



## BDRS

### SHEET METAL HOUSING / Forward Curved

#### Fan Components and Material Properties

Body and hat are made of electrostatic powder coated sheet metal. The protective wire cage is made of electrostatic powder coated steel. The motor and fan impeller are connected to the main body by steel carriers. The device is capable of handling air at max.40°C.

#### Fan Structure

The wings made of galvanized and manufactured in aerodynamic structure to provide airfoil and regular flow. Thanks to its aerodynamic wing structure, it works quietly.

#### Benefits

It works with low noise levels and is designed to be maintenance-free for long periods of time. Because of both suction and shooting capability, it is possible to dispose of the polluted air in the environment and fresh air to the environment. Can be installed in the desired pain. Speed can be adjusted with speed control devices.

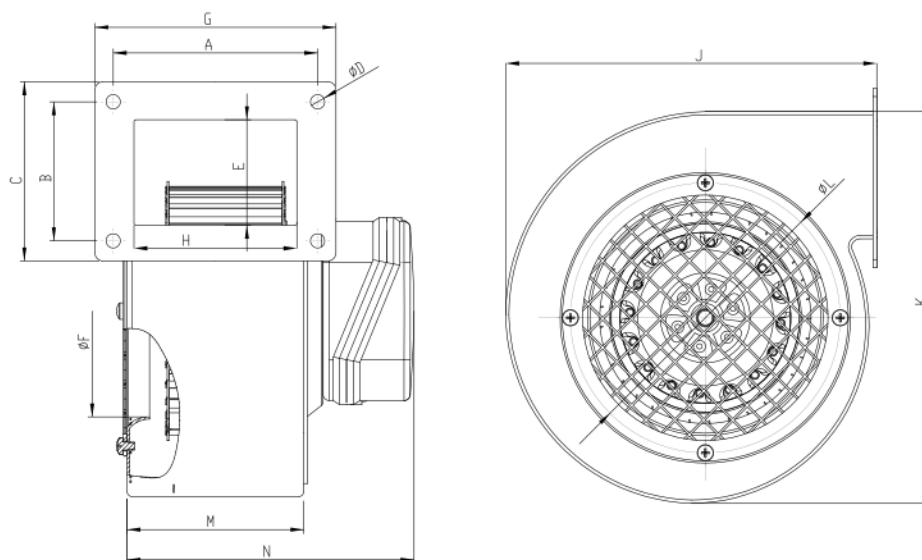
#### Speed Control

Optional control devices can be provided. With 1~phase products, speed control can be done with linear voltage regulator. (see BSC accessory) 3~phase products can be controlled by frequency inverter (see BSC-F accessory).

#### Usage Areas

BDRS centrifugal fans have low noise level, high pressure properties. They save space thanks to their compact structure. It is lightweight and easy to assemble. It is resistant to corrosion by its electrostatic painted outer body. It is installed in solid fuel boilers and transmits the fresh air required for combustion to the combustion chamber.

