BKKF

SQUARE DUCT FANS / Backward Curved

Fan Components and Material Properties

The double-walled body with heat and sound insulation is manufactured from galvanized sheet metal. The fan of the Bkkf 400 is made of high quality galvanized steel which is resistant to corrosion. The fans of the Bkkf 450-500-560 models are made of aluminum sheet. All models have an external rotor motor with closed structure. The device is capable of handling air at max.40°C.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

The swing-out lid allows the product to be maintained effortlessly without removing the fan. They work quietly thanks to isolation. Thanks to the removable panels, the air can be easily steered in the desired way. Speed can be adjusted with speed control devices.

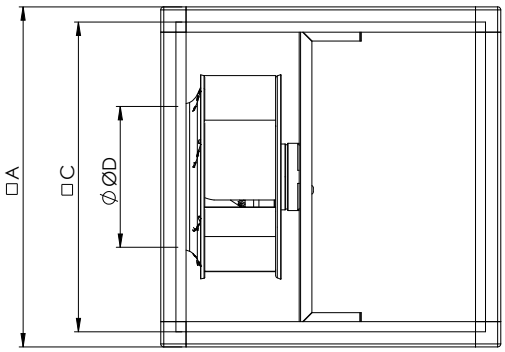
Speed Control

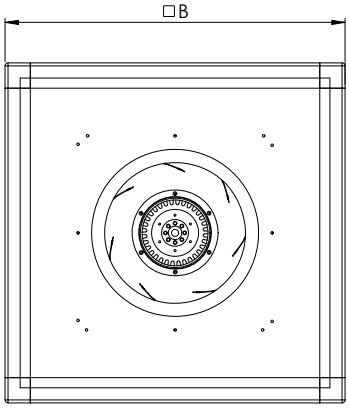
Optional control devices can be provided.Speed control can be done with linear voltage regulator in 1 ~ phase products (see BSC accessory). Speed control with frequency inverter can be done in 3 ~ phase products (see BSC-F accessory)

Usage Areas

It is designed to meet medium and high volume ventilation requirements in channel systems where the application area is limited.

Technical Drawing and Tables



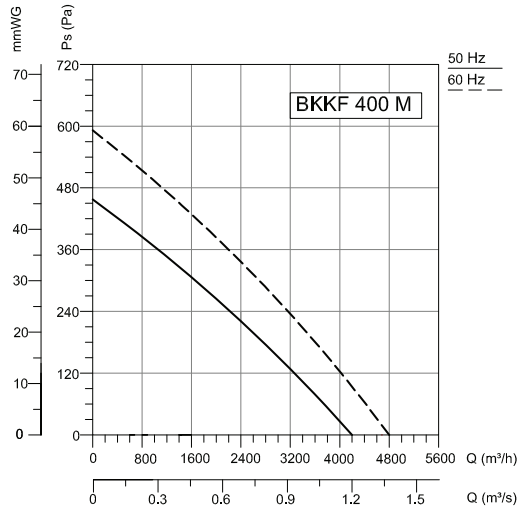


TYPE	A	B	C	D
BKKF 400 M	670	670	610	270
BKKF 450 M	670	670	610	283
BKKF 500 T	670	670	610	344
BKKF 560 T	800	800	740	382

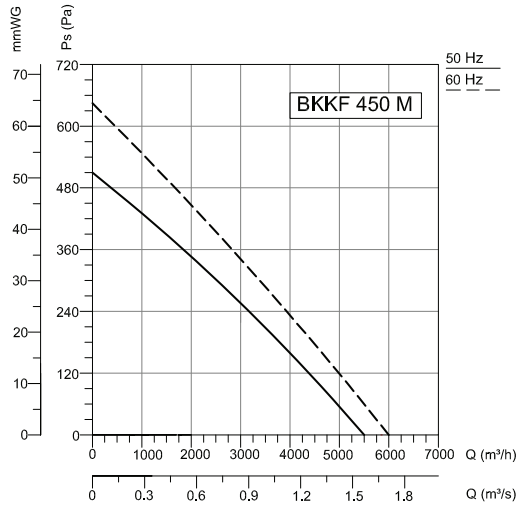
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	W	(A)	(µF)	r.p.m	m^3/h	dB(A)	Ins.cl.	IP	kg
BKKF 400 M	230	50/60	310/460	1,4/2	10	1400/1600	4200/4800	45	F	44	36
BKKF 450 M	230	50/60	480/745	2,5/3,5	10	1400/1550	5500/6000	48	F	44	40
BKKF 500 T	380 Δ/λ	50	960/530	2/1,1	-	1335/1050	7800/6100	52	F	44	51
BKKF 560 T	380 Δ/λ	50	1400/900	2,7/1,7	-	1250/950	9800/7450	55	F	44	65

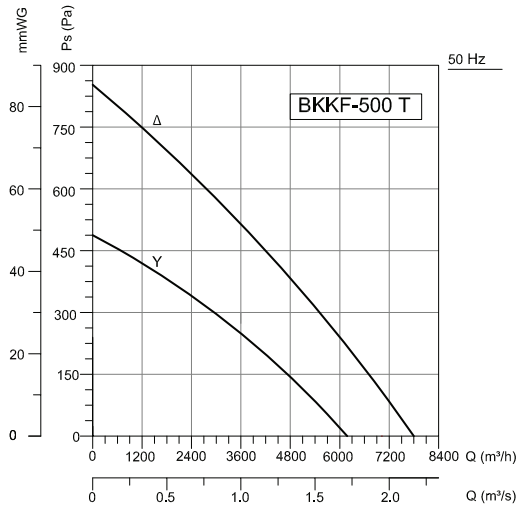
Sound Level Measured from 3m distance in room condition.



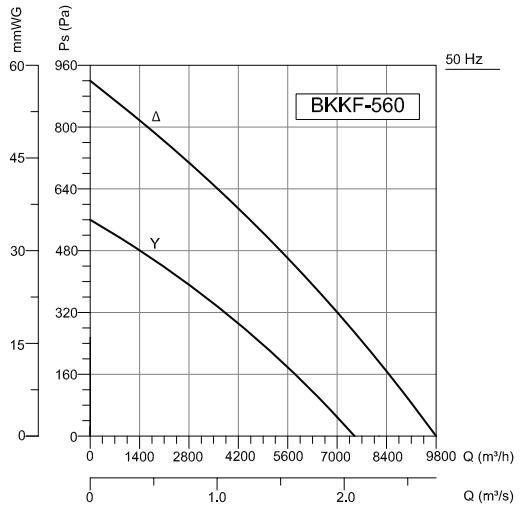
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	67	37	55	53	59	63	61	54	49	dB(A)
L_{wA} Outlet	68	38	56	55	60	64	62	56	51	dB(A)
L_{wA} Surrounding	52	18	43	44	43	48	46	38	33	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	72	42	57	58	64	66	67	61	54	dB(A)
L_{wA} Outlet	74	46	58	59	65	70	69	63	55	dB(A)
L_{wA} Surrounding	55	22	46	47	46	51	49	41	38	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	79	48	64	64	69	74	75	71	62	dB(A)
L_{wA} Outlet	81	49	65	66	71	76	76	73	64	dB(A)
L_{wA} Surrounding	59	24	50	50	51	54	50	45	39	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	78	65	68	71	73	72	69	65	58	dB(A)
L_{wA} Outlet	80	67	68	74	75	74	70	66	60	dB(A)
L_{wA} Surrounding	63	50	52	57	58	56	54	50	40	dB(A)

Accessories

BSC BSC-F BDEB BDH BDKS

BFG2 BFG3 BFG4 BFH13 BCTH