



BDKF

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The Fans are made of high quality galvanized steel which is resistant to corrosion. All models have an external rotor motor with a closed structure and have air transport at max.40°C.

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

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

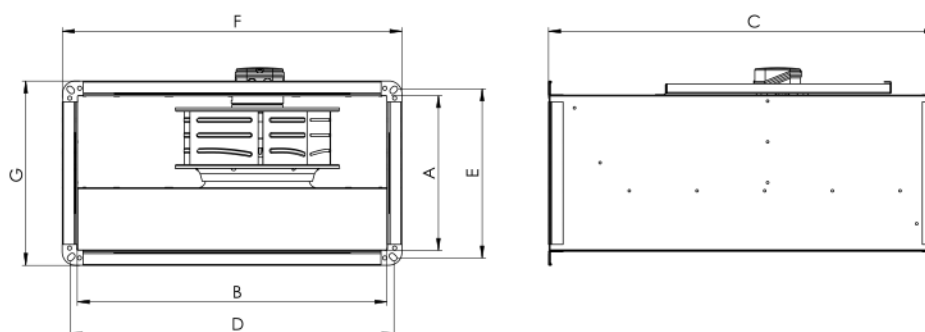
Optional control devices can be provided. Speed control can be done with linear voltage regulator in 1 ~ phase products (see BSC accessory).

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 rectangular duct systems where the application area is limited.

Technical Drawing and Tables

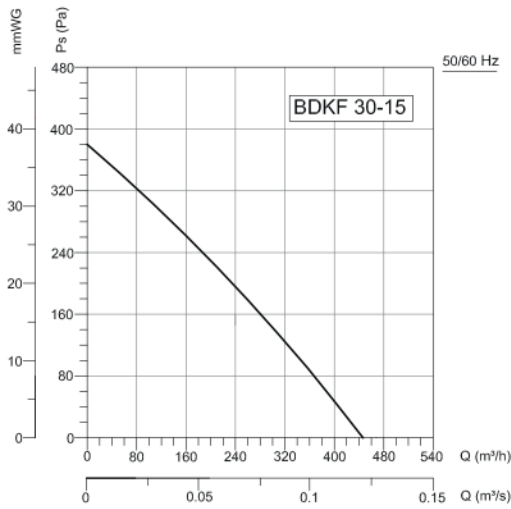


TYPE	A	B	C	D	E	F	G
BDKF 30-15	150	300	400	320	170	350	200
BDKF 40-20A	200	400	500	420	220	450	250
BDKF 40-20B	200	400	500	420	220	450	250
BDKF 50-25	250	500	565	520	270	550	300
BDKF 60-30	300	600	750	620	320	660	360
BDKF 60-35A	350	600	750	620	370	660	410
BDKF 60-35B	350	600	750	620	370	660	410
BDKF 70-40A	400	700	800	720	420	770	470
BDKF 70-40B	400	700	800	720	420	770	470
BDKF 80-50	500	800	920	820	520	870	570
BDKF 100-50	500	1000	1050	1030	530	1070	570

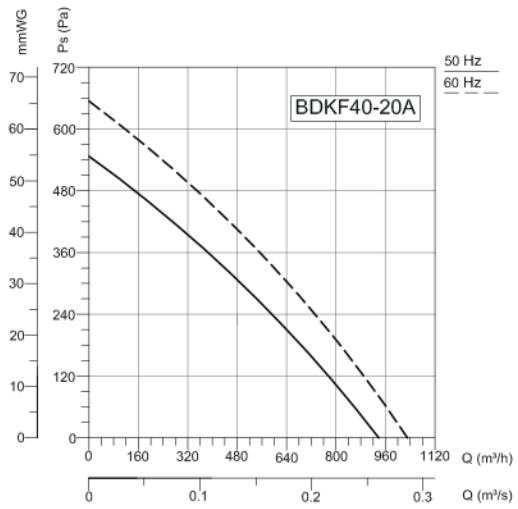
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	W	(A)	(µF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BDKF 30-15	230	50/60	75/95	0,37/0,47	2,5	2450	450	43	B	44	7
BDKF 40-20A	230	50/60	100/135	0,49/0,68	4	2650/2870	950/1030	48	B	44	10,5
BDKF 40-20B	230	50/60	130/180	0,64/0,9	5	2650	1150	54	B	44	11
BDKF 50-25	230	50/60	180/240	0,82/1,17	6	2600/2750	1610/1700	58	B	44	15
BDKF 60-30	230	50/60	130/155	0,71	3	1400/1650	1850/2180	50	F	44	29
BDKF 60-35A	230	50/60	130/155	0,7	3	1425/1650	2500/2895	53	F	44	31
BDKF 60-35B	230	50/60	200/270	1/1,4	8	1400/1680	3300/3900	58	F	44	32
BDKF 70-40A	230	50/60	310/440	1,55/2,2	10	1350/1550	4000/4600	56	F	44	44
BDKF 70-40B	230	50/60	500/775	2,5/3,7	10	1350/1450	5400/5800	58	F	44	46
BDKF 80-50	400 Δ	50	1150	2,25	-	1400	7550	64	F	54	66
BDKF 100-50	400Δ	50	1900	3,4	-	1300	9600	66	F	54	84

