



BHV-R

CABINET FANS / Backward Curved

Fan Components and Material Properties

The BHV-R double suction centrifugal box fan housing and fan are made of high-quality galvanized steel that is resistant to corrosion. 25 mm stone wool was placed between the panels. Car-cass structure is made of aluminum profile. Asynchronous motor belt pulley drive system is used. The device is capable of handling air at max.40°C.

Fan Structure

Fan blades are produced in aerodynamic structure to provide backward curved and regular flow. It is fan welded and electrostatic powder coated.

Benefits

It responds to performance and efficiency with high flow rate and pressure channel systems. The stiff body allows the fan rotor to rotate at high speeds to achieve the desired pressure and flow rates. It prevents the accumulation of foreign materials such as dust and dirt on its sparsely wings. They provide maximum efficiency with low energy.

*Filtered applications are optional. Please contact BVN representatives.

It is acoustically insulated against sound and it has the feature of vibration-free operation. Thanks to the service cover in the construction, it provides easy intervention to maintenance and faults. Prevents unnecessary pressure losses due to the option of selecting the direction of air blowing and suction nozzles.

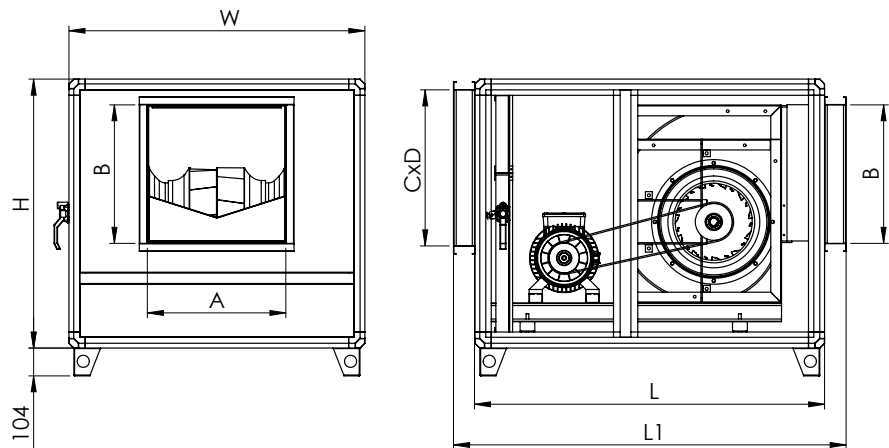
Speed Control

Optional control devices can be provided. In the belt pulley system, speed control can be done by changing the conversion rate or frequency inverter in 3 ~ phase products. (see BSC-F accessory)

Usage Areas

It is used to exhaust fine particulate powders or contaminated air with low oil vapor concentration due to the fact that it is curved with backward curves. It is used as an fan in ducted systems with high pressure losses. It must be used with the filter in the exhaust vent.

Technical Drawing and Tables



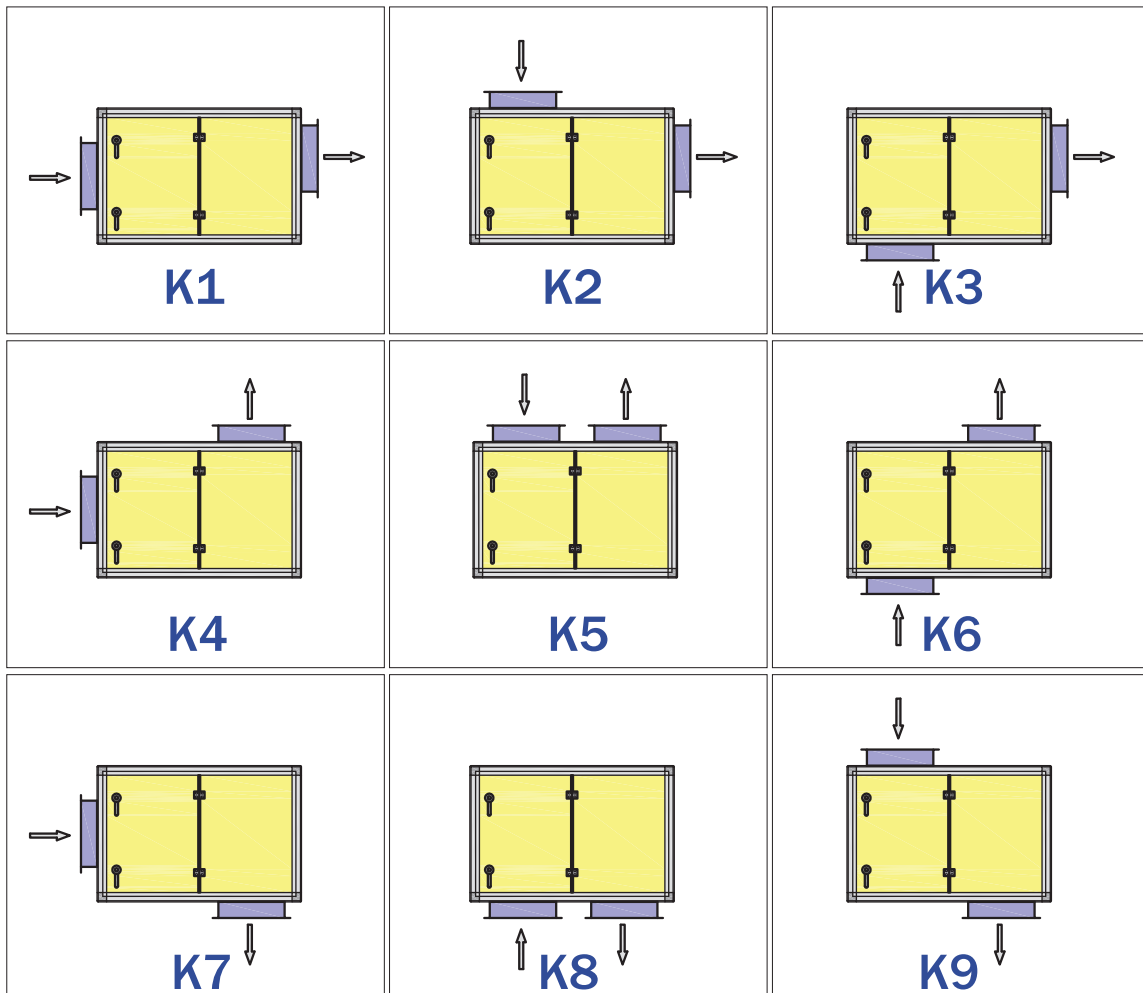
| TYPE | L | W | H | L1 | A | B | C | D |
|-----------|------|------|------|------|-----|-----|------|-----|
| BHV-R 280 | 1050 | 750 | 750 | 1250 | 361 | 361 | 670 | 350 |
| BHV-R 315 | 1100 | 850 | 850 | 1300 | 405 | 405 | 770 | 400 |
| BHV-R 355 | 1200 | 900 | 900 | 1400 | 455 | 455 | 820 | 500 |
| BHV-R 400 | 1300 | 1100 | 1000 | 1460 | 510 | 510 | 1020 | 580 |
| BHV-R 450 | 1400 | 1200 | 1100 | 1560 | 570 | 570 | 1120 | 650 |
| BHV-R 500 | 1600 | 1350 | 1200 | 1720 | 640 | 640 | 1235 | 680 |
| BHV-R 560 | 1700 | 1500 | 1300 | 1820 | 715 | 715 | 1385 | 875 |
| BHV-R 630 | 1950 | 1650 | 1650 | 2070 | 843 | 843 | 1535 | 965 |

