

BRF

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

The mounting plate and fan cap of the BRF series horizontal discharge centrifugal fans are made of electrostatic powder coated sheet metal. The fan are made of high quality galvanized sheet steel which is resistant to corrosion. 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

Lightweight and compact housing for easy installation. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices.

Speed Control

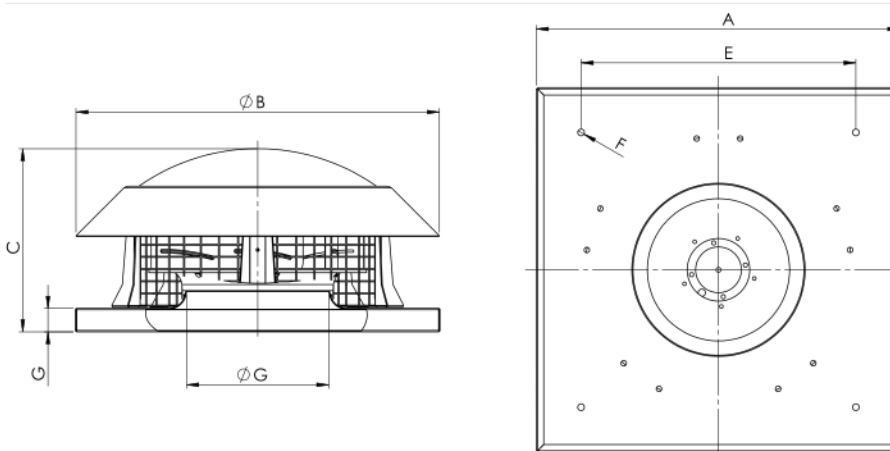
Optional control devices can be provided. Speed control can be done with linear voltage regulator in 1 ~ phase products (see BSC accessory).

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

Usage Areas

In order to improve the indoor air quality, BRF roof fans operate at low noise level with an external rotor motor. It is used on the roofs of the places where the air is to be refreshed and the chimneys on the roofs of the bathrooms and wc's which are opened to the common shaft of the buildings.

Technical Drawing and Tables

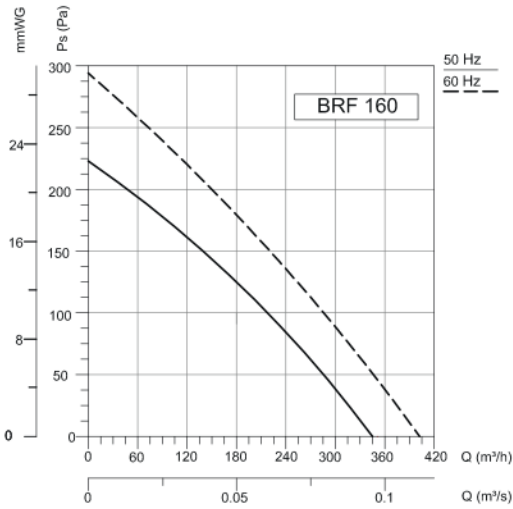


TYPE	A	B	C	D	E	F	G
BRF 160	252	260	140	25	210	6	99
BRF 180	252	260	140	25	210	6	99
BRF 225	336	386	212	35	274	11	144
BRF 250	370	386	225	35	290	11	162
BRF 315	454	443	293	40	333	11	198
BRF 355	595	595	285	40	450	11	234
BRF 400	595	685	355	40	450	12	268
BRF 450	664	685	400	40	450	12	303
BRF 500	798	824	385	40	600	12	342
BRF 560	798	824	400	40	600	12	380

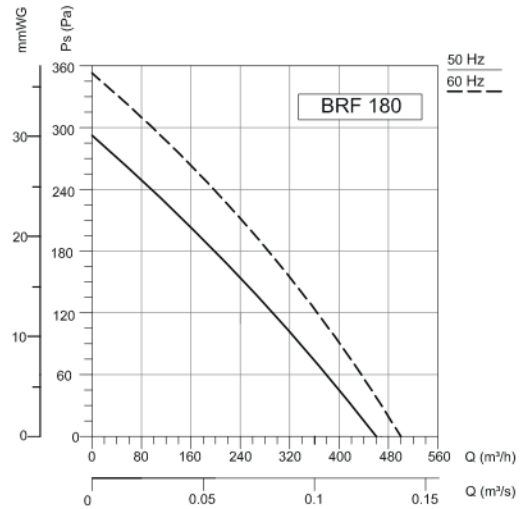
Dimensions are in (mm)

