BDKF-R

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The fans of the Bdkf-r 315-355-400 are made of high quality galvanized steel which is resistant to corrosion. The fans of the Bdkf-r 450-500-560 models are made of aluminum sheet. All models use an asynchronous motor and the motor is out of airflow. The device is capable of carrying air at max. 120ºC.

Fan Structure

It is designed to work between the rectangular channel. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

Since the motor is out of airflow, it is resistant to high temperature. The swing-out lid allows the product to be maintained effortlessly without removing the fan. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices.

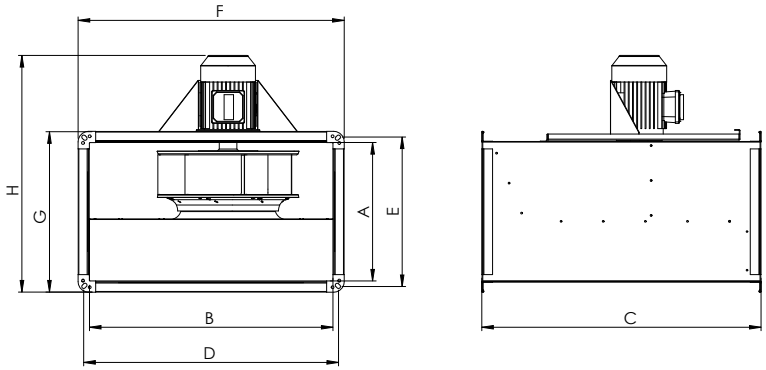
Speed Control

Optional control devices can be provided.
Speed control with frequency inverter can be done in 3 ~ phase products (see BSC-F accessory)

Usage Areas

It is designed to meet medium and high volume ventilation requirements in rectangular duct systems where the application area is limited. It is able to carry air at higher temperatures due to the motor being out of airflow.

Technical Drawing and Tables



TYPE	A	B	C	D	E	F	G	H
BDKF-R 315	350	600	760	620	370	650	400	550
BDKF-R 355	350	600	760	620	370	650	400	550
BDKF-R 400	400	700	800	720	420	750	450	630
BDKF-R 450	400	700	800	720	420	750	450	630
BDKF-R 500	500	800	920	820	520	850	560	780
BDKF-R 560	500	1000	1050	1030	530	1060	560	780

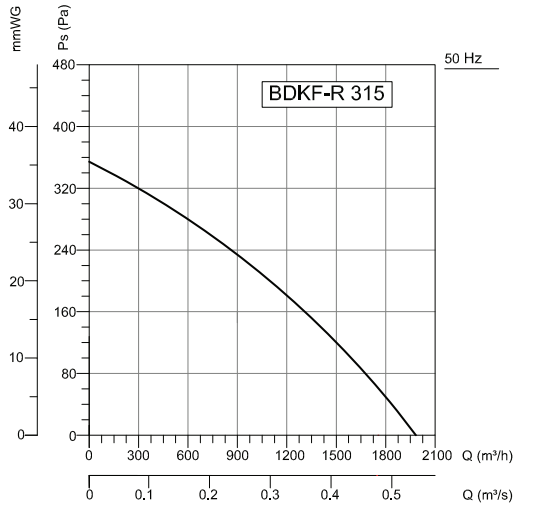
Dimensions are in (mm)

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
BDKF-R 315 M	230	50	0,25	2,1	10	1380	2000	53	F	55	35
BDKF-R 355 M	230	50	0,25	2,1	10	1380	3000	58	F	55	36
BDKF-R 400 M	230	50	0,37	3,4	15	1390	4100	56	F	55	49
BDKF-R 450 M	230	50	0,55	4,5	20	1395	5500	58	F	55	52
BDKF-R 500 M	230	50	1,1	7,5	35	1410	8100	64	F	55	74
BDKF-R 560 M	230	50	2,2	14,2	50	1420	10500	66	F	55	91
BDKF-R 315 T	380	50	0,25	0,87	-	1380	2000	53	F	55	35
BDKF-R 355 T	380	50	0,25	0,87	-	1380	3000	58	F	55	36
BDKF-R 400 T	380	50	0,37	1,2	-	1390	4100	56	F	55	49
BDKF-R 450 T	380	50	0,55	1,6	-	1395	5500	58	F	55	52
BDKF-R 500 T	380	50	1,1	2,6	-	1410	8100	64	F	55	74
BDKF-R 560 T	380	50	2,2	4,9	-	1420	10500	66	F	55	91

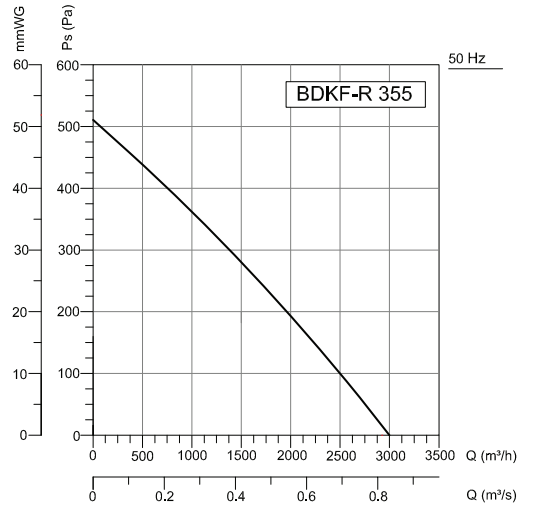
Sound Level Measured from 3m distance in room condition.

