

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 wheels of the models BRF 160-400 are made of high quality galvanized sheet steel which is resistant to corrosion. The fan wheels of the BRF 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

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

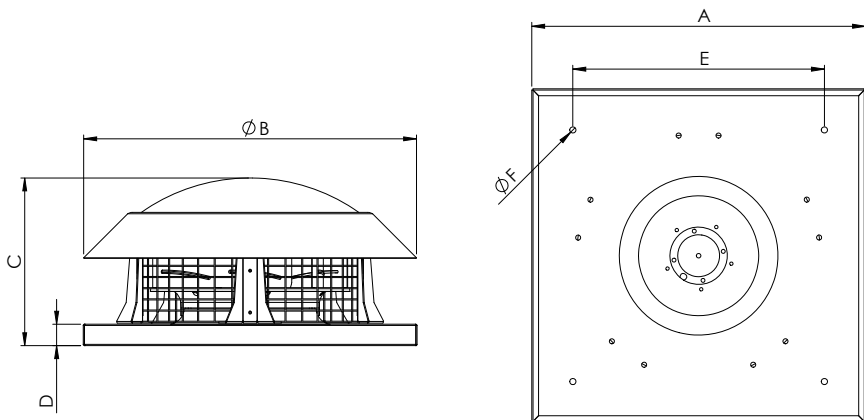
Speed Control

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

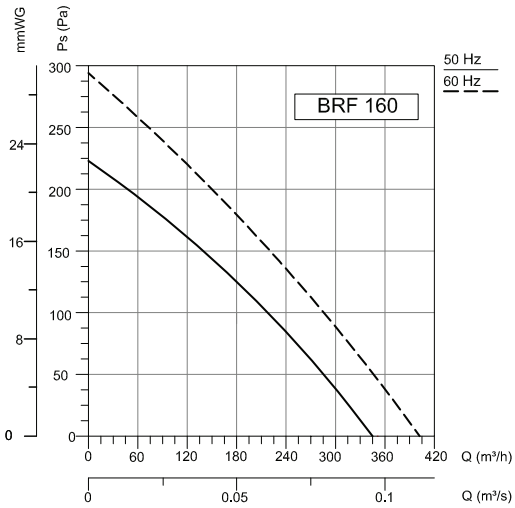


TYPE	A	B	C	D	E	F
BRF 160	252	260	140	25	210	6
BRF 180	252	260	140	25	210	6
BRF 225	336	386	212	35	274	11
BRF 250	370	386	225	35	290	11
BRF 315	454	443	293	40	333	11
BRF 355	595	595	285	40	450	11
BRF 400	595	685	355	40	450	12
BRF 450	664	685	400	40	450	12
BRF 500	798	824	385	40	600	12
BRF 560	798	824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

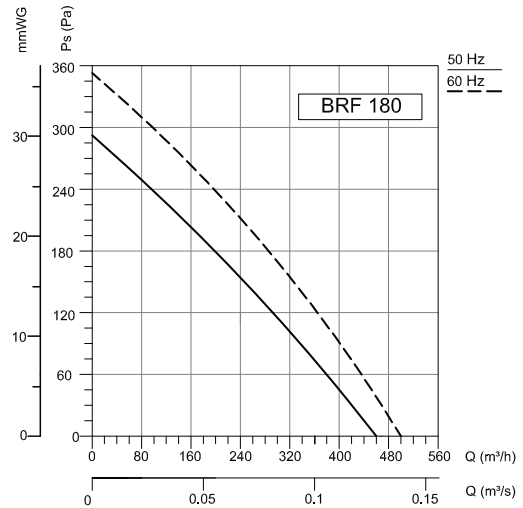
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	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	130/150	0,8	6	1450/1740	2000/2400	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	380 Δ/Y	50	840/580	1,95/1,12	-	1360/1100	7600/6150	54-46	F	44	45,5
BRF 560	380 Δ/Y	50	1440/840	2,8/1,6	-	1300/950	9800/7150	66-58	F	44	48