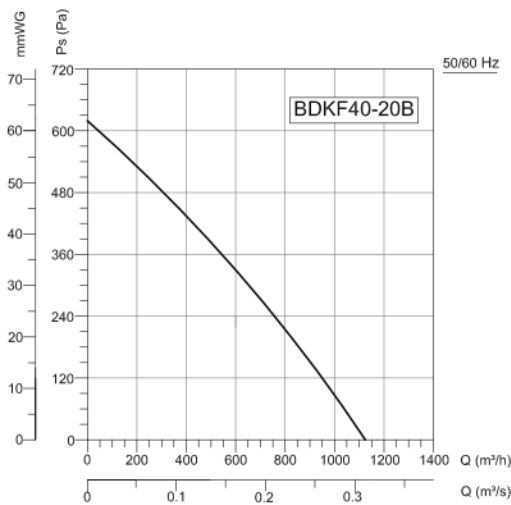
Sound Level Measured from 3m distance in room condition.



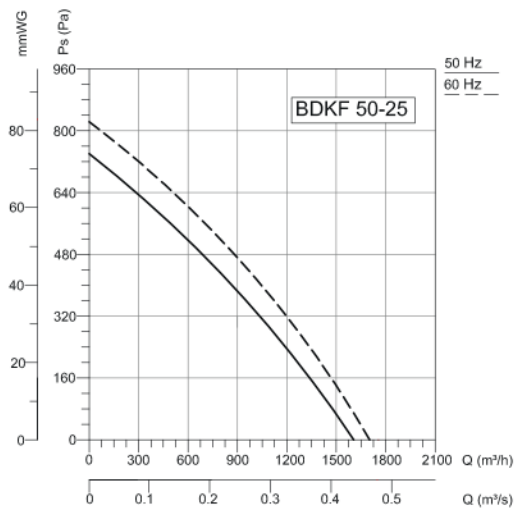
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	66	44	56	64	56	55	53	47	38	dB(A)
L_{wA} Outlet	69	48	53	66	63	61	58	51	43	dB(A)
L_{wA} Surrounding	50	26	33	47	44	42	41	35	27	dB(A)



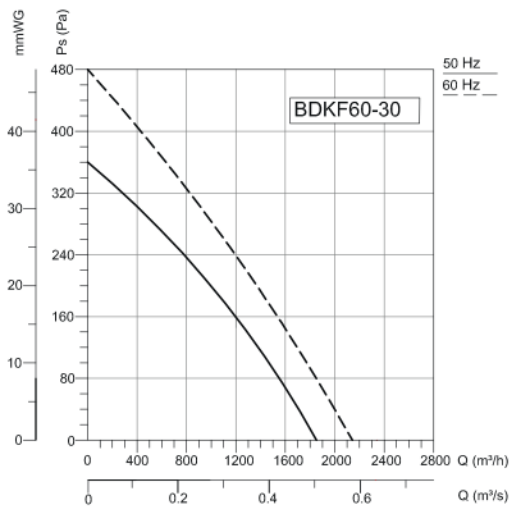
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	69	44	54	66	58	61	59	55	47	dB(A)
L_{wA} Outlet	72	44	53	67	64	63	66	61	58	dB(A)
L_{wA} Surrounding	55	20	34	53	45	44	44	38	35	dB(A)



