



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. Carcass 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.

**Motor outside the airstream options are available.

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

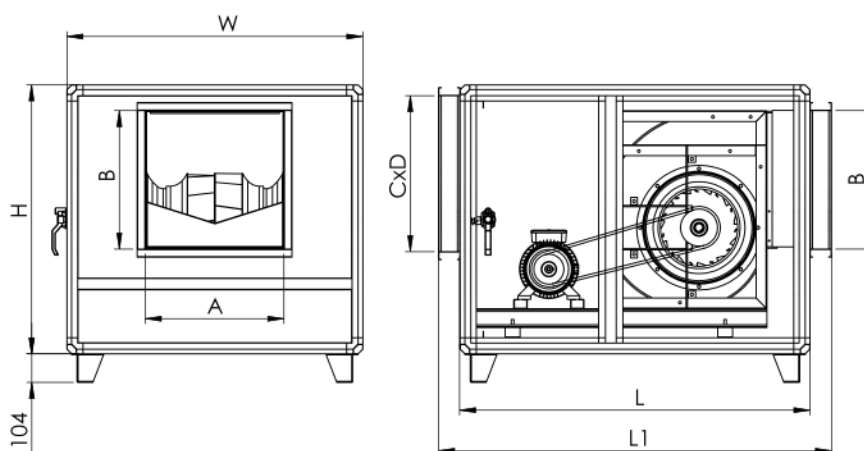
Optional control devices can be provided.

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



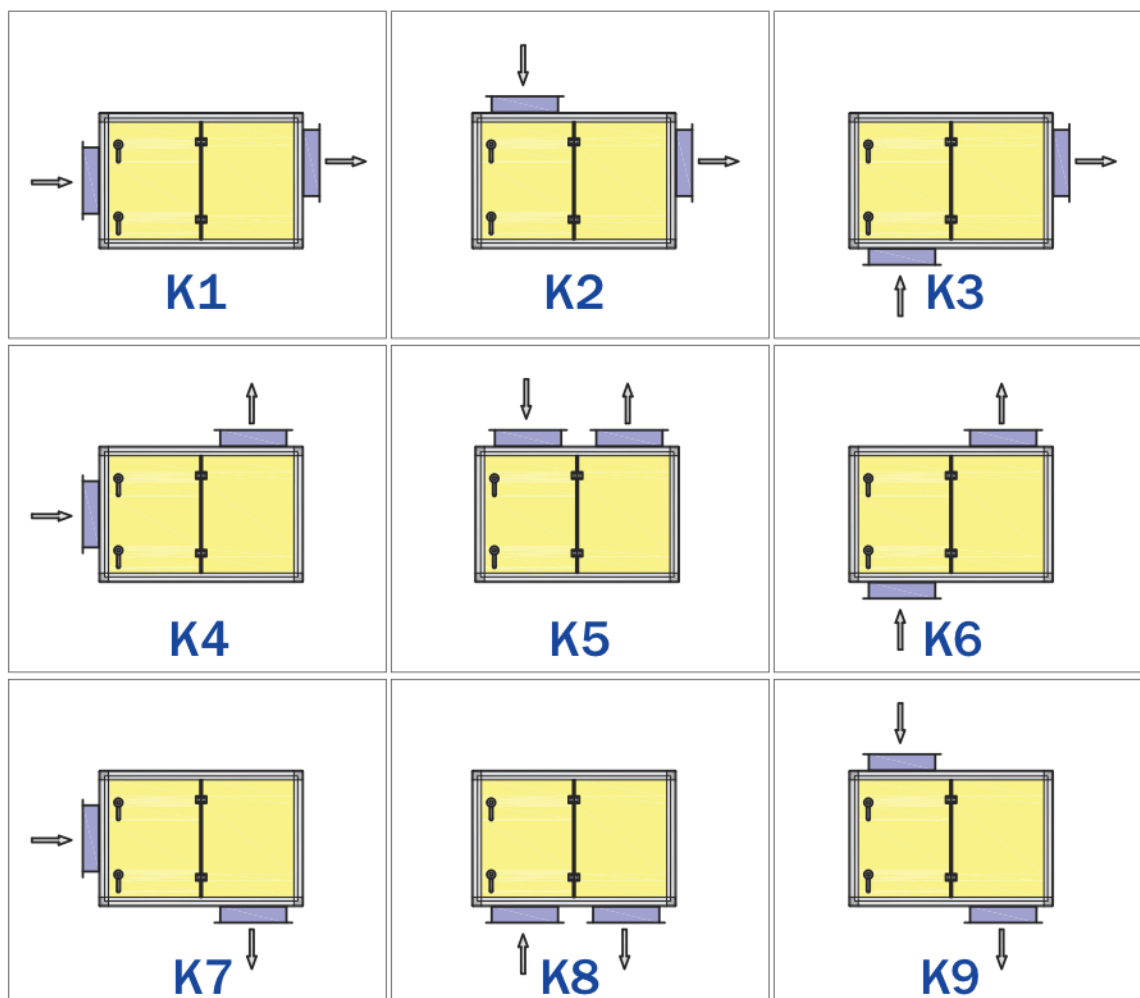
TYPE	L	W	H	L1	A	B	C	D
BHV-R 280	1000	800	800	1040	361	361	715	380
BHV-R 315	1100	900	900	1040	405	405	815	430
BHV-R 355	1100	900	900	1140	455	455	815	430
BHV-R 400	1380	1040	1040	1420	510	510	955	490
BHV-R 450	1540	1230	1140	1580	570	570	1155	500
BHV-R 500	1540	1400	1240	1580	640	640	1315	600
BHV-R 560	1740	1500	1440	1780	715	715	1415	600
BHV-R 630	2040	1600	1500	2080	843	843	1510	720

