



## BF Silent Domestic Fans

### Simple and compact extract fan for small domestic spaces

- Robust. IPX4 protection degree
- Low power consumption
- Low noise
- Integral back-draught shutter

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

#### Flexible

The **unobtrusive** design of the BF Silent, range of installation options and **simple control** allows it to be used in **bathrooms, toilets** and **small/medium premises**.

#### Durable

Each unit is built from **robust, durable** components and suitable for **continuous** and **intermittent** running even in **cold climates**. Fans are **fully recyclable** once it has reached the end of its operational lifespan.

## 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 has **integral back-draught shutter** to prevent air flowing back into the room when the fan is off. **Aesthetic flat front cover** provides a modern interior design.

### Impeller

Special design **winglet-type axial impeller**, providing enhanced aerodynamic properties, **low noise** and **high efficiency**.

### Motor

Single-phase induction **AC motors**, mounted on sealed for life, high quality sleeve bearings. Suitable for continuous and intermittent operation. All motors are suitable for **50Hz** and **60Hz**.

### Motor protection

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

### Control

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

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

Version with **Humidistat & Timer (HT)**. When humidity level is higher/lower than the threshold, the fan is automatically activated. After switching off, the fan is running for the pre-set 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 short 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                    | 14      | W    |
| Input current                  | 0.088   | A    |
| Impeller speed                 | 2,230   | rpm  |
| Air flow                       | max 140 | m³/h |
| Temperature of transported air | max 50  | °C   |

### Sound data

|   |    |       |
|---|----|-------|
| Sound pressure level at 3m (20m² Sabin) | 34 | dB(A) |
|---|----|-------|

### Protection/Classification

|                        |      |
|------------------------|------|
| Enclosure class, motor | IPX4 |
| Insulation class       | B    |

### Data according to ErP

|                            |   |
|----------------------------|---|
| Energy class, Basic unit   | C |
| Energy class, Local demand | E |

### Dimensions and weights

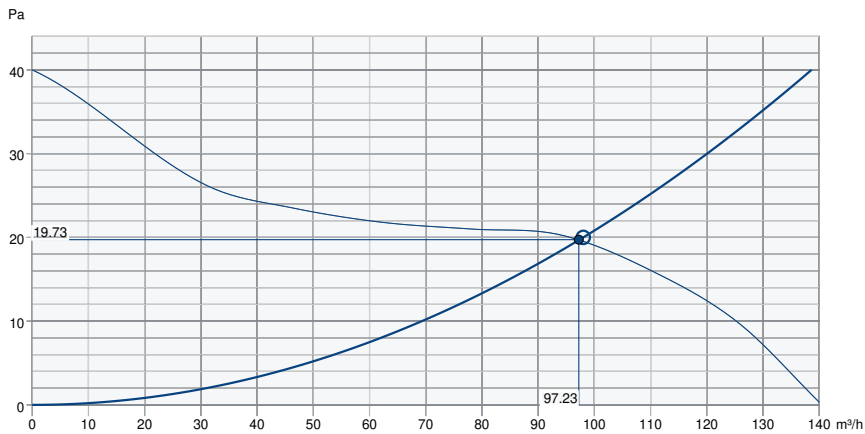
|                                 |      |    |
|---------------------------------|------|----|
| Duct dimension; Circular, inlet | 120  | mm |
| Weight                          | 0.77 | kg |

### Others

|            |    |
|------------|----|
| Motor type | AC |
|------------|----|

## Performance

### Performance curve



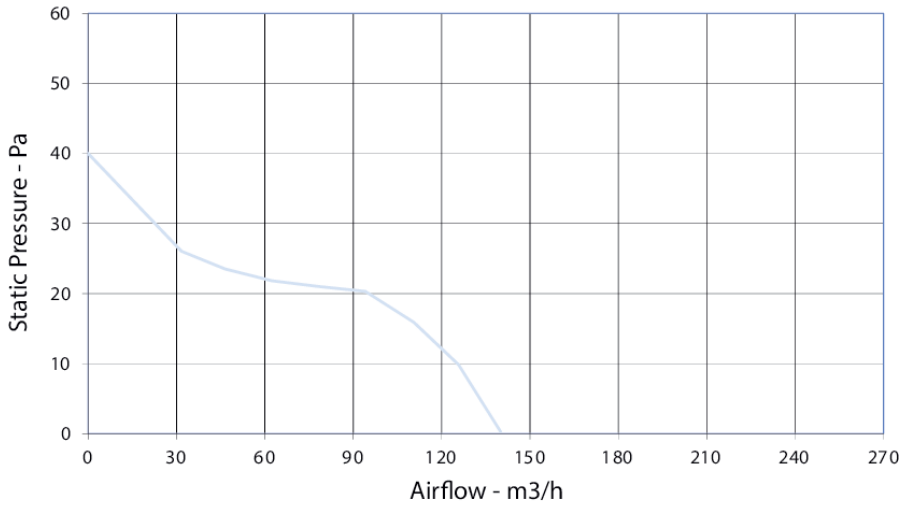
#### Hydraulic data

|                          |               |
|--------------------------|---------------|
| Required air flow        | 98 m³/h       |
| Required static pressure | 20 Pa         |
| Working air flow         | 97 m³/h       |
| Working static pressure  | 20 Pa         |
| Air density              | 1.204 kg/m³   |
| Power                    | 12.8 W        |
| Fan control - RPM        | 2,316 rpm     |
| Current                  | 0.10 A        |
| SFP                      | 0.474 kW/m³/s |
| Control voltage          | 230.0 V       |
| Supply voltage           | 230 V         |

