



BRCF-EX PROOF

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

BRCF series vertical flush roof centrifugal fans Body, mounting plate and Fan impellers made of galvanized sheet steel models BRCF 630-800 made of electrostatic powder coated sheet steel The suction funnel is brass plated. Asynchronous ex-proof motor is used in all models. The motor is out of airflow.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently aligned fins with the insertion technique, while the fan wheels of the models BRCF 630-800 are manufactured from the necessity of high strength. Direct drive, backward curved and sparse blad.

Benefits

BRCF roof fans provide a great advantage in applications with vertical shot feature, especially in conditions where horizontal air is not absorbed. Thanks to the aerodynamic wing structure, they

work quietly. Speed can be adjusted with speed control devices. Since the motor is out of airflow, it is resistant to high temperature. Due to its high temperature resistance, the hot oil vapor absorbed from the hoods ensures a long distance to the vertical. The motor's ex-proof feature ensures safe exhaustion of air in hazardous environments due to the fact that the aluminum and copper parts in the housing prevent electrostatic precipitation.

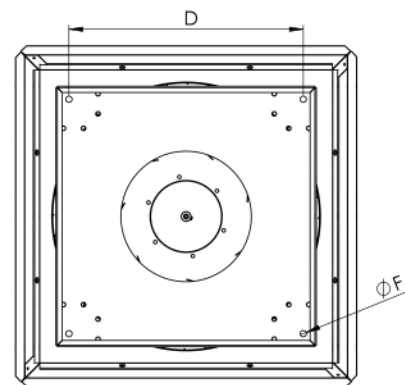
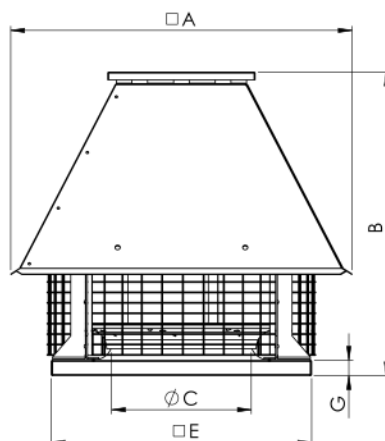
Speed Control

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

Usage Areas

Ex-proof fans or ex-proof fans are one of the preferred fan types for the ventilation of high-risk environments. It is designed to be non-sparking. Usage areas are determined according to the degree of ATEX directive.

Technical Drawing and Tables



TYPE	A	B	C	D	E	F	G
BRCF-EX 280T	522	495	165	354	404	10	30
BRCF-EX 315T	595	555	198	404	454	10	30
BRCF-EX 355T	656	555	234	450	500	10	30
BRCF-EX 400T	656	585	268	450	500	12	30
BRCF-EX 450T	656	616	303	530	580	12	44
BRCF-EX 500T	766	660	342	590	640	12	44
BRCF-EX 560T	828	723	380	650	700	12	44
BRCF-EX 630T	997	922	445	660	730	12	54
BRCF-EX 710T	1095	991	500	710	780	12	54
BRCF-EX 800T	1205	1172	542	850	900	12	54

Dimensions are in (mm)

Accessories



BSC-F



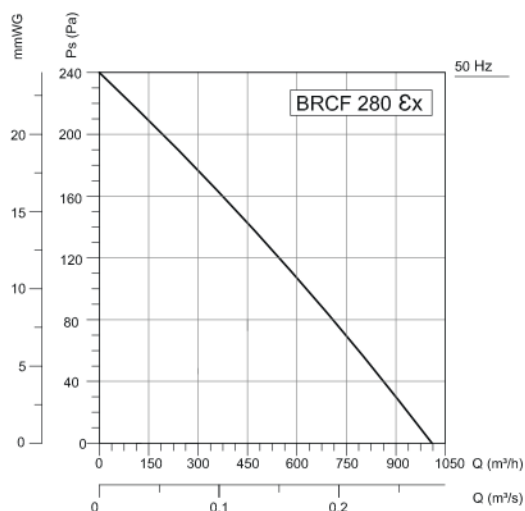
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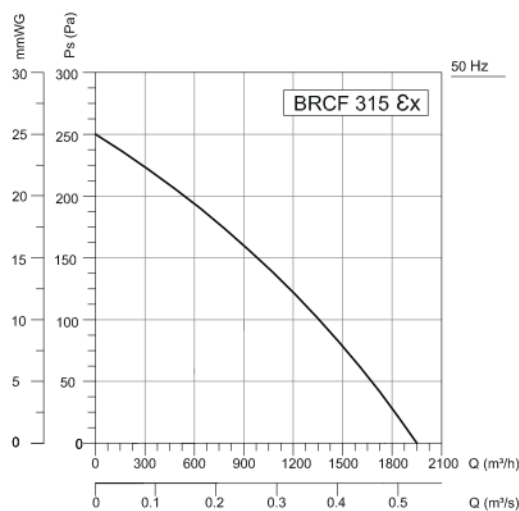
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TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	kW	(A)	r.p.m	m ³ /h	dB(A)	Ins.cl.	IP	kg
BRCF-EX 280T	380	50	0,25	0,87	1380	1000	53-45	F	55	35
BRCF-EX 315T	380	50	0,25	0,87	1380	1950	53-45	F	55	42
BRCF-EX 355T	380	50	0,25	0,87	1380	2900	55-47	F	55	50
BRCF-EX 400T	380	50	0,37	1,2	1390	4000	60-52	F	55	55
BRCF-EX 450T	380	50	0,55	1,6	1365	5550	62-54	F	55	62
BRCF-EX 500T	380	50	1,1	2,6	1410	8300	64-56	F	55	68
BRCF-EX 560T	380	50	2,2	4,9	1420	10800	66-58	F	55	75
BRCF-EX 630T	380	50	3	6,6	1425	11200	60-52	F	55	127
BRCF-EX 710T	380	50	4	8,4	1440	12800	63-55	F	55	150
BRCF-EX 800T	380	50	7,5	15,4	1465	16000	67-59	F	55	216

