

BKEF

KITCHEN EXHAUST FANS / Backward Curved

Fan Components and Material Properties

The body with heat and sound insulation is manufactured from galvanized sheet metal. The fans of the Bkef 315-355-400 are made of high quality galvanized steel that is resistant to corrosion. The fans of the Bkef 450-500-560 models are made of aluminum sheet. Asynchronous motor is used in all models. The motor is out of airflow. The device is capable of carrying air at max.120°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

Since the motor is out of airflow, it is resistant to high temperature. The opening cover allows for effortless maintenance of the product. Water drainage feature. They work quietly thanks to isolation. Speed can be adjusted with speed control devices.

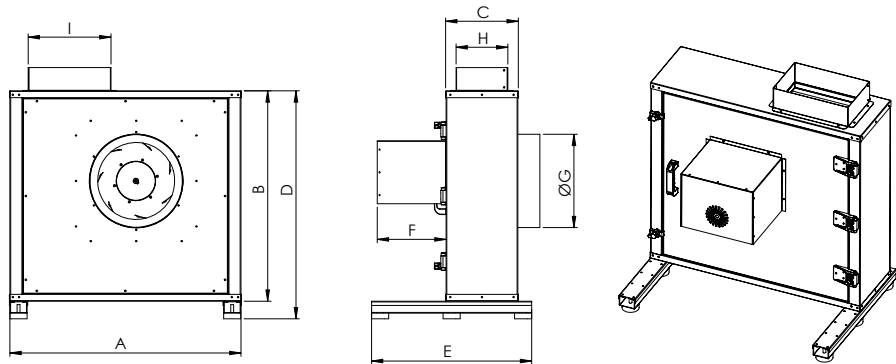
Speed Control

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

Usage Areas

They are used for smoke evacuation with grease trap filter in dense oily environments such as restaurant kitchens. 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	J
BKEF 315	650	605	220	665	480	245	250	160	230
BKEF 355	730	655	230	715	480	245	280	170	260
BKEF 400	815	740	255	800	580	245	330	185	295
BKEF 450	905	810	270	870	580	245	350	210	325
BKEF 500	1005	900	335	990	635	280	400	280	355
BKEF 560	1105	1000	365	1090	715	330	455	310	455

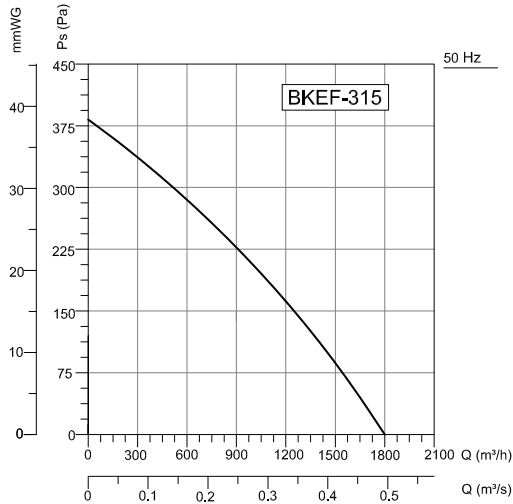
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	kW	(A)	(µF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BKEF 315M	230	50	0,25	2,1	10	1390	1800	37-29	F	55	51
BKEF 355M	230	50	0,25	2,1	10	1390	2800	41-33	F	55	63
BKEF 400M	230	50	0,37	3,4	15	1400	4000	42-34	F	55	78
BKEF 450M	230	50	0,55	4,5	20	1410	5200	45-37	F	55	87
BKEF 500M	230	50	1,1	7,5	35	1400	8000	49-42	F	55	120
BKEF 560M	230	50	2,2	14,2	50	1430	10000	52-44	F	55	145
BKEF 315T	380	50	0,25	0,87	-	1380	1800	37-29	F	55	51
BKEF 355T	380	50	0,25	0,87	-	1380	2800	41-33	F	55	63
BKEF 400T	380	50	0,37	1,2	-	1390	4000	42-34	F	55	78
BKEF 450T	380	50	0,55	1,6	-	1365	5200	45-37	F	55	87
BKEF 500T	380	50	1,1	2,6	-	1410	8000	49-42	F	55	120
BKEF 560T	380	50	2,2	4,9	-	1420	10000	52-44	F	55	145

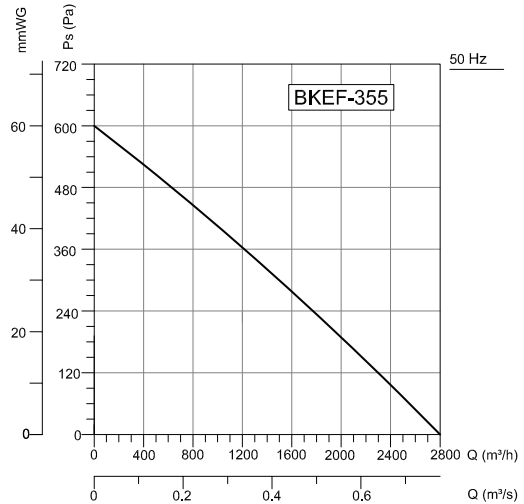
The sound level is measured at a distance of 4-10 m in open field condition.

