

GENERAL INFORMATIONS

BVN GLOBAL

We invite you to the world of Ventilation and Air Conditioning;
We offer the most efficient fan and Control systems to make your living spaces more reliable and comfortable.



From 1992 until today, BVN has been manufacturing electric motors and fans for various applications. Istanbul based production area of 30.000 m2, 400 experienced employees and has structuring in 72 countries with Global Brand Of Turkey! www.bvnair.com



We are registering our High Quality With Our Promises And Also Documents!

BVN certificated its quality with ISO 9001, ISO 14001, ISO 18001. BVN Products Follows International Standards Such as ISO and AMCA, also develops the most modern laboratory equipments and improve with the advanced technology softwares.



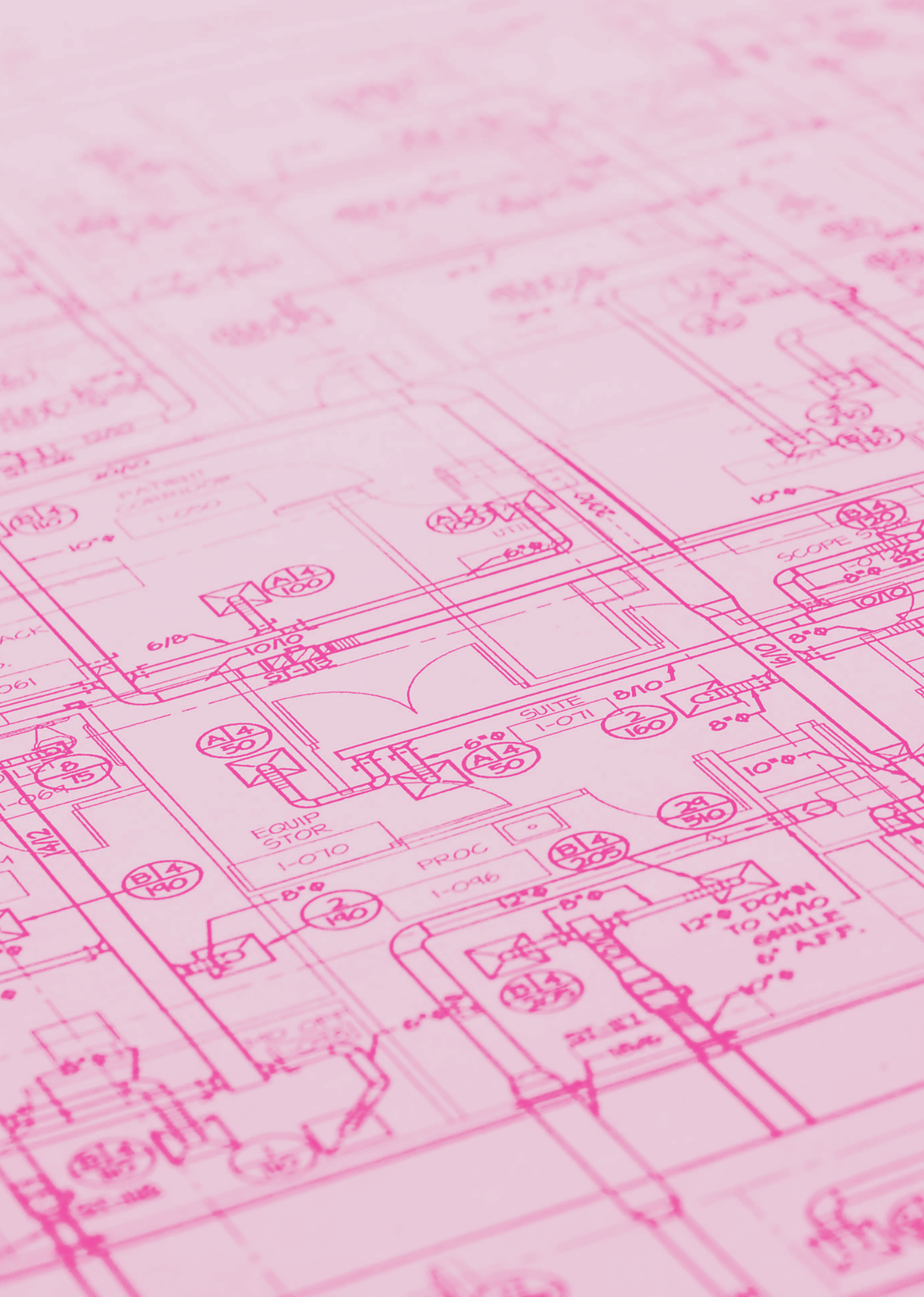
*TSE, CE Mark, UKR SEPRO, PCT GOST, ROHS Requirements are the standards of BVN Products.