Dimensions are in (mm)

| TYPE | VOLTAGE | FREQUENCY | POWER | SPEED | AIR FLOW | PRESSURE | SOUND PRESSURE |
|----------------|---------|-----------|-------|-------|-------------------|----------|----------------|
| | V | Hz | kW | d/d | m ³ /h | Pa | dB(A) |
| BHV-R 280-0,55 | 220/380 | 50 | 0,55 | 1920 | 2000 | 500 | 65 |
| BHV-R 280-0,75 | 220/380 | 50 | 0,75 | 2200 | 2500 | 620 | 66 |
| BHV-R 280-1,1 | 220/380 | 50 | 1,1 | 2400 | 3000 | 700 | 70 |
| BHV-R 315-1,5 | 220/380 | 50 | 1,5 | 2250 | 4000 | 800 | 68 |
| BHV-R 315-2,2 | 220/380 | 50 | 2,2 | 2550 | 5000 | 1000 | 70 |
| BHV-R 315-3 | 220/380 | 50 | 3 | 2680 | 6000 | 1000 | 71 |
| BHV-R 355-2,2 | 220/380 | 50 | 2,2 | 2100 | 5000 | 900 | 66 |
| BHV-R 355-3 | 220/380 | 50 | 3 | 2300 | 6500 | 1000 | 70 |
| BHV-R 355-4 | 220/380 | 50 | 4 | 2450 | 8000 | 1000 | 73 |
| BHV-R 400-3 | 220/380 | 50 | 3 | 1950 | 6000 | 1000 | 69 |
| BHV-R 400-4 | 380 | 50 | 4 | 2030 | 8500 | 1000 | 73 |
| BHV-R 400-5,5 | 380 | 50 | 5,5 | 2250 | 11500 | 1000 | 78 |
| BHV-R 450-3 | 220/380 | 50 | 3 | 1650 | 7000 | 900 | 69 |
| BHV-R 450-4 | 380 | 50 | 4 | 1750 | 9000 | 1000 | 71 |
| BHV-R 450-5,5 | 380 | 50 | 5,5 | 1870 | 12000 | 1000 | 75 |
| BHV-R 500-4 | 380 | 50 | 4 | 1480 | 10000 | 1000 | 71 |
| BHV-R 500-5,5 | 380 | 50 | 5,5 | 1610 | 13000 | 1000 | 74 |
| BHV-R 500-7,5 | 380 | 50 | 7,5 | 1670 | 15000 | 1000 | 76 |
| BHV-R 560-5,5 | 380 | 50 | 5,5 | 1380 | 12000 | 1000 | 65 |
| BHV-R 560-7,5 | 380 | 50 | 7,5 | 1400 | 16000 | 1000 | 67 |
| BHV-R 560-11 | 380 | 50 | 11 | 1550 | 22000 | 1000 | 70 |
| BHV-R 630-11 | 380 | 50 | 11 | 1340 | 25000 | 1000 | 99 |
| BHV-R 630-15 | 380 | 50 | 15 | 1450 | 30000 | 1000 | 102 |
| BHV-R 630-18,5 | 380 | 50 | 18,5 | 1570 | 35000 | 1000 | 105 |

Sound Level Measured from 3m distance in room condition.

VENTILATION UNIT INLET-OUTLET DIRECTION



MAINTENANCE DOOR POSITION