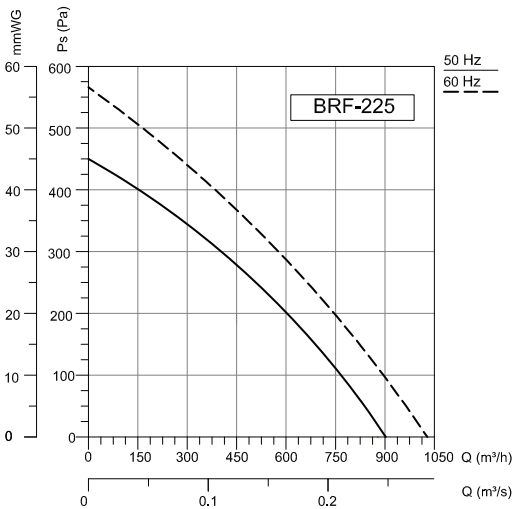
The sound level is measured at a distance of 4-10 m in open field condition.



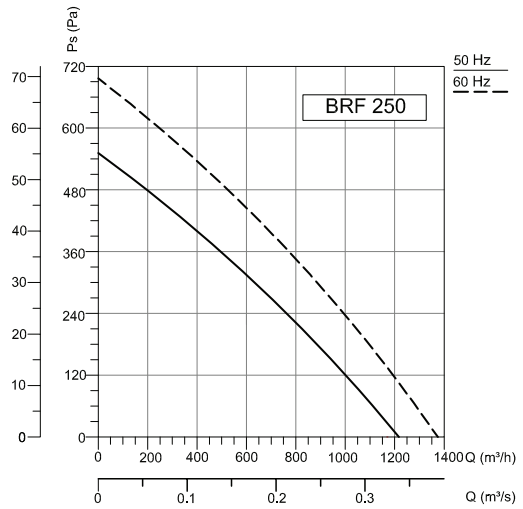
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	66	37	55	59	61	60	57	52	45	dB(A)
L _{WA} Surrounding	67	38	56	60	62	61	58	53	46	dB(A)



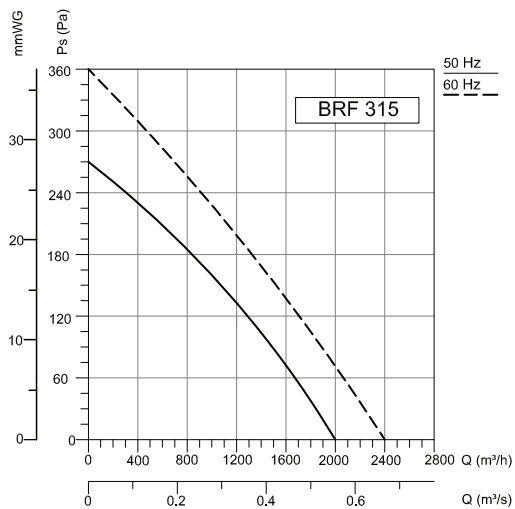
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	41	59	63	65	64	61	56	49	dB(A)
L _{WA} Surrounding	71	42	60	64	66	65	62	57	50	dB(A)



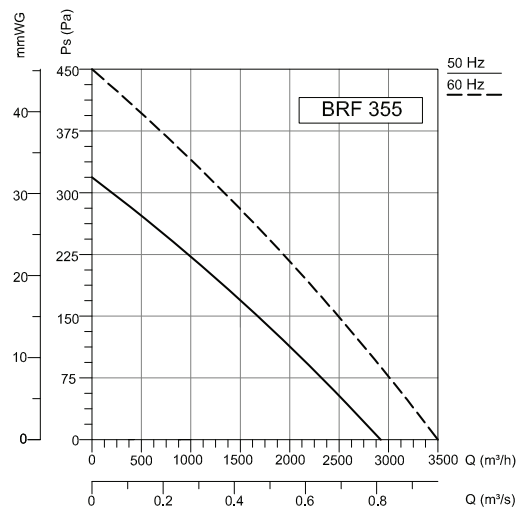
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	72	43	61	65	67	66	63	58	51	dB(A)
L _{WA} Surrounding	73	44	60	66	68	67	64	59	52	dB(A)