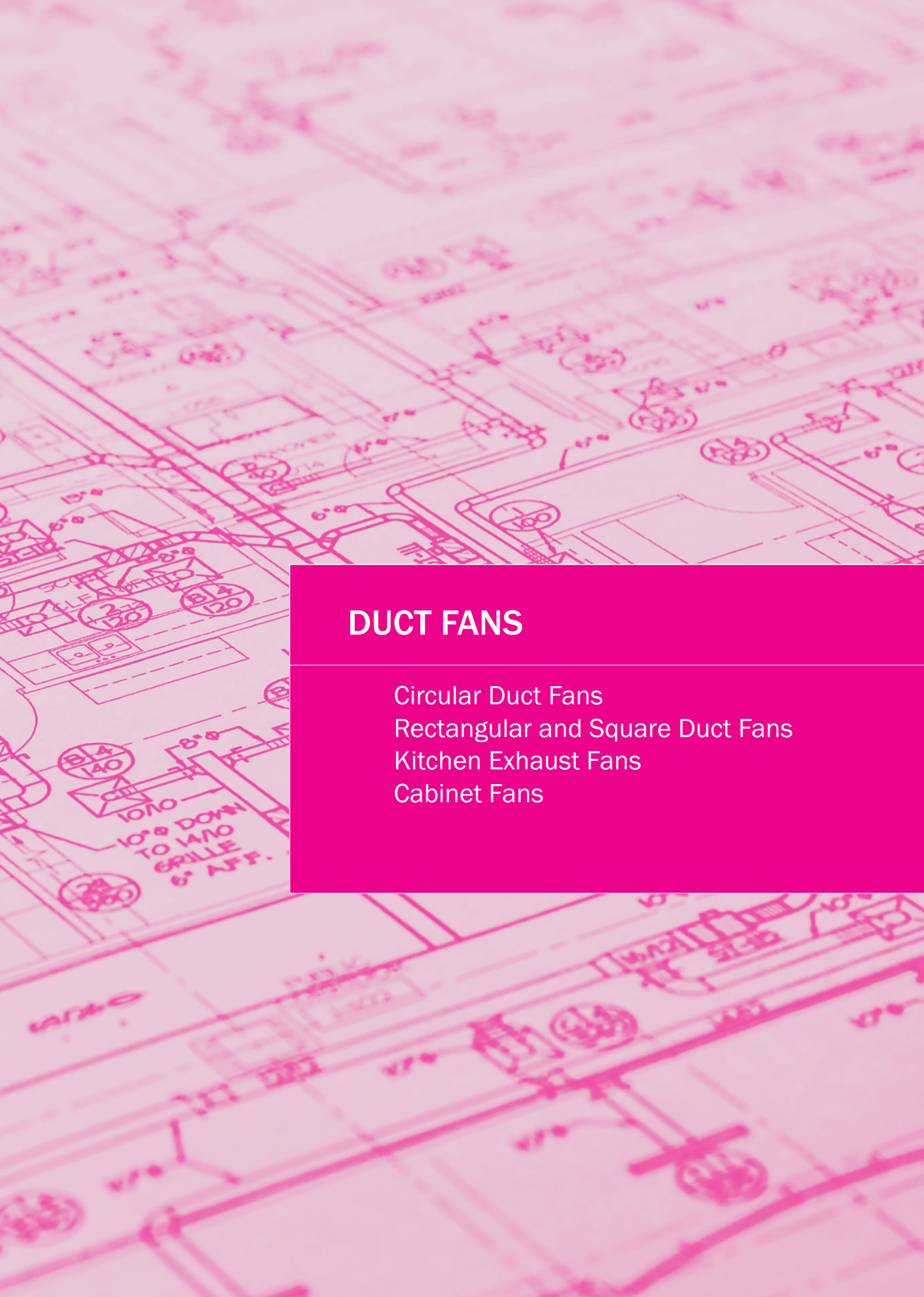
Our Smoke Exhaust Fans has the Fire Endurance certificates F300/H2 and F400/H2 taken from International Test Laboratories.