#### Accessories

## Performances

BF Silent 120



## Ecodesign

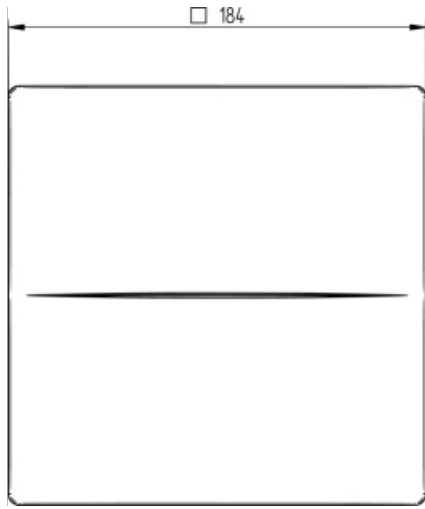
| Ecodesign               |                     |
|-------------------------|---------------------|
| ErP compliance          | 2018                |
| Unit category           | RVU                 |
| Drive                   | External MSD or VSD |
| Unit type               | UVU                 |
| Heat recovery type      | None                |
| Temperature ratio (UVU) | Not applicable      |
| qv nom                  | 0 m <sup>3</sup> /s |
| P nom                   | 0.013 kW            |
| Ps nom                  | 20 Pa               |
| Fan efficiency          | 4.2 %               |

| Basic unit              |        |                         |
|-------------------------|--------|-------------------------|
| ErP compliance          |        | 2018                    |
| SEC Average             | -11.3  | kWh/(m <sup>2</sup> .a) |
| SEC Cold                | -27.7  | kWh/(m <sup>2</sup> .a) |
| SEC Warm                | 1.91   | kWh/(m <sup>2</sup> .a) |
| SEC Class               |        | C                       |
| Unit category           |        | RVU                     |
| Unit type               |        | UVU                     |
| Drive                   |        | External MSD or VSD     |
| Heat recovery type      |        | None                    |
| Temperature ratio (UVU) |        | Not applicable          |
| qv max                  | 98     | m <sup>3</sup> /h       |
| P max                   | 13     | W                       |
| qv ref                  | 0.0114 | m <sup>3</sup> /s       |
| Ps ref                  | 50     | Pa                      |
| SPI                     | 0.187  | W/(m <sup>3</sup> /h)   |
| CTRL                    |        | 1                       |
| MISC                    |        | 1.1                     |
| x-value                 |        | 1.5                     |
| External Leakage        |        | Not applicable          |
| AEC average             | 234    | kWh                     |
| AHS Cold                | 234    | kWh                     |
| AEC warm                | 234    | kWh                     |
| AHS Average             | 17     | kWh/a                   |
| AHS Cold                | 34     | kWh/a                   |
| AHS Warm                | 8      | kWh/a                   |

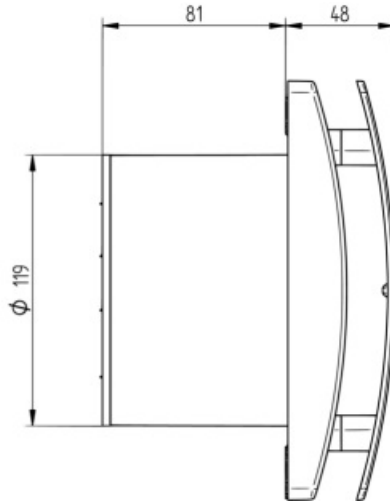
**Units with local demand control**

|                         |                                |
|-------------------------|--------------------------------|
| ErP compliance          | 2018                           |
| SEC Average             | -25.24 kWh/(m <sup>2</sup> .a) |
| SEC Cold                | -52.3 kWh/(m <sup>2</sup> .a)  |
| SEC Warm                | -9.73 kWh/(m <sup>2</sup> .a)  |
| SEC Class               | C                              |
| Unit category           | RVU                            |
| Unit type               | UVU                            |
| Drive                   | External MSD or VSD            |
| Heat recovery type      | None                           |
| Temperature ratio (UVU) | Not applicable                 |
| qv max                  | 98 m <sup>3</sup> /h           |
| P max                   | 13 W                           |
| qv ref                  | 0.0192 m <sup>3</sup> /s       |
| Ps ref                  | 50 Pa                          |
| SPI                     | 0.187 W/(m <sup>3</sup> /h)    |
| CTRL                    | 0.65                           |
| MISC                    | 1.1                            |
| x-value                 | 1.5                            |
| External Leakage        | Not applicable                 |
| AEC average             | 123 kWh                        |
| AEC cold                | 123 kWh                        |
| AEC warm                | 123 kWh                        |
| AHS Average             | 28 kWh/a                       |
| AHS Cold                | 55 kWh/a                       |
| AHS Warm                | 13 kWh/a                       |

## Dimension



(mm)



## Accessories

- [Gasket CG120 to BF Silent \(231909\)](#)

## Documents

- [Installation manual BF Silent.pdf](#)
- [DECLARATION\\_OF\\_CONFORMITY\\_BF\\_\\_DMV\\_\\_IF\\_EN\\_20230224\\_142301454.PDF](#)