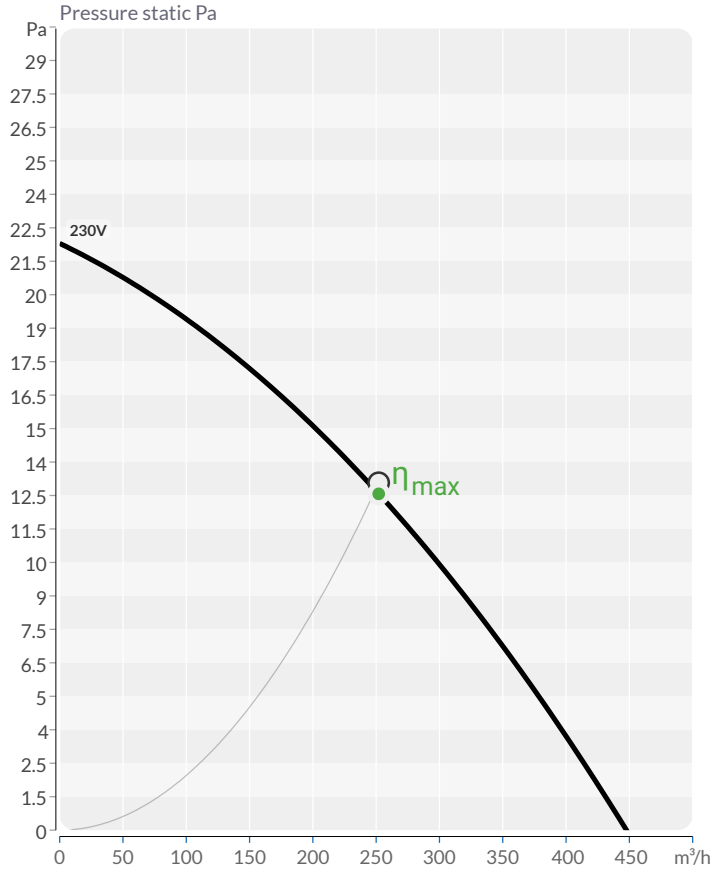


#### Design point

|                     |            |     |      |
|---------------------|------------|-----|------|
| Flow                | Q          | 252 | m³/h |
| Pressure            | $\Delta p$ | 13  | Pa   |
| Ambient temperature | $t_{MED}$  | 20  | °C   |

#### Duty point

|                                |                  |      |      |        |
|--------------------------------|------------------|------|------|--------|
| Flow                           | Q                | 249  | 252  | m³/h   |
| Static pressure                | $\Delta p_{ST}$  | 13   | 13   | Pa     |
| Dynamic pressure               | $\Delta p_D$     | 7    | 7    | Pa     |
| Total pressure                 | $\Delta p_{TOT}$ | 20   | 20   | Pa     |
| Absorbed power                 | $P_{ABS}$        | 24   | 24   | W      |
| Current                        | $I_{ABS}$        | 0.11 | 0.11 | A      |
| Instantaneous Rotational Speed | n                | 1768 | 1771 | rpm    |
| Speed                          | v                | 3.45 | 3.48 | m/s    |
| Static efficiency              | $\eta_{ST}$      | 3.7  | 3.7  | %      |
| Total efficiency               | $\eta_{TOT}$     | 5.7  | 5.8  | %      |
| SFP                            | SFP              | 347  | 343  | W/m³/s |
| Fan Energy Index               | FEI              | -    | -    |        |
| Regulation                     |                  | -    | -    | V      |

| Sound power level         | 63Hz | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Σ  |
|---------------------------|------|-------|-------|-------|------|------|------|------|----|
| Inlet - L <sub>WA5</sub>  | -    | -     | -     | -     | -    | -    | -    | -    | -  |
| Outlet - L <sub>WA6</sub> | -    | -     | -     | -     | -    | -    | -    | -    | -  |
| Edited - L <sub>WA2</sub> | 29   | 43    | 50    | 55    | 55   | 55   | 50   | 42   | 61 |
| Sound pressure level      | 63Hz | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Σ  |
| Inlet - L <sub>PA5</sub>  | -    | -     | -     | -     | -    | -    | -    | -    | -  |
| Outlet - L <sub>PA6</sub> | -    | -     | -     | -     | -    | -    | -    | -    | -  |
| Edited - L <sub>PA2</sub> | -    | 29    | 36    | 41    | 41   | 41   | 36   | 28   | 47 |

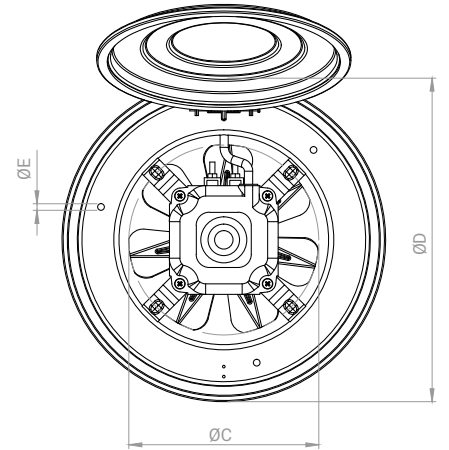
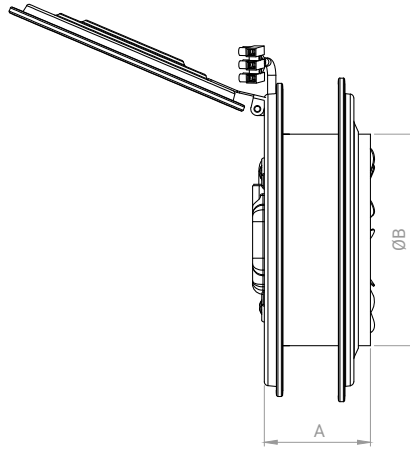
The sound pressure level was determined for the conditions  
 distance from the fan 3m, slope factor Q: 2, sound wave disturbance, equivalent absorption area 200m² Sabine