Before Packaging For the Each Product We deliver, We test our products performance and safety for you to use with peace.

Our Exproof Fans has the Atex Certificate.







DUCT FANS

Circular Duct Fans

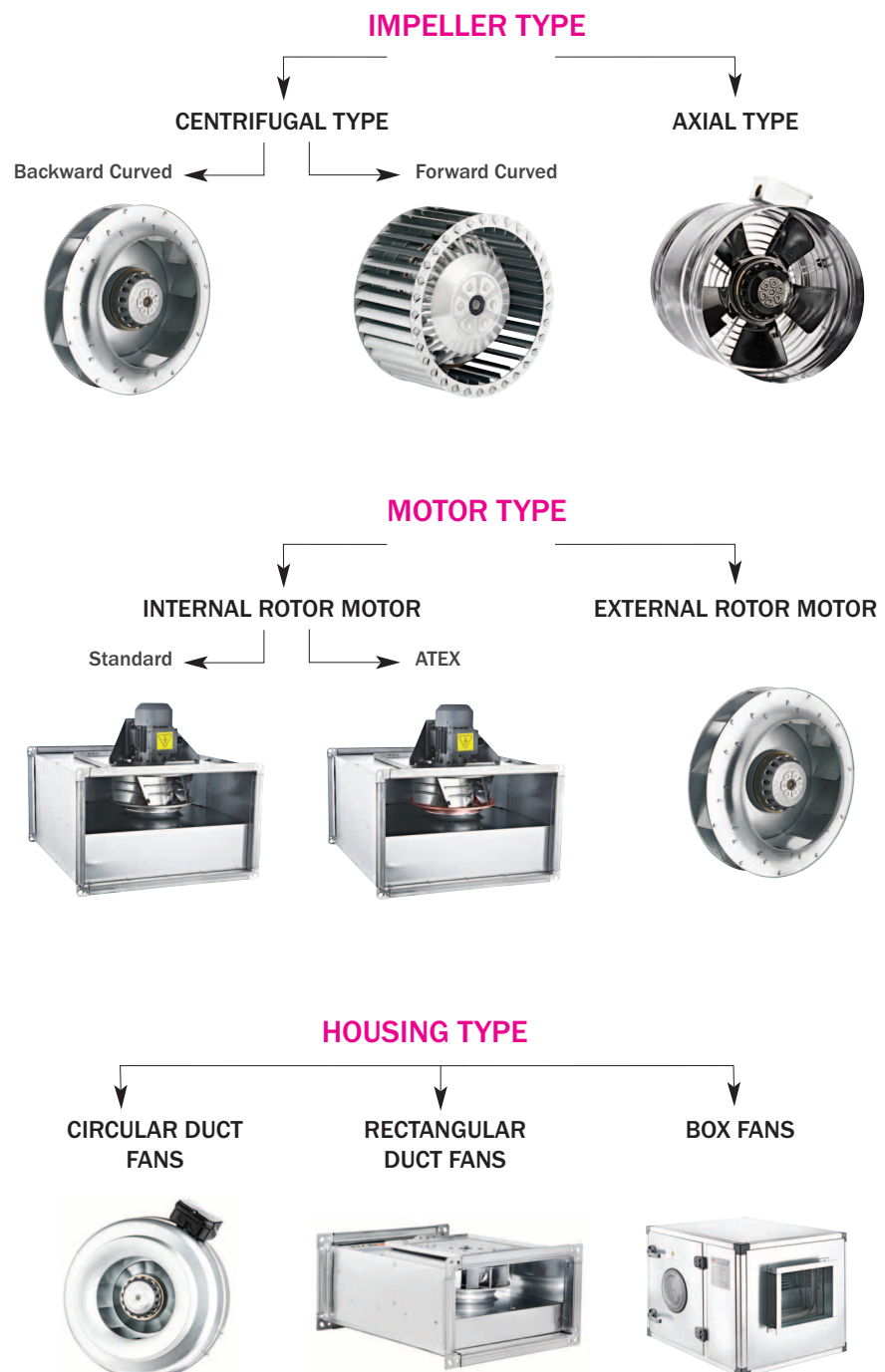
Rectangular and Square Duct Fans

Kitchen Exhaust Fans

Cabinet Fans

DUCT FANS

They are designed specially to connect ventilation ducts. Can be used in wide performance ranges. It is the most used fan type for different applications with its comprehensive product variety.







BDTX

ROUND DUCT TYPE FANS / Backward Curved

Device Components and Material Properties

The case and fan are made of high quality galvanized sheet metal which is pressed against corrosion. All models have an external rotor motor with a closed structure and have air transport at max.40°C. On request, the motor can be produced as thermally protected against high temperature. The terminal box and mounting legs are supplied with the product as standard. Suction and discharge nozzles are compatible with duct diameters and can be connected by clamp.

Fan Structure