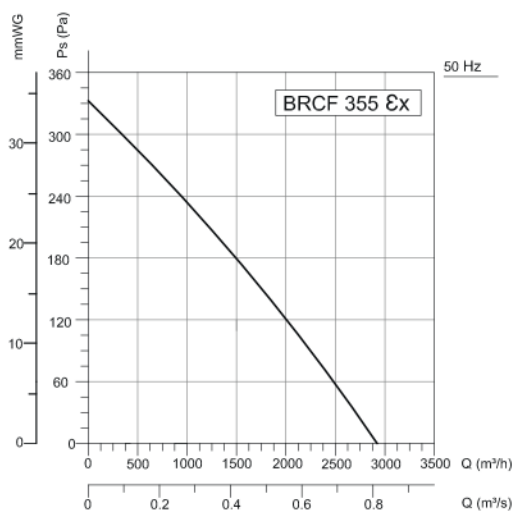
Sound Level Measured from 3m distance in room condition.



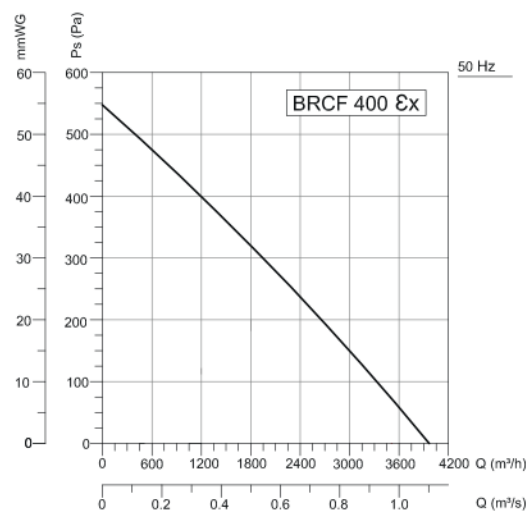
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L _{WA} Surrounding	76	47	65	69	71	70	67	62	55	dB(A)



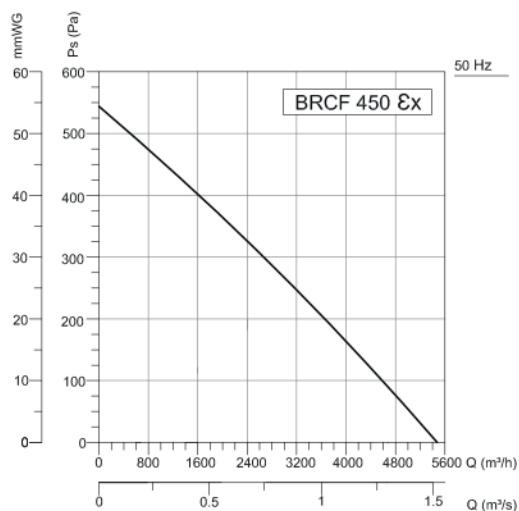
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	46	63	68	69	68	64	59	55	dB(A)
L _{WA} Surrounding	76	45	66	70	70	71	67	63	55	dB(A)



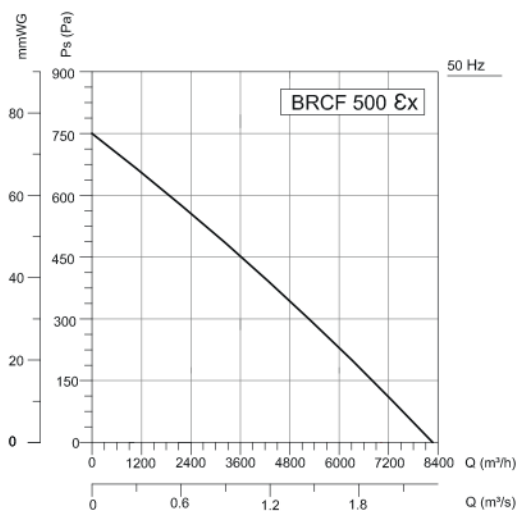
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	47	65	69	71	70	67	62	55	dB(A)
L _{WA} Surrounding	78	49	67	69	73	72	69	64	57	dB(A)