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
BRF 160	230	50/60	60	0,3	2	2600/3000	346/400	44-36	B	44	3,5
BRF 180	230	50/60	70/90	0,35/0,43	2,5	2500/2750	460/500	49-41	B	44	3,7
BRF 225	230	50/60	80/100	0,40/0,50	3	2750/3100	902/1020	50-42	B	44	7
BRF 250	230	50/60	125/175	0,61/0,91	6	2800/3180	1212/1375	52-44	B	44	8
BRF 315	230	50/60	130/155	0,72	3	1425/1650	2000/2315	47-39	F	44	12,8
BRF 355	230	50/60	200/245	1,05	6	1400/1680	2900/3500	46-38	F	44	18
BRF 400	230	50/60	310/460	1,56/2,27	10	1380/1560	4100/4600	51-43	F	44	22
BRF 450	230	50/60	430/655	2,2/3,2	10	1370/1525	5400/6000	52-44	F	44	28
BRF 500	400 Δ	50	880	2,1	-	1400	7550	54-46	F	54	45,5
BRF 560	400 Δ	50	1350	2,6	-	1400	9600	66-58	F	54	48

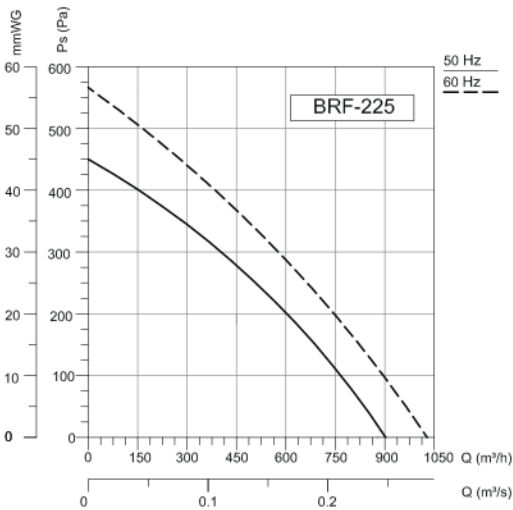
The sound level is measured at a distance of 4-10 m in open field condition.



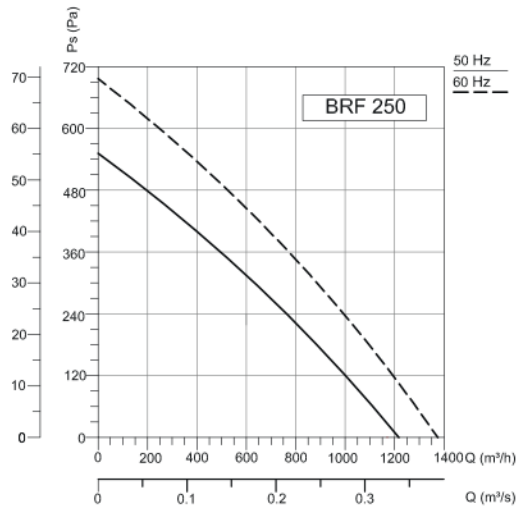
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	66	37	55	59	61	60	57	52	45	dB(A)
L_{wA} Surrounding	67	38	56	60	62	61	58	53	46	dB(A)



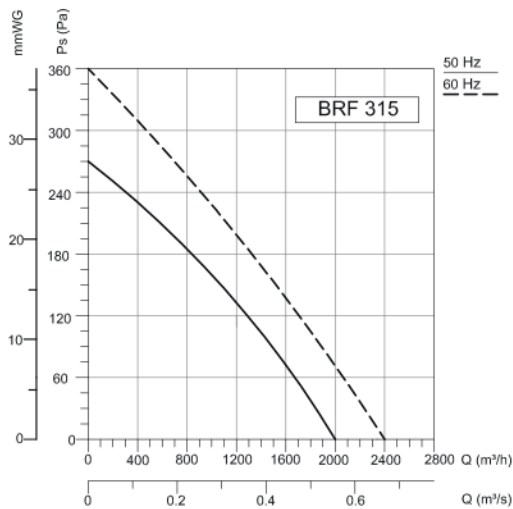
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	41	59	63	65	64	61	56	49	dB(A)
L_{wA} Surrounding	71	42	60	64	66	65	62	57	50	dB(A)



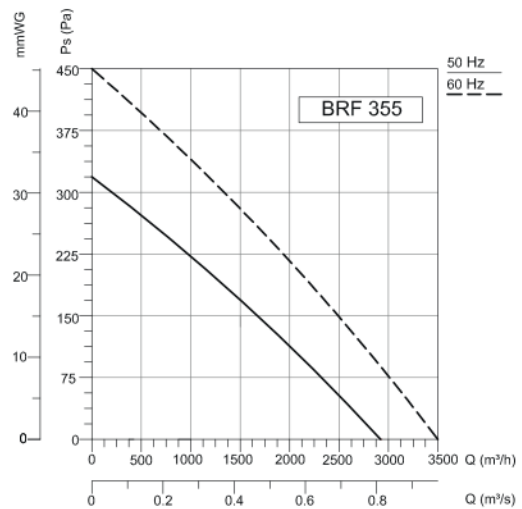
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	72	43	61	65	67	66	63	58	51	dB(A)
L_{wA} Surrounding	73	44	60	66	68	67	64	59	52	dB(A)