Designed to work between round ducts. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

The rotation of the fan on the motor housing saves efficiency and space. It works at optimum sound levels while providing strong air suction. It can be operated in any position. If necessary, it can be mounted on the wall thanks to the mounting legs. Speed can be adjusted with speed control devices.

Speed Control

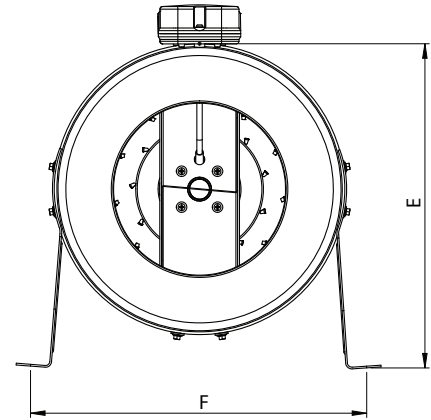
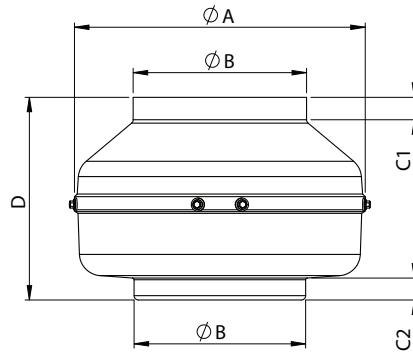
Optional control devices can be provided.

* Linear voltage regulator speed control can be done. (see BSC accessory)

Usage Areas

Round duct fans are used in low and medium volume ventilation requirements in duct systems where the application area is limited. It should be used with oil holding filter in oily environments.

Accessories

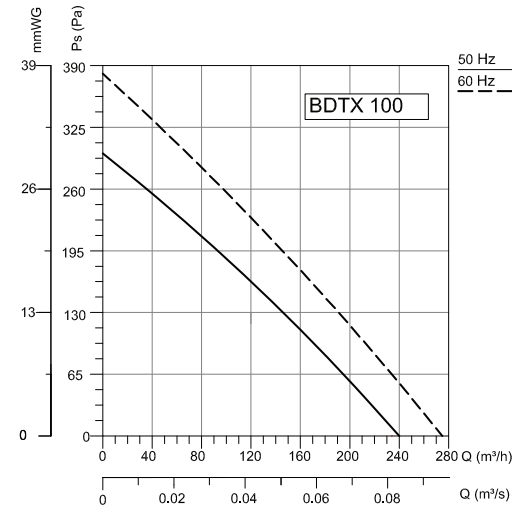


TYPE	A	B	C1	C2	D	E	F
BDTX 100	245	97	20	20	197	273	268
BDTX 125	245	122	20	20	188	273	268
BDTX 150	272	147	23	25	192	286	295
BDTX 160	272	157	23	25	192	286	295
BDTX 200	330	196	30	28	230	380	352
BDTX 250	330	247	30	28	227	380	352
BDTX 315	400	313	30	30	285	415	422
BDTX 355	400	352	30	30	378	415	422