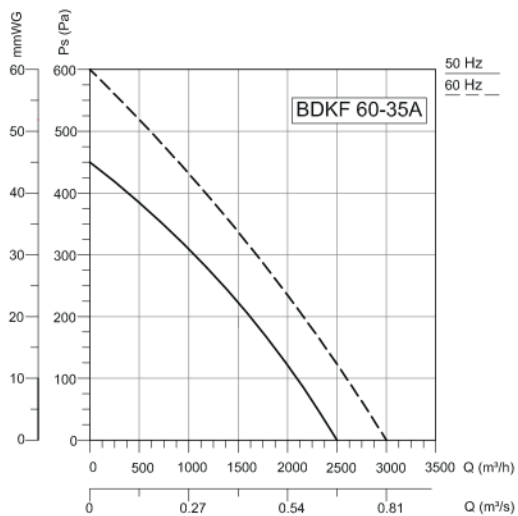
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	69	63	67	65	63	60	dB(A)
L_{wA} Outlet	78	51	61	70	69	70	73	67	69	dB(A)
L_{wA} Surrounding	61	31	35	55	54	54	55	47	45	dB(A)



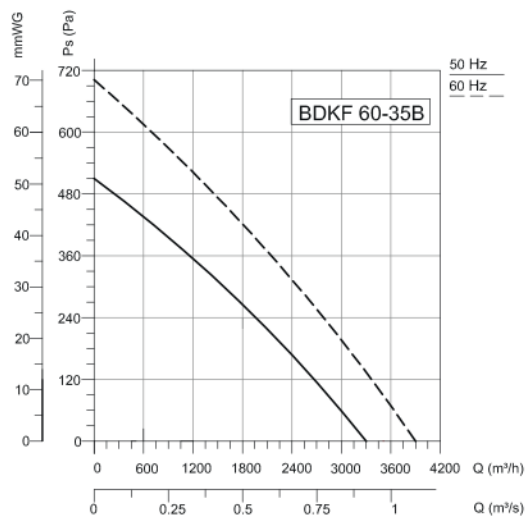
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{wA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{wA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



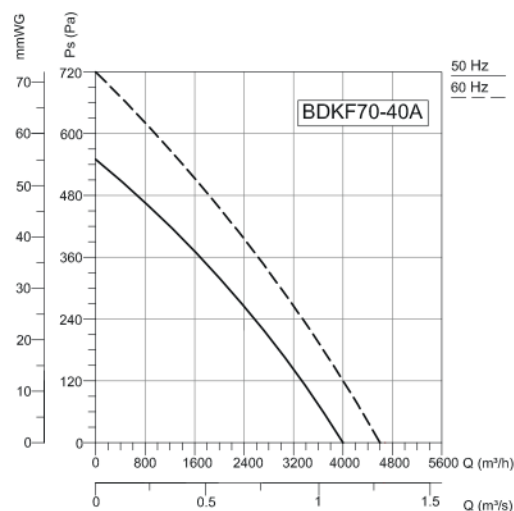
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	69	50	62	64	61	62	57	52	44	dB(A)
L_{wA} Outlet	72	49	60	65	68	65	63	58	46	dB(A)
L_{wA} Surrounding	57	35	47	54	52	47	44	39	32	dB(A)



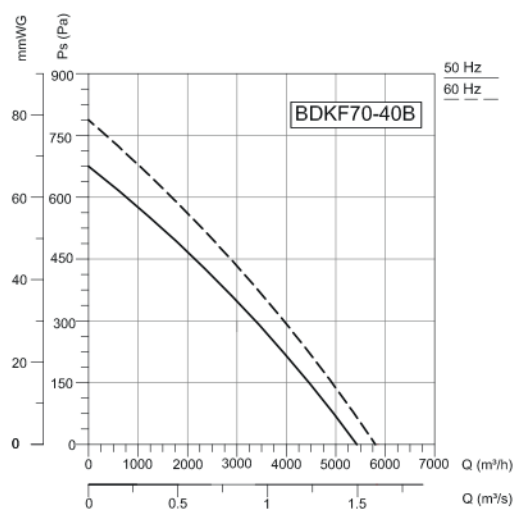
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{wA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{wA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