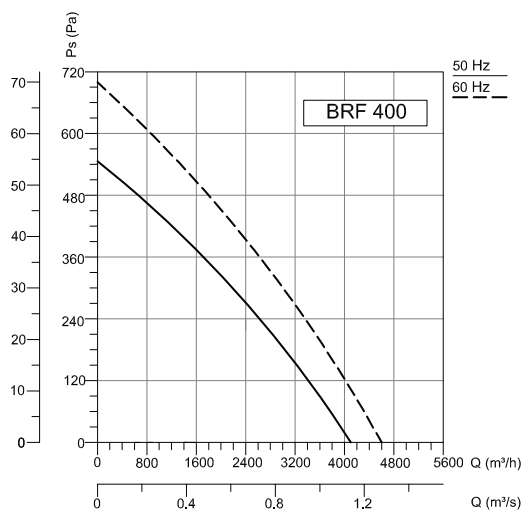
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L _{WA} Surrounding	75	46	62	68	70	69	66	61	54	dB(A)



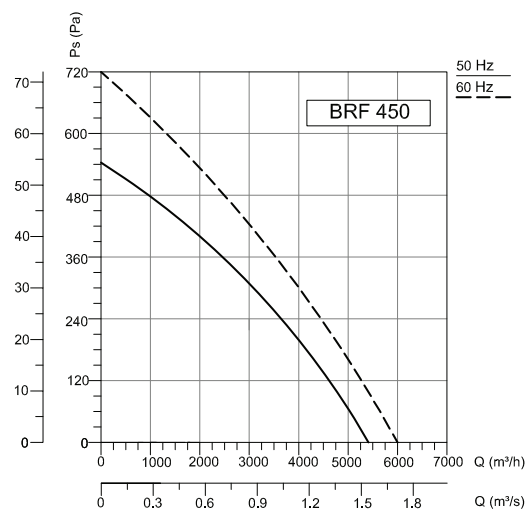
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L _{WA} Surrounding	70	57	59	63	65	64	61	56	49	dB(A)



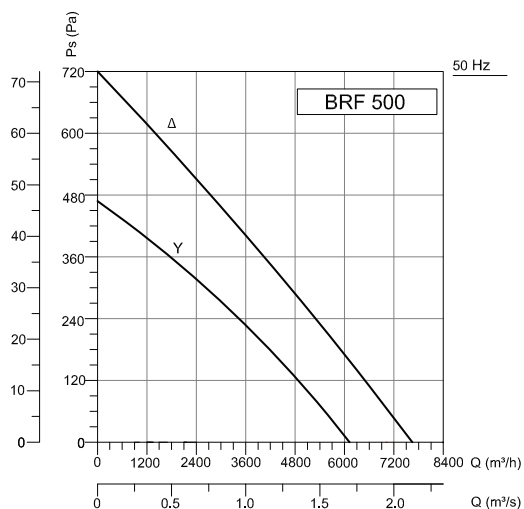
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	67	54	56	60	62	61	58	53	46	dB(A)
L _{WA} Surrounding	69	56	58	62	64	63	60	55	48	dB(A)



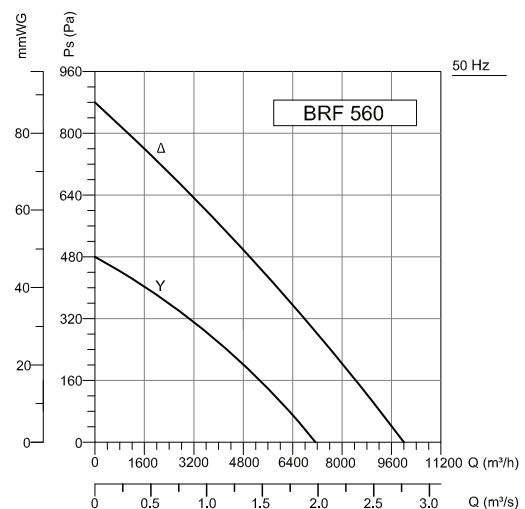
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	37	59	61	50	62	04	03	02	dB(A)
L_{WA} Surrounding	74	36	56	55	61	54	52	05	09	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	37	04	50	53	52	08	03	00	dB(A)
L_{WA} Surrounding	75	30	53	55	61	58	53	08	06	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	34	59	69	61	55	57	04	05	dB(A)
L_{WA} Surrounding	77	35	53	54	67	61	54	52	06	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	85	04	63	64	41	68	60	61	57	dB(A)
L_{WA} Surrounding	87	04	60	68	42	49	64	69	50	dB(A)

Accessories



BSC



BSC-F



BYF



BYKS



BYH