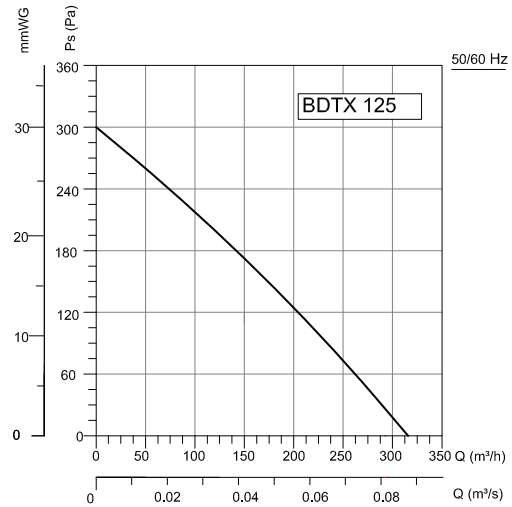
Dimensions are in (mm)

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
BDTX 100	230	50/60	60	0,3	2	2610/2960	240/275	44	B	44	2,6
BDTX 125	230	50/60	80	0,4	2,5	2325	315	43	B	44	2,7
BDTX 150	230	50/60	78	0,4	2,5	2450	420	46	B	44	3
BDTX 160	230	50/60	85	0,4	2,5	2550	440	45	B	44	3,2
BDTX 200-A	230	50/60	90	0,43	2,5	2300	735	46	B	44	4,4
BDTX 200-B	230	50/60	100/130	0,51/0,68	4	2530/2720	870/935	48	B	44	4,8
BDTX 250-A	230	50/60	140	0,69	4	2400	1010	45	B	44	4,9
BDTX 250-B	230	50/60	145/200	0,74/1,04	6	2650	1150	47	B	44	5,3
BDTX 315-A	230	50/60	160/210	0,8/1,1	6	2400	1450	48	B	44	6,8
BDTX 315-B	230	50/60	180/245	0,87/1,23	7	2500/2700	1750/1890	49	B	44	6,9
BDTX 355-A	230	50/60	160/175	1/0,85	4	1450/1700	1300/1525	45	F	44	9
BDTX 355-B	230	50	445	1,94	8	2450	2620	54	F	44	10

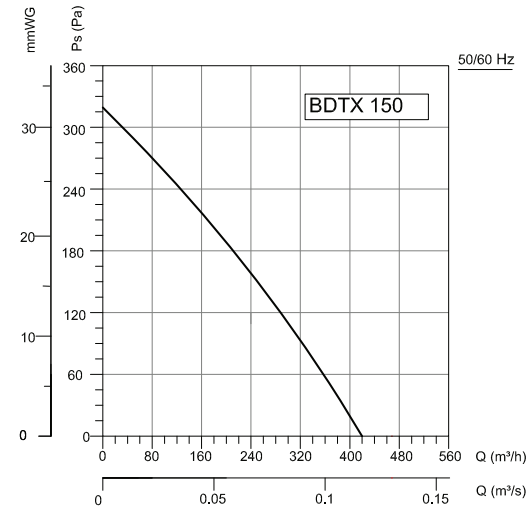
Sound Level Measured from 3m distance in room condition.



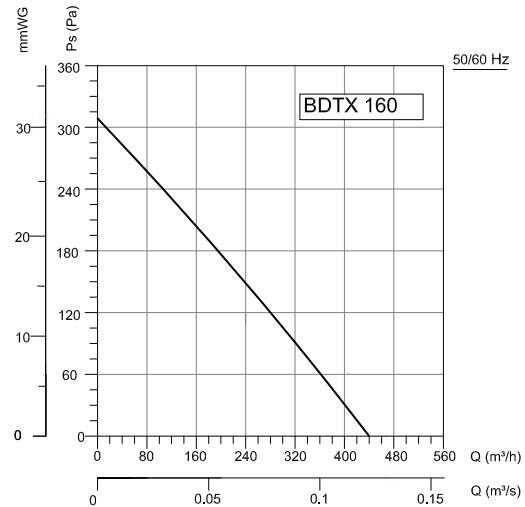
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	53	65	62	65	64	60	52	42	dB(A)
L_{WA} Outlet	68	54	64	58	62	61	58	50	40	dB(A)
L_{WA} Surrounding	51	29	17	30	47	46	45	39	27	dB(A)



