BDS

INDUSTRIAL RADIAL FANS / Forward Curved

Fan Components and Material Properties

The fan housing is made of pressurized aluminum casting. The fans operate at high efficiency and low noise level. In centrifugal fans, higher air transfer is possible due to the fact that the motor is out of airflow. Three-phase and single-phase asynchronous motor uses.

Fan Structure

Single suction, forward curved radial fan type. The fan wheel is made of high quality galvanized steel which is resistant to corrosion and is manufactured in aerodynamic structure to ensure regular flow. Thanks to its aerodynamic wing structure, it works quietly.

Benefits

It has a more rigid body structure. It works with low noise levels and is designed to be maintenance-free for long periods of time. Due to its frequent wing structure and efficient motor, it produces high flow rate and pressure compared to its dimensions. Provides advantages in areas where space is limited. Fan flow rate can be controlled with Klepe. It is not affected by hot and steam air currents. Speed can be adjusted with speed control devices.

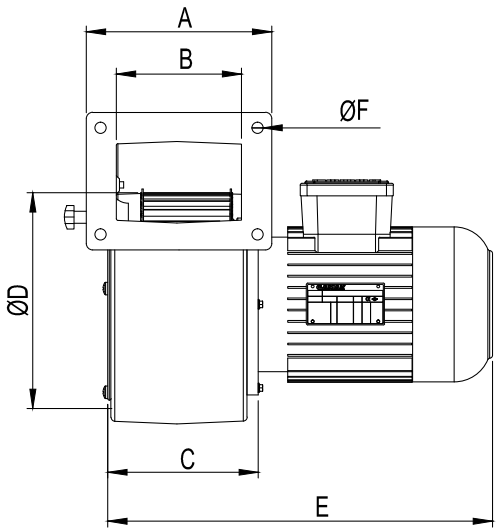
Speed Control

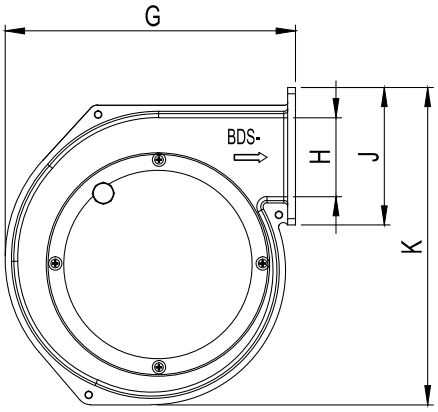
Optional control devices can be provided.
1~phase products with linear voltage regulator speed control can be done. (see BSC accessory)
3~phase products with frequency inverter speed control can be done. (see BSC-F accessory)

Usage Areas

For cooling of machines, solid fuel boilers, industrial furnaces, resistance heating applications etc. Rigid body and high performance are used in the desired areas.

Technical Drawing and Tables





TYPE	A	B	C	D	E	F	G	H	J	K
BDS 1	133	88	127	140	310	7	230	65	125	240
BDS 2	155	114	148	160	360	9	285	108	163	280
BDS 3	160	117	157	180	360	9	310	108	165	300
BDS 4	187	127	168	225	390	9	370	100	163	380
BDS 5	200	155	185	250	435	9	400	155	205	435
BDS 6	200	155	195	268	465	9	405	155	205	440
BDS 7	240	170	200	300	555	10	480	170	250	510
BDS 8	240	170	200	315	555	10	490	170	250	510

Dimensions are in (mm)

