

## BF X Domestic Fans

### Powerful centrifugal bathroom fan

- Powerful centrifugal fan
- Flexible installation on wall or ceiling
- IPX4 degree of protection
- Low noise

[Find more details in our online catalogue.](#)



### Powerful residential fan

The BF X fan is a **compact** yet **powerful** centrifugal ducting fan designed to overcome the resistance of long ducting systems. BF X range ensures air extraction in **small/medium-sized rooms** such as **bathrooms, toilets** and **kitchens**.

### Robust design

The casing of the BF X range is made of **high-quality ABS** and **polystyrene**. It provides a **long-lasting, shockproof** and **robust** construction.

## Features

### Construction

Casing made of **high quality ABS** provides long lasting shock-proof and robust construction with **IPX4** protection degree. The unit is finished in white **RAL 9010** and is **UV resistant**. Fan is supplied with **removable PP filter** to protect the impeller and the motor from dust. **Aesthetic flat front cover** provides a modern interior design.

### Impeller

High quality, **forward-curved radial** impeller providing enhanced aerodynamic properties, **low noise** and **high efficiency**.

### Motor

Single phase **2-speed AC motor** mounted on **ball bearings** that guarantee a **long product** life cycle and suitable for **continuous** and **intermittent** running even in **cold climates**. All motors are suitable for **50Hz** and **60Hz**.

### Motor protection

BF X fan motors have **integrated thermal protection**.

### Control

All BF X fans can be manually operated via a separate **ON/OFF switch** or the **light switch**.

Version with **Timer (TX)**. After switching off, the fan is running for the pre-set period of time.

Version with **Humidistat & Timer (HTX)**. When humidity level is higher/lower than the threshold, the fan is automatically activated. After switching off, the fan is running for the preset period of time.

### Installation

Fan can be installed on **wall/panel** or **ceiling**. Fan suitable to extract stale air **directly** to the outside or **through long length ducting**.

Fan is **double insulated**: **no earth** connection is required when connecting to the power source.

## Technical parameters

### Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	29	W
Input power kW	0.029	kW
Input current	0.124	A
Impeller speed	2,480	rpm
Air flow	max 0.0174	m³/s
Temperature of transported air	max 50	°C

### Sound data

Sound pressure level at 3m (free field)	38	dB(A)
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### Protection/Classification

Enclosure class, motor	IPX4
Insulation class	B

### Data according to ErP

Energy class, Basic unit	D
Energy class, Local demand	F
ErP ready	ErP 2018

### Dimensions and weights

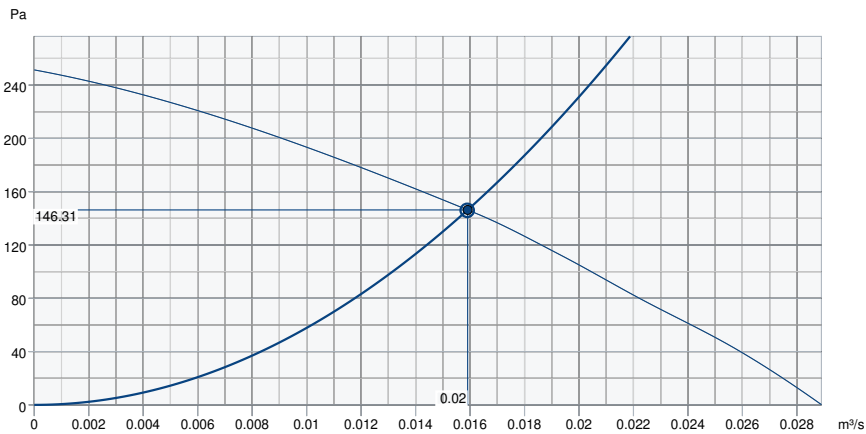
Duct dimension; Circular, inlet	100	mm
Weight	1.9	kg

### Others

Motor type	AC
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## Performance