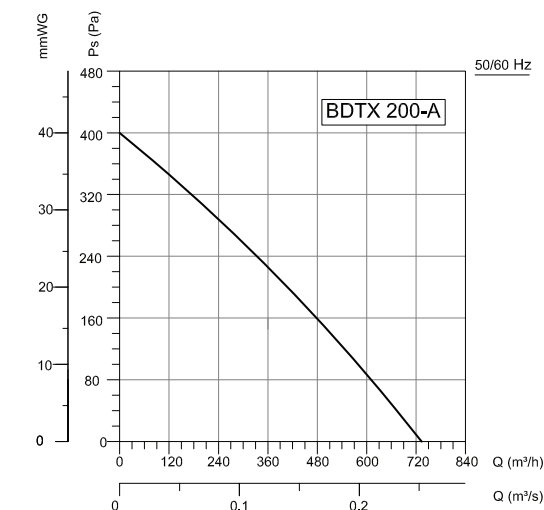
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	47	63	64	65	63	60	55	45	dB(A)
L_{WA} Outlet	68	49	62	59	62	61	58	52	43	dB(A)
L_{WA} Surrounding	50	20	20	39	45	44	43	36	30	dB(A)



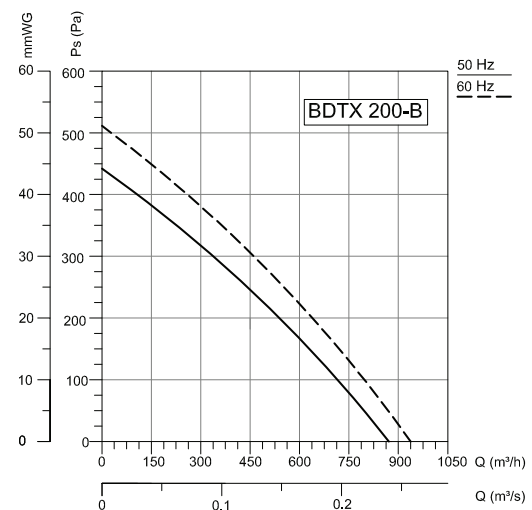
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	76	52	73	65	69	67	62	60	50	dB(A)
L_{WA} Outlet	74	55	71	62	68	64	62	55	50	dB(A)
L_{WA} Surrounding	53	20	35	37	50	45	46	44	32	dB(A)