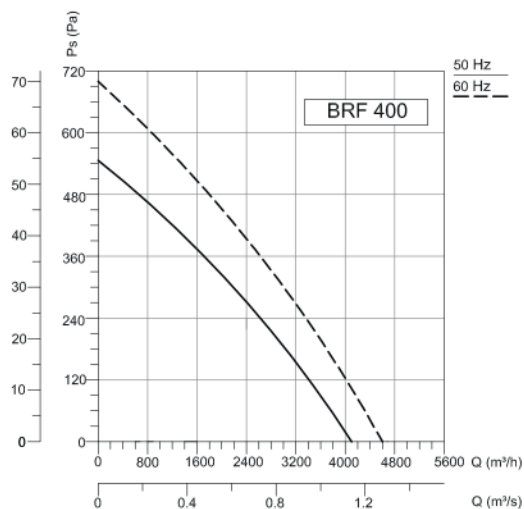
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L_{wA} Surrounding	75	46	62	68	70	69	66	61	54	dB(A)



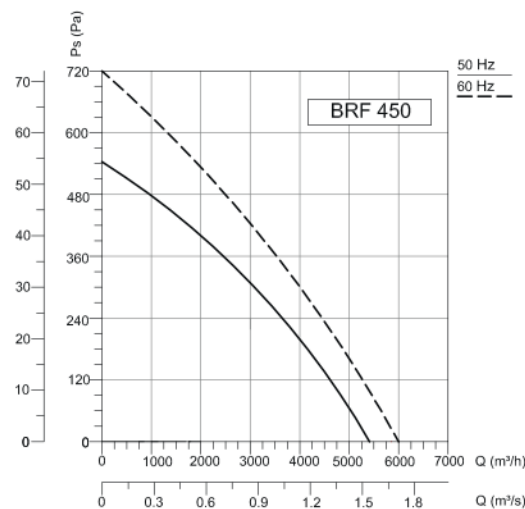
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L_{wA} Surrounding	70	57	59	63	65	64	61	56	49	dB(A)



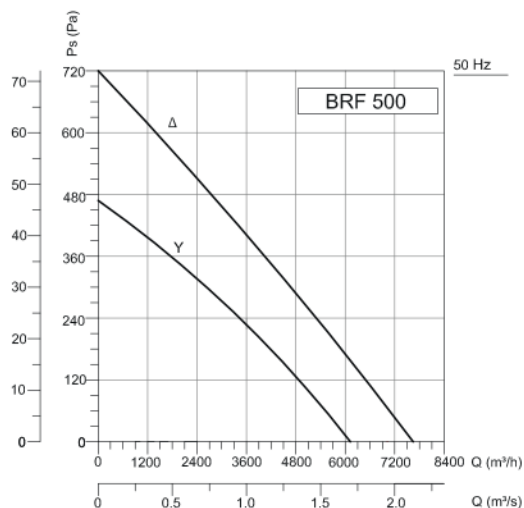
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	67	54	56	60	62	61	58	53	46	dB(A)
L_{wA} Surrounding	69	56	58	62	64	63	60	55	48	dB(A)



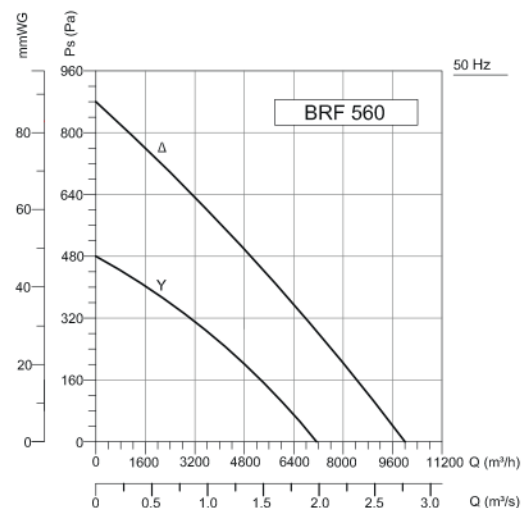
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	75	43	62	70	65	71	58	54	51	dB(A)
L_{wA} Surrounding	74	47	67	66	70	68	61	56	52	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	43	58	65	64	61	59	54	55	dB(A)
L_{wA} Surrounding	75	45	64	66	70	69	64	59	57	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	75	48	62	72	70	66	63	58	56	dB(A)
L_{wA} Surrounding	77	46	64	68	73	70	68	61	57	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	85	58	74	78	80	79	75	70	63	dB(A)
L_{wA} Surrounding	87	58	75	79	81	82	78	72	65	dB(A)

Accessories



BSC



BSC-F



BYF



BYKS



BYH