	E	H	h	G
CBF LP 110 DC	98	100	40.5	330	278	255	395	134	18	max 620
CBF LP 110 DC Light	98	100	40.5	330	278	255	395	134	57	max 620

**Accessories**

Name	Accessory image	Description	CBF 110 DC
P2-10		Speed switch	•
TH CBF		Humidity sensor	•
TR CBF		Motion sensor	•
MVM 102 bVs N		Stainless steel ventilation hood Ø 100 mm	•
MV 102 V ASA		ASA-plastic ventilation hood Ø 100 mm	•
Polyvent 660 102/3		Flexible air duct Ø 100 mm, 3 m long	•
CB 100		Quick-detachable stainless steel clamp Ø 90-110 mm	•
CH-PLC-10WG23*		10 W LED-light with colour temperature 3000 K	•

\*Only for the Light modification.

[www.ventilation-system.com](http://www.ventilation-system.com)

The catalogue information is for reference only.

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