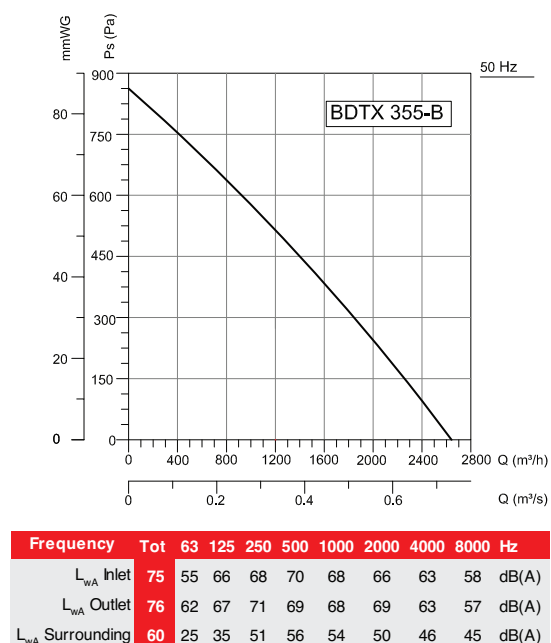
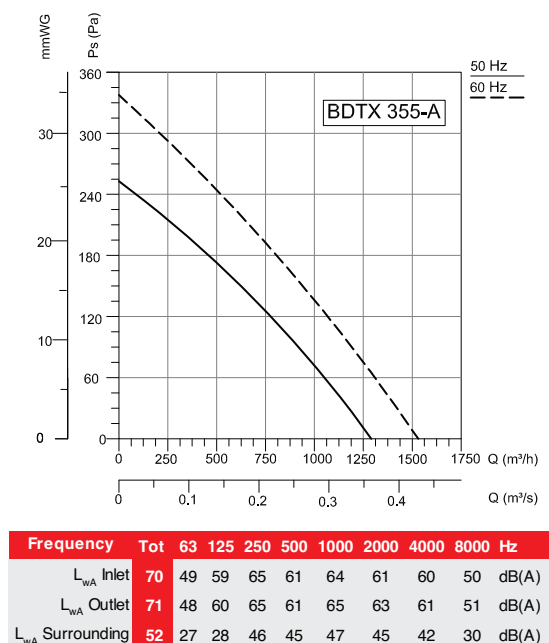
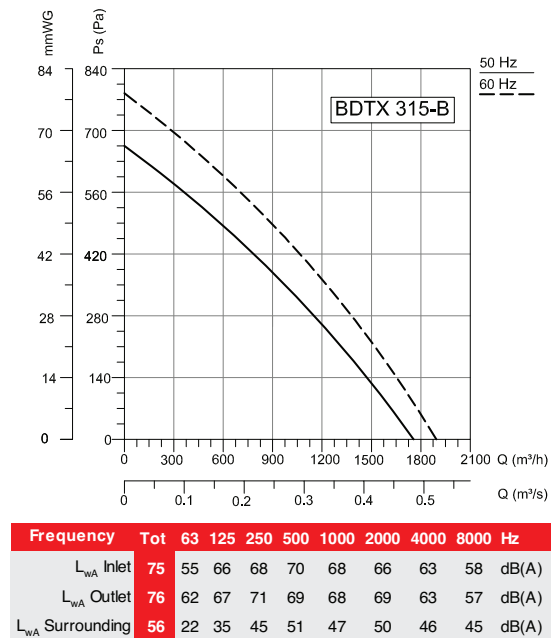
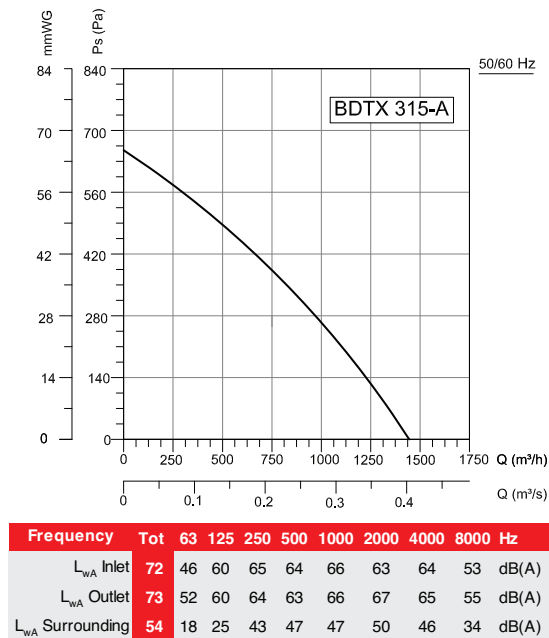
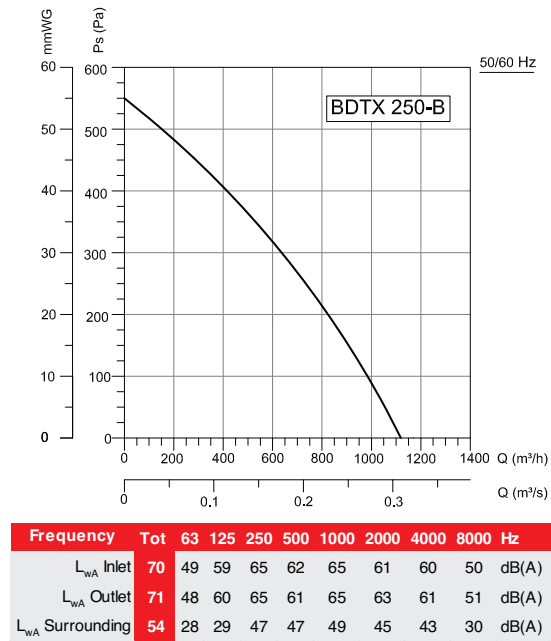