#### Nominal parameters

|                                       |                  |      |       |
|---------------------------------------|------------------|------|-------|
| Maximum Airflow Volume                | $Q_{MAX}$        | 450  | m³/h  |
| Maximum Static Pressure               | $\Delta p_{MAX}$ | 25   | Pa    |
| Nominal power                         | $P_{NOM}$        | 32   | W     |
| Nominal Rotational Speed              | n                | 2500 | rpm   |
| Nominal current                       | $I_{NOM}$        | 0.14 | A     |
| Nominal voltage                       | $U_{NOM}$        | 230  | V     |
| Number of phases                      | ~                | 1    |       |
| Nominal frequency                     | $f_{NOM}$        | 50   | Hz    |
| Sound pressure level from the housing | $L_{PA2}$        | 40   | dB(A) |
| Diameter                              | Ø                | 160  | mm    |
| Unit weight                           | m                | 1.8  | kg    |
| Minimum operating temperature         | $t_{OPmin}$      | -20  | °C    |
| Maximum operating temperature         | $t_{OPmax}$      | 40   | °C    |
| Maximum medium temperature            | $t_{MEDmax}$     | 40   | °C    |
| Maximum ambient temperature           | $t_{AMBmax}$     | 40   | °C    |
| Capacitor voltage                     | $U_{CAP}$        | 400  | V     |
| Number of Motor Poles                 | pole             | 4    | x     |
| Motor type                            |                  | AC   |       |
| Type of motor control                 |                  | V    |       |
| Motor insulation class                |                  | H    |       |
| Motor protection class                |                  | IP54 |       |



Dimensions [mm]



| A   | B   | C   | D   | E | F   |
|-----|-----|-----|-----|---|-----|
| 100 | 162 | 148 | 236 | 5 | 194 |

**Fan Components and Material Properties**

Body and fan are made of electrostatic powder coated sheet steel. The motor and fan impeller are connected to the main body by steel carriers. Easily mounted on windows and wall. Provides strong airflow thanks to ideal blade angles.

**Benefits**

Provides strong airflow thanks to ideal blade angles. Covered structure with unwanted air, dust, rain, etc. prevents entry. It has a compact design.

**Speed Control**

Optional control devices can be provided.

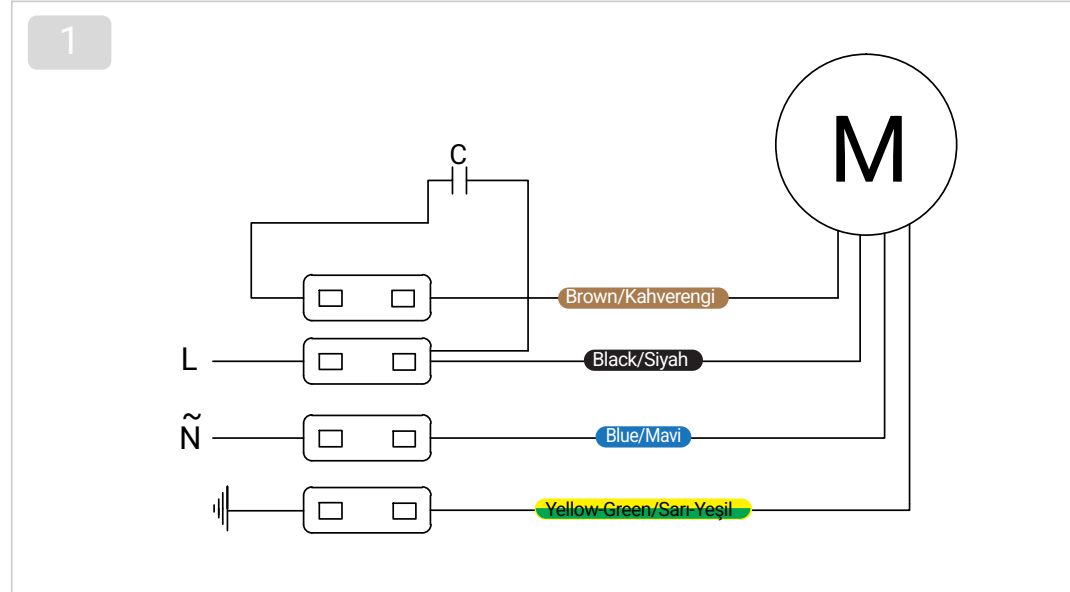
\* Speed control can be done with linear voltage regulator (see BSC accessory).

**Usage Areas**

It is used in the kitchen, bathroom, office and workplaces where smelly, smoke-like air is required to be discharged.

**Accessory list**

**BSC-1**  
 Speed control devices

**Electric connection diagram**

**Support/Files**

1. <https://www.bvnair.com/fansecim/data/f.php?path=cad%2FBK.zip>
2. [https://www.bvnair.com/fansecim/data/f.php?path=dimension%2FBK\\_drawing.pdf](https://www.bvnair.com/fansecim/data/f.php?path=dimension%2FBK_drawing.pdf)
3. [https://www.bvnair.com/fansecim/data/f.php?path=manual%2FBK-BK\\_manual.pdf](https://www.bvnair.com/fansecim/data/f.php?path=manual%2FBK-BK_manual.pdf)
4. [https://www.bvnair.com/fansecim/data/f.php?path=certificate%2FEAC\\_RU.pdf](https://www.bvnair.com/fansecim/data/f.php?path=certificate%2FEAC_RU.pdf)