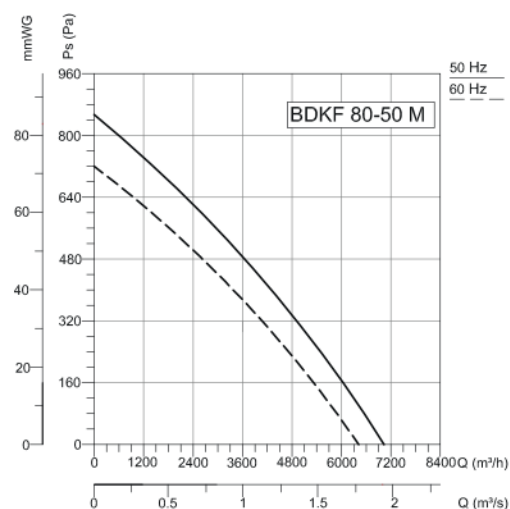
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	66	68	66	65	62	53	dB(A)
L_{WA} Outlet	80	60	71	72	74	73	71	67	58	dB(A)
L_{WA} Surrounding	65	41	63	59	54	53	48	41	35	dB(A)



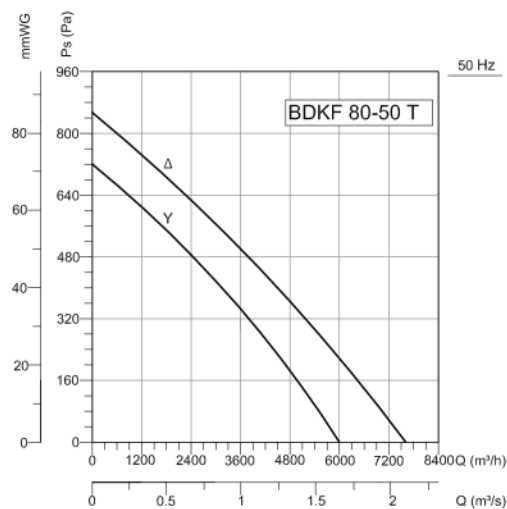
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L_{WA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L_{WA} Surrounding	63	40	60	57	52	51	46	38	35	dB(A)



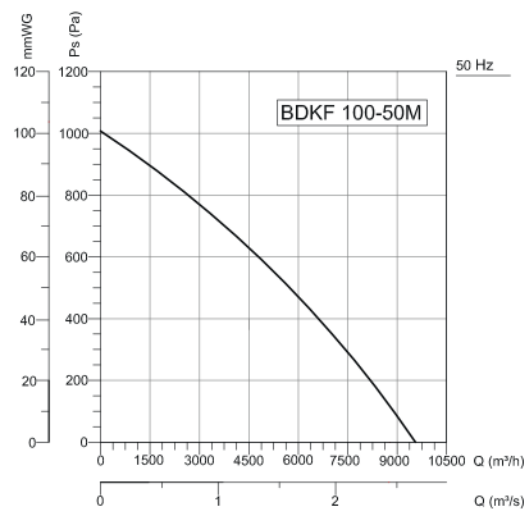
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	68	69	66	66	62	52	dB(A)
L_{WA} Outlet	79	60	71	71	73	74	71	38	55	dB(A)
L_{WA} Surrounding	65	41	62	58	56	56	49	42	36	dB(A)



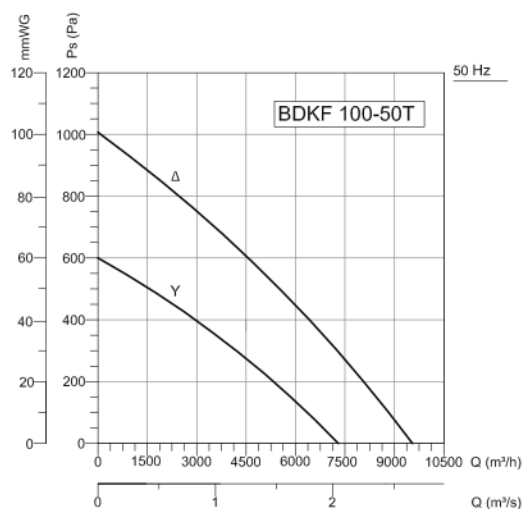
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	79	61	72	71	73	71	71	66	58	dB(A)
L_{WA} Outlet	84	66	75	76	77	79	75	70	61	dB(A)
L_{WA} Surrounding	71	45	68	64	61	61	60	54	43	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	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	72	58	69	64	62	60	56	52	50	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	72	58	69	64	62	60	56	52	50	dB(A)

Accessories



BSC



BSC-F



BDEB



BDH



BDKS



BFG2



BFG3



BFG4



BFH13



BCTH