### Technical Drawing and Tables

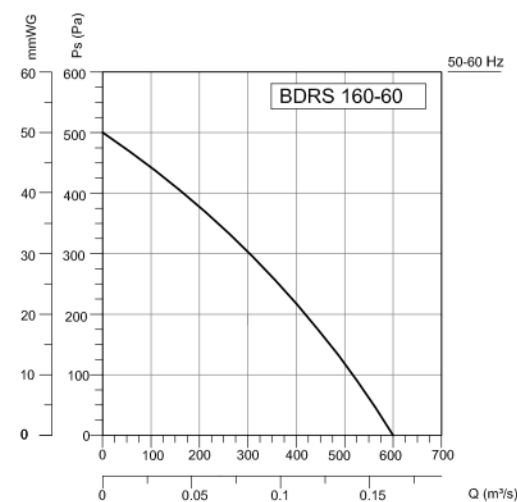
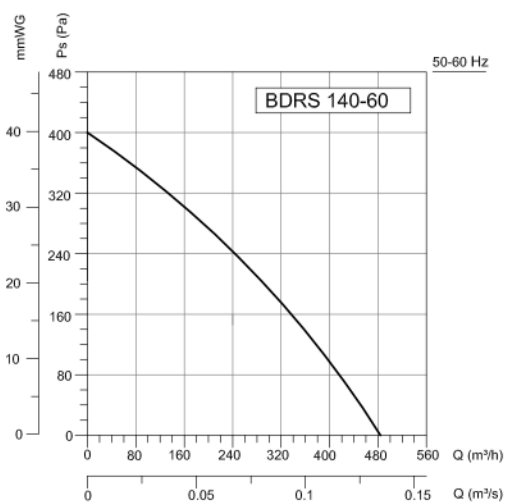
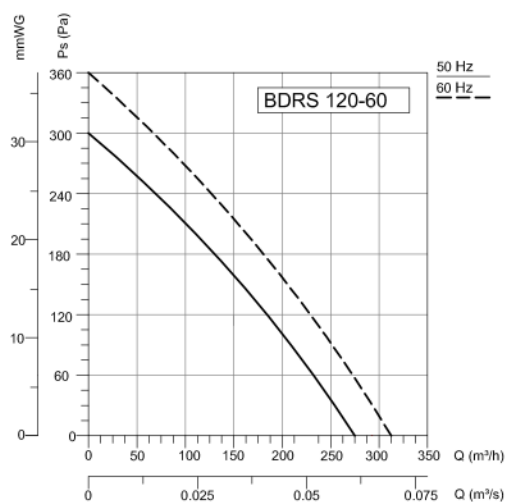
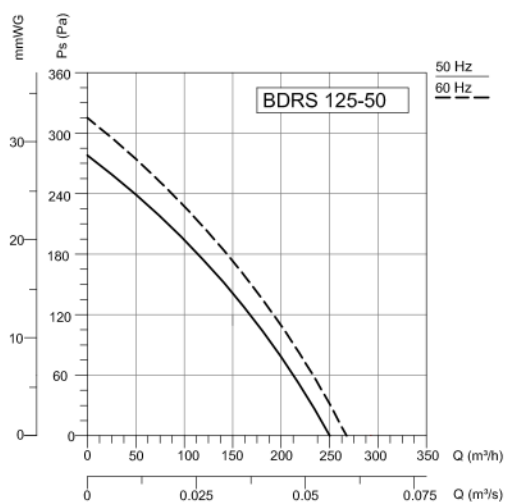


| TYPE        | A    | B    | C     | D | E    | F    | G     | H    | J   | K   | L   | M  | N   |
|-------------|------|------|-------|---|------|------|-------|------|-----|-----|-----|----|-----|
| BDRS 125-50 | 77   | 72   | 88    | 5 | 62   | 98   | 86    | 66   | 170 | 180 | 128 | 68 | 142 |
| BDRS 120-60 | 98,5 | 68,5 | 100   | 5 | 68,5 | 97,5 | 115,5 | 81   | 173 | 183 | 133 | 86 | 145 |
| BDRS 140-60 | 112  | 112  | 129,3 | 5 | 91,5 | 112  | 129   | 83,5 | 206 | 216 | 151 | 91 | 148 |
| BDRS 160-60 | 112  | 112  | 129,3 | 5 | 92,5 | 130  | 129   | 84   | 270 | 260 | 165 | 93 | 152 |

Dimensions are in (mm)

| TYPE        | VOLTAGE | FREQUENCY | POWER   | CURRENT   | CAPACITOR  | SPEED     | AIR FLOW          | SOUND PRESSURE | INSULATION CLASS | PROTECTION CLASS | WEIGHT |
|-------------|---------|-----------|---------|-----------|------------|-----------|-------------------|----------------|------------------|------------------|--------|
|             | V       | Hz        | W       | (A)       | ( $\mu$ F) | r.p.m     | m <sup>3</sup> /h | dB(A)          | Ins.cl.          | IP               | kg     |
| BDRS 125-50 | 230     | 50/60     | 80/100  | 0,35/0,44 | 2,5        | 2450/2600 | 250/265           | 42             | B                | 44               | 2,3    |
| BDRS 120-60 | 230     | 50/60     | 85/105  | 0,38/0,46 | 2,5        | 2250/2550 | 275/310           | 46             | B                | 44               | 2,5    |
| BDRS 140-60 | 230     | 50/60     | 138/175 | 0,61/0,77 | 4          | 2300      | 485               | 48             | B                | 44               | 3,2    |
| BDRS 160-60 | 230     | 50/60     | 200/255 | 0,88/1,12 | 6          | 2250      | 600               | 52             | B                | 44               | 4,3    |

Sound Level Measured from 3m distance in room condition.



## Accessories



BSC