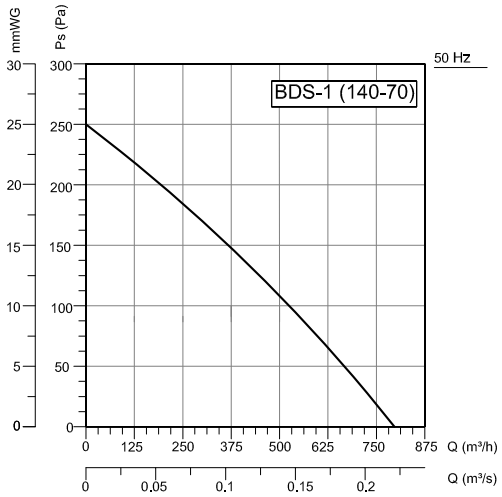
Accessories

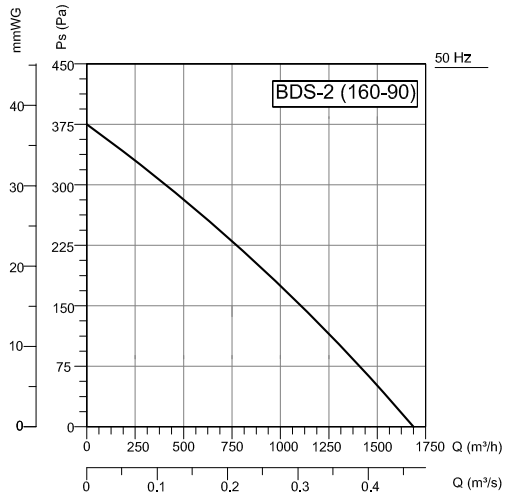

BSC-F

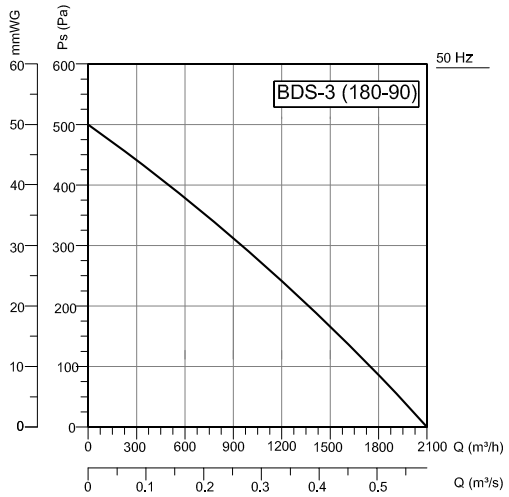

BYF

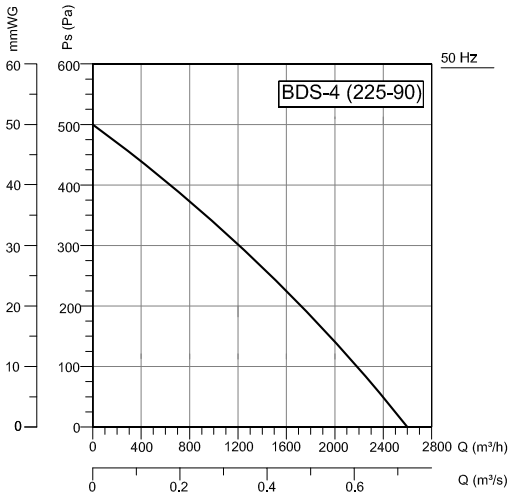
TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	kW	(A)	(µF)	r.p.m	m^3/h	dB(A)	Ins.cl.	IP	kg
BDS 1M (140-70)	230	50	0,25	1,6	10	2870	800	50	F	55	9
BDS 2M (160-90)	230	50	0,37	2,5	15	2885	1700	55	F	55	11
BDS 3M (180-90)	230	50	0,55	3,5	20	2865	2100	60	F	55	13
BDS 4M (225-90)	230	50	0,75	5	30	2770	2600	65	F	55	18
BDS 4M (225-102)	230	50	1,1	7	35	2770	3200	68	F	55	19
BDS 5M (250-112)	230	50	1,5	9,8	40	2820	3700	70	F	55	25
BDS 6M (268-112)	230	50	2,2	13,5	50	2800	4650	71	F	55	31
BDS 1T (140-70)	380	50	0,25	0,67	-	2840	800	50	F	55	9
BDS 2T (160-90)	380	50	0,37	1,05	-	2800	1700	55	F	55	11
BDS 3T (180-90)	380	50	0,55	1,27	-	2780	2100	60	F	55	13
BDS 4T (225-90)	380	50	0,75	1,75	-	2760	2600	65	F	55	18
BDS 4T (225-102)	380	50	1,1	2,3	-	2770	3200	68	F	55	19
BDS 5T (250-112)	380	50	1,5	3,3	-	2820	3700	70	F	55	25
BDS 6T (268-112)	380	50	2,2	4,5	-	2800	4650	71	F	55	31
BDS 7T (300-112)	380	50	4	7,9	-	2880	6200	72	F	55	43
BDS 8T (315-112)	380	50	5,5	10,3	-	2900	8400	73	F	55	48

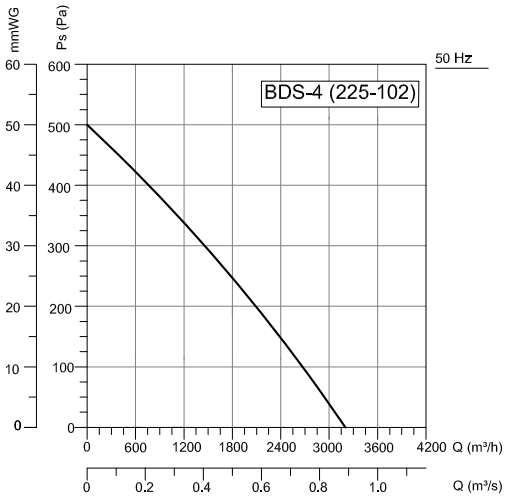
The sound level is measured at a distance of 3 m in open field condition.