### Performance curve



#### Hydraulic data

Required air flow	0.02 m³/s
Required static pressure	146 Pa
Working air flow	0.02 m³/s
Working static pressure	146 Pa
Air density	1.204 kg/m³
Power	26.9 W
Fan control - RPM	2,188 rpm
Current	0.12 A
SFP	1.689 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

**Ecodesign**

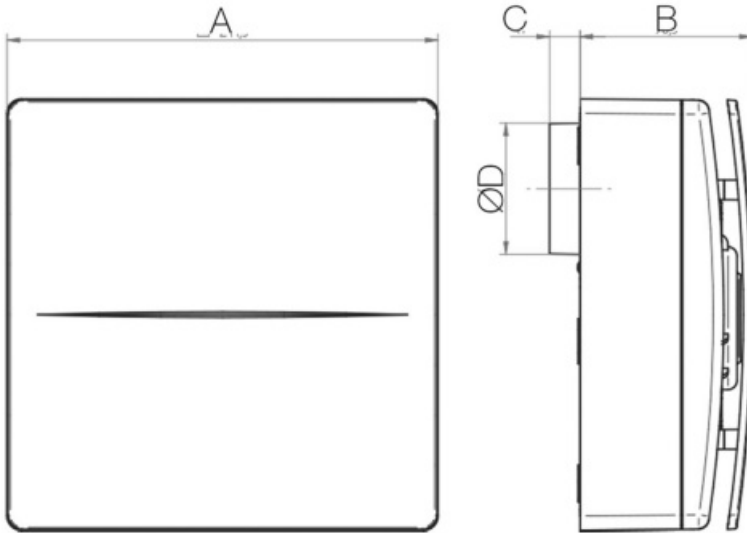
<b>Ecodesign</b>		
ErP compliance		2018
Unit category		RVU
Drive		External MSD or VSD
Unit type		UVU
Heat recovery type		nan
Temperature ratio (UVU)		Not applicable
qv nom	0.0159	m³/s
P nom	0.027	kW
Ps nom	147	Pa
Fan efficiency	8.7	%

<b>Basic unit</b>		
ErP compliance		2018
SEC Average	-5.88	kWh/(m².a)
SEC Cold	-22.28	kWh/(m².a)
SEC Warm	3.52	kWh/(m².a)
SEC Class		F
Unit category		RVU
Unit type		UVU
Drive		External MSD or VSD
Heat recovery type		nan
Temperature ratio (UVU)		Not applicable
qv max	21	m³/h
P max	28	W
qv ref	0.0144	m³/s
Ps ref	50	Pa
SPI	0.36	W/(m³/h)
CTRL		1
MISC		1.1
x-value		1.5
External Leakage		Not applicable
AEC average	451	kWh
AHS Cold	451	kWh
AEC warm	451	kWh
AHS Average	17	kWh/a
AHS Cold	34	kWh/a
AHS Warm	8	kWh/a

**Units with local demand control**

ErP compliance	2018
SEC Average	-22.39 kWh/(m <sup>2</sup> .a)
SEC Cold	-49.45 kWh/(m <sup>2</sup> .a)
SEC Warm	-6.89 kWh/(m <sup>2</sup> .a)
SEC Class	D
Unit category	RVU
Unit type	UVU
Drive	External MSD or VSD
Heat recovery type	nan
Temperature ratio (UVU)	Not applicable
qv max	36 m <sup>3</sup> /h
P max	28 W
qv ref	0.0245 m <sup>3</sup> /s
SPI	0.36 W/(m <sup>3</sup> /h)
CTRL	0.65
MISC	1.1
x-value	1.5
External Leakage	Not applicable
AEC average	236 kWh
AEC cold	236 kWh
AEC warm	236 kWh
AHS Average	28 kWh/a
AHS Cold	55 kWh/a
AHS Warm	13 kWh/a

**Dimension**



BF	A	B	C	ØD	(mm)
80	241,5	96,5	17	73,5	
100	241,5	96,5	17	96	

## Documents

- Installation manual BF-X
- DECLARATION\_OF\_CONFORMITY\_BF\_\_DMV\_\_IF\_EN\_20230224\_142301454.PDF