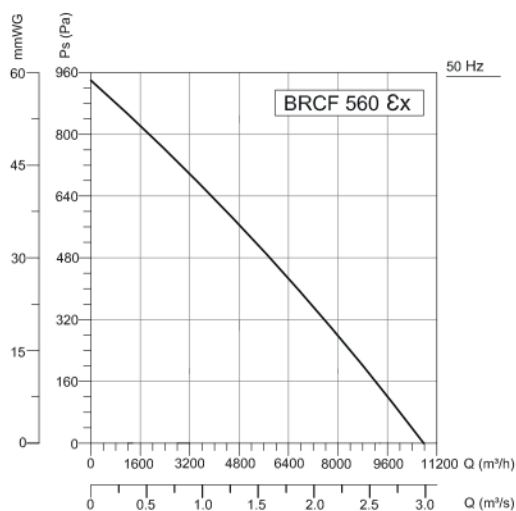
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	81	68	69	74	76	75	72	68	60	dB(A)
L _{WA} Surrounding	83	70	72	76	78	77	74	69	62	dB(A)



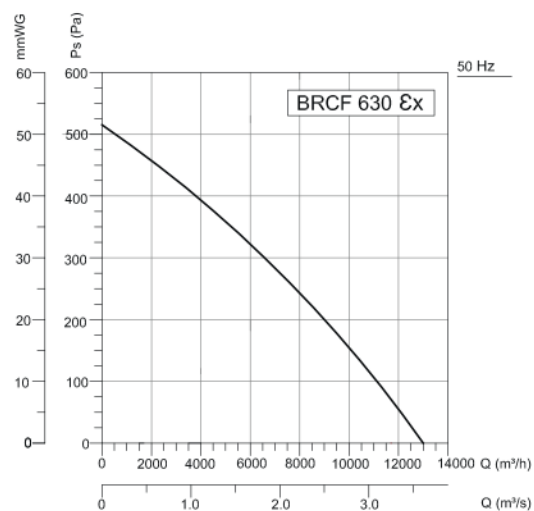
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	82	69	73	75	77	76	73	68	63	dB(A)
L_{wA} Surrounding	85	73	73	77	79	78	75	70	73	dB(A)



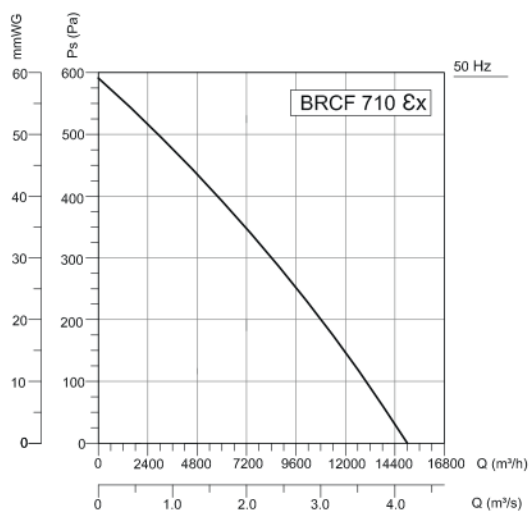
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	82	67	69	73	75	74	71	76	59	dB(A)
L_{wA} Surrounding	87	74	76	81	82	81	78	73	66	dB(A)



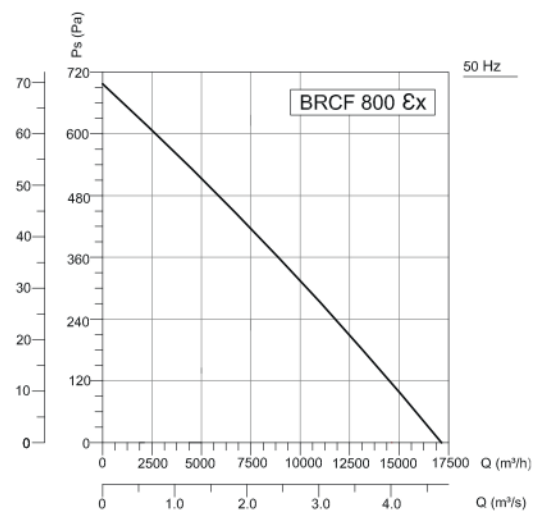
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	87	74	76	80	82	81	78	73	66	dB(A)
L_{wA} Surrounding	89	76	78	82	84	83	80	75	68	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	80	67	70	73	75	74	71	66	60	dB(A)
L_{wA} Surrounding	83	69	72	75	78	76	73	68	57	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	83	70	73	76	78	77	74	69	63	dB(A)
L_{wA} Surrounding	86	72	75	78	81	79	76	71	60	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	88	75	77	81	83	82	79	74	67	dB(A)
L_{wA} Surrounding	90	77	79	83	85	84	81	76	69	dB(A)