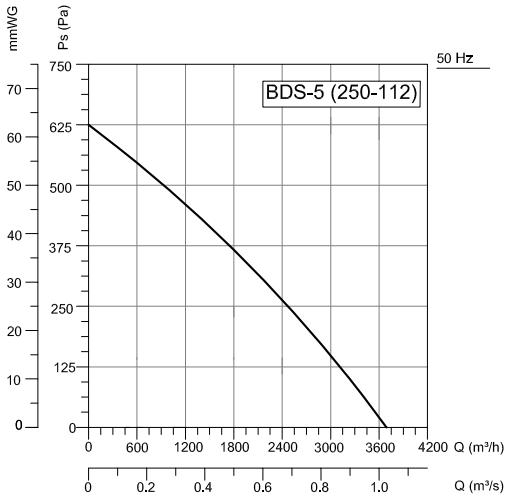


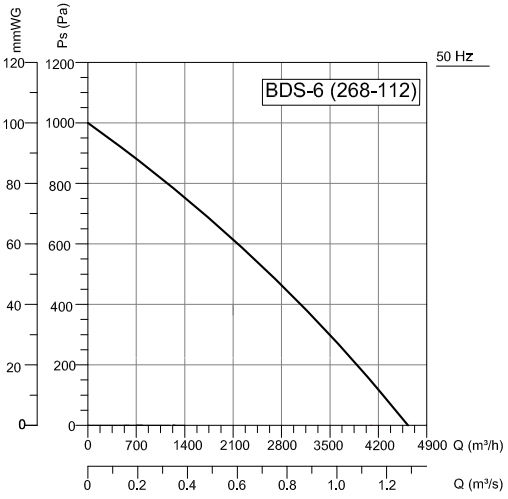


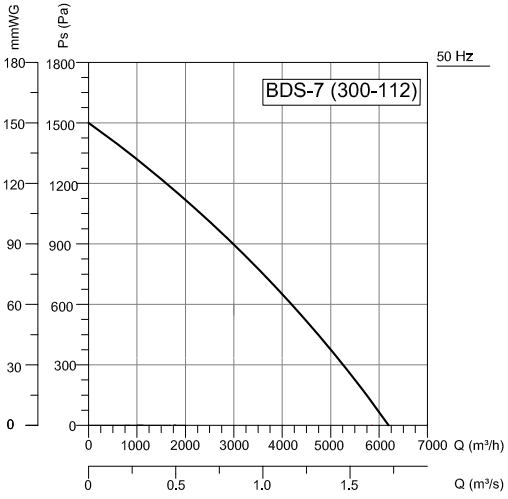


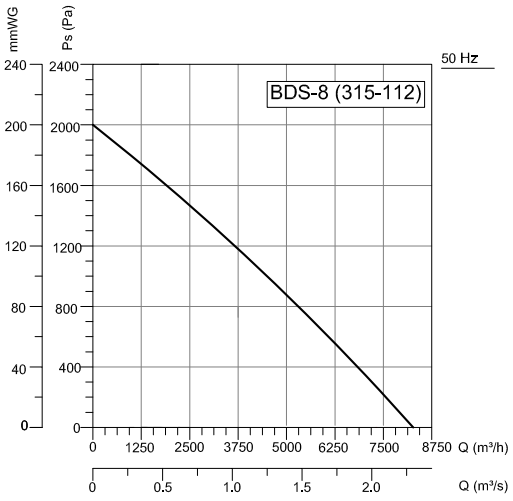



mmWG
Ps (Pa)
50 Hz
BDS-4 (225-102)
Q (m³/h)
Q (m³/s)


mmWG
Ps (Pa)
50 Hz
BDS-5 (250-112)
Q (m³/h)
Q (m³/s)


mmWG
Ps (Pa)
50 Hz
BDS-6 (268-112)
Q (m³/h)
Q (m³/s)


mmWG
Ps (Pa)
50 Hz
BDS-7 (300-112)
Q (m³/h)
Q (m³/s)


mmWG
Ps (Pa)
50 Hz
BDS-8 (315-112)
Q (m³/h)
Q (m³/s)