Accessories

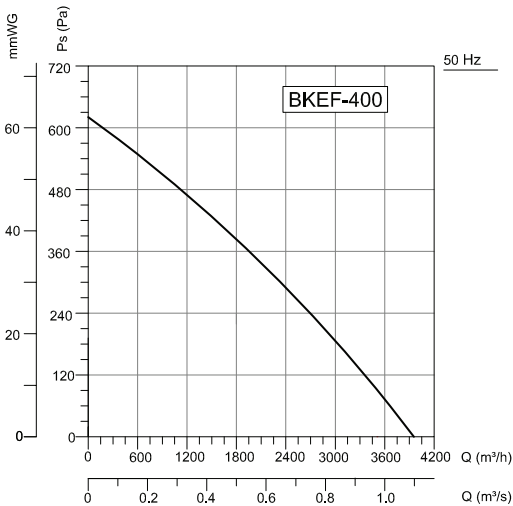




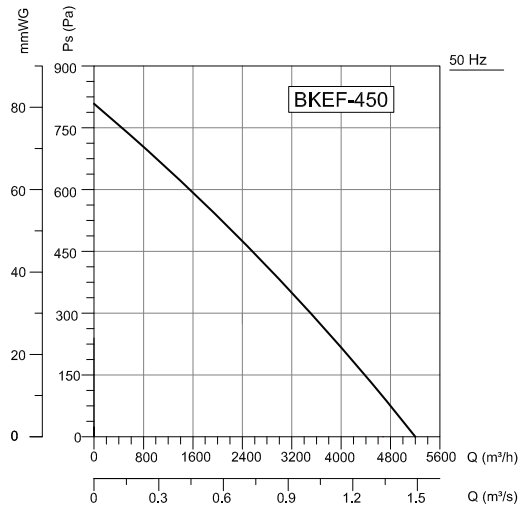
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	78	74	73	68	66	62	56	53	53	dB(A)
L _{WA} Outlet	80	76	75	70	67	64	58	55	55	dB(A)
L _{WA} Surrounding	60	56	55	50	48	44	38	35	35	dB(A)



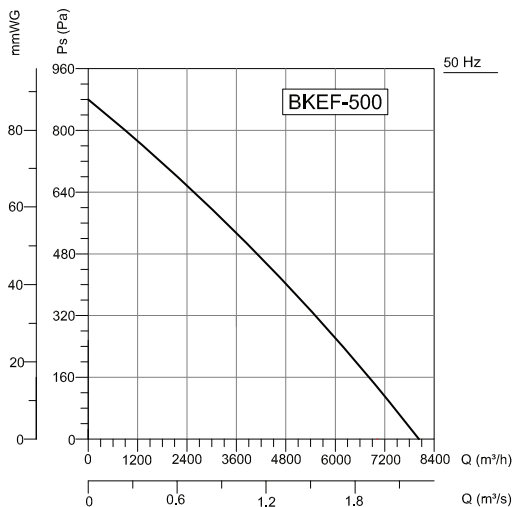
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	82	78	77	72	70	66	60	60	57	dB(A)
L _{WA} Outlet	84	80	79	74	72	68	62	62	59	dB(A)
L _{WA} Surrounding	64	60	59	54	52	48	42	42	39	dB(A)



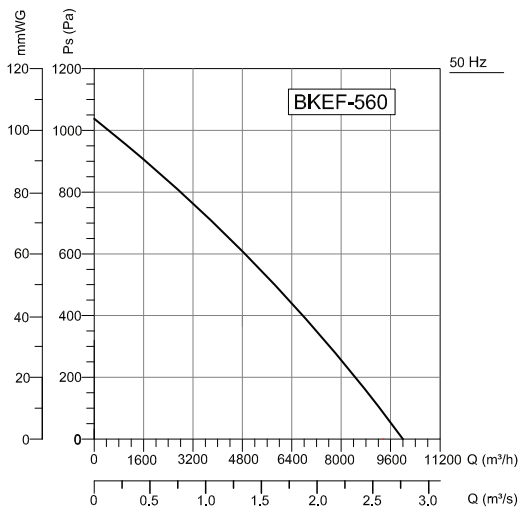
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	83	79	78	73	71	67	61	58	58	dB(A)
L _{WA} Outlet	85	81	80	75	73	69	63	60	60	dB(A)
L _{WA} Surrounding	65	61	60	55	53	49	43	40	40	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	86	82	81	76	74	70	64	61	61	dB(A)
L _{WA} Outlet	88	84	83	78	76	75	66	63	63	dB(A)
L _{WA} Surrounding	68	64	63	58	56	52	46	43	43	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	88	85	84	79	75	73	67	64	64	dB(A)
L _{WA} Outlet	91	87	86	81	79	78	69	66	66	dB(A)
L _{WA} Surrounding	71	67	66	61	59	55	49	46	46	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	91	88	87	82	78	76	70	67	67	dB(A)
L _{WA} Outlet	94	90	89	84	82	81	72	69	69	dB(A)
L _{WA} Surrounding	74	70	69	64	62	58	52	49	49	dB(A)