Dimensions are in (mm)

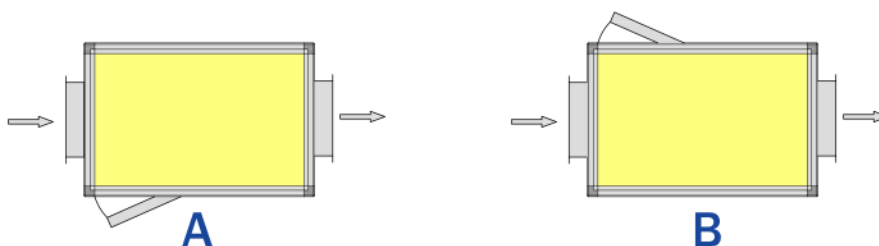
TYPE	VOLTAGE	FREQUENCY	POWER	SPEED	AIR FLOW	PRESSURE	SOUND PRESSURE
	V	Hz	kW	d/d	m ³ /h	Pa	dB(A)
BHV-R 280-0,55	220/380	50	0,55	1920	2000	500	65
BHV-R 280-0,75	220/380	50	0,75	2200	2500	620	66
BHV-R 280-1,1	220/380	50	1,1	2400	3000	700	70
BHV-R 315-1,5	220/380	50	1,5	2250	4000	800	68
BHV-R 315-2,2	220/380	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.

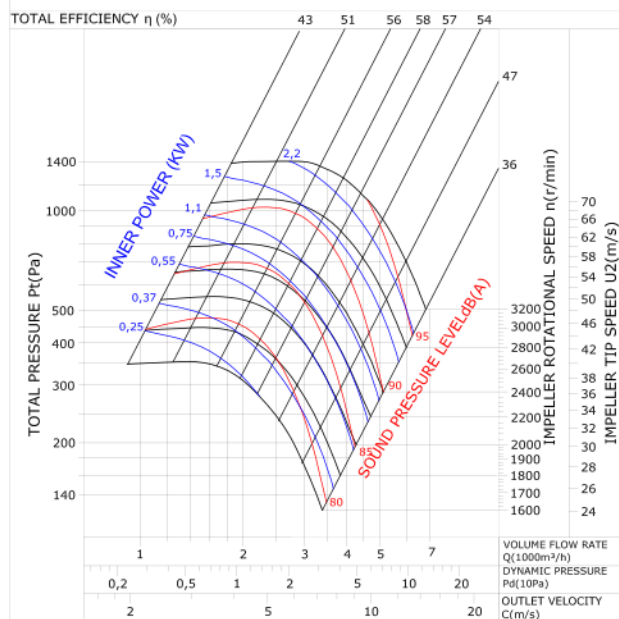
VENTILATION UNIT INLET-OUTLET DIRECTION



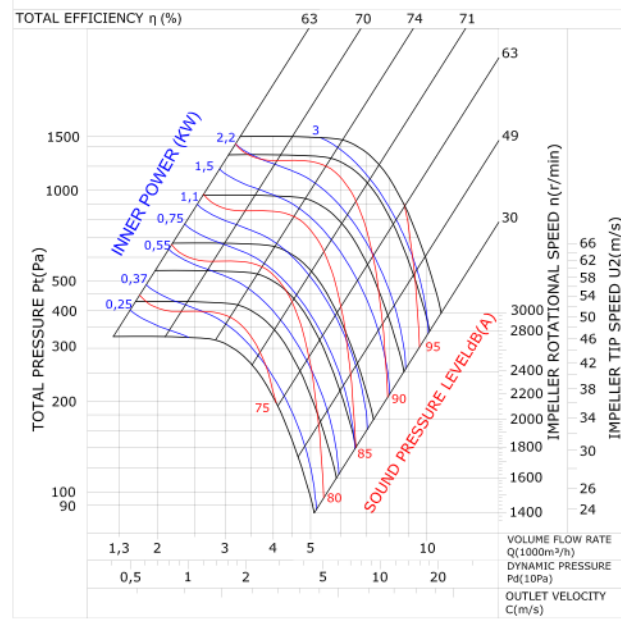
MAINTENANCE DOOR POSITION



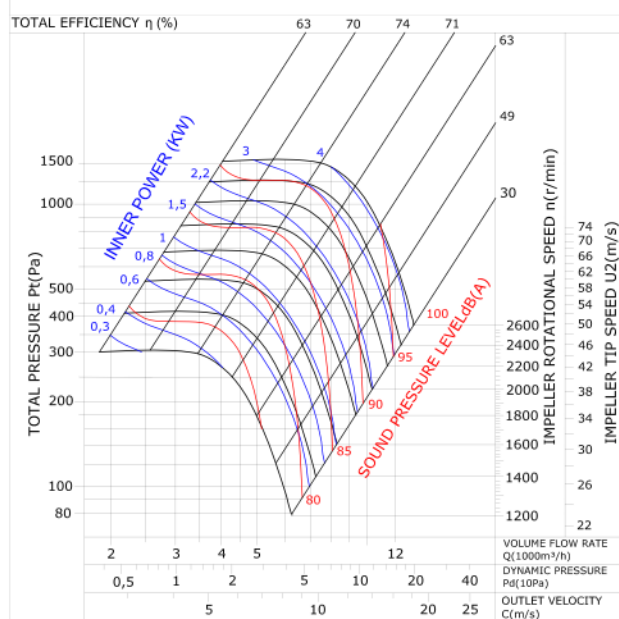
BHV-R 280



BHV-R 315



BHV-R 355



BHV-R 400