Accessories

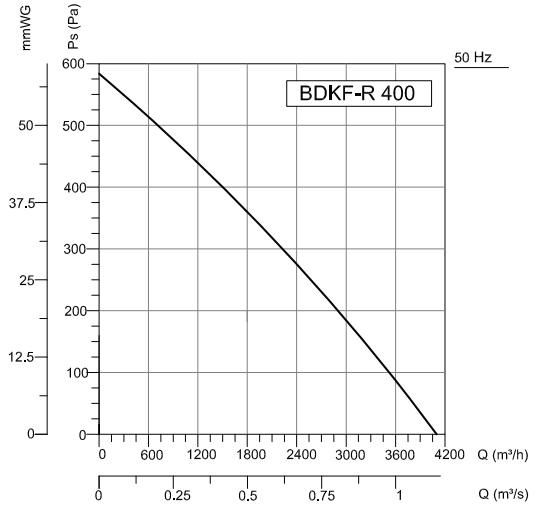
BSC-F BDEB BDH BDKS BFG2 BFG3 BFG4 BFH13 BCTH



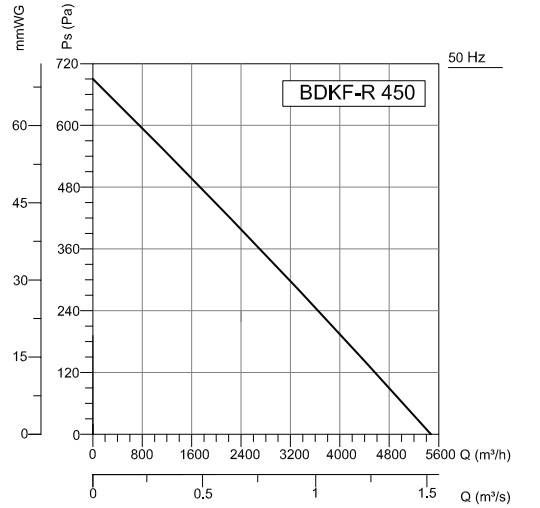
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{wA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{wA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



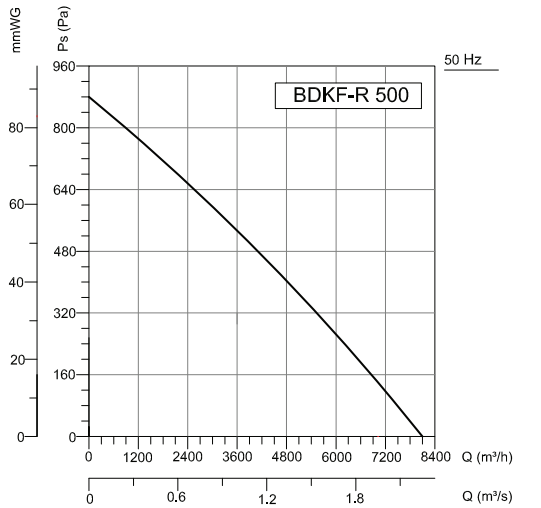
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{wA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{wA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



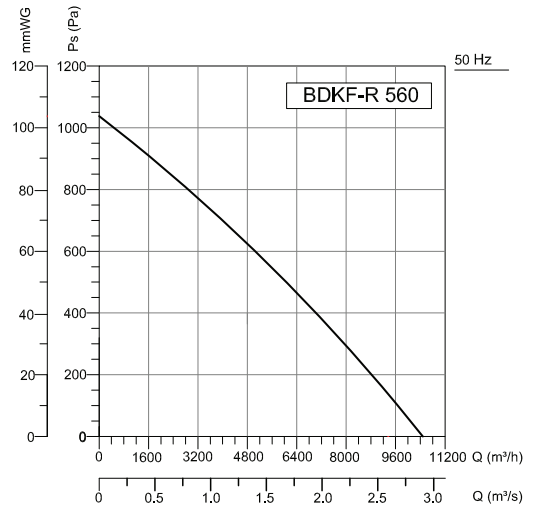
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L_{wA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L_{wA} Surrounding	63	40	60	57	52	51	46	38	35	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{wA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{wA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	79	61	72	71	73	71	71	66	58	dB(A)
L_{wA} Outlet	84	66	75	76	77	79	75	70	61	dB(A)
L_{wA} Surrounding	71	45	68	64	61	61	60	54	43	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	84	70	77	76	78	78	75	71	65	dB(A)
L_{wA} Outlet	89	71	80	81	82	83	80	74	65	dB(A)
L_{wA} Surrounding	73	58	70	65	63	61	58	54	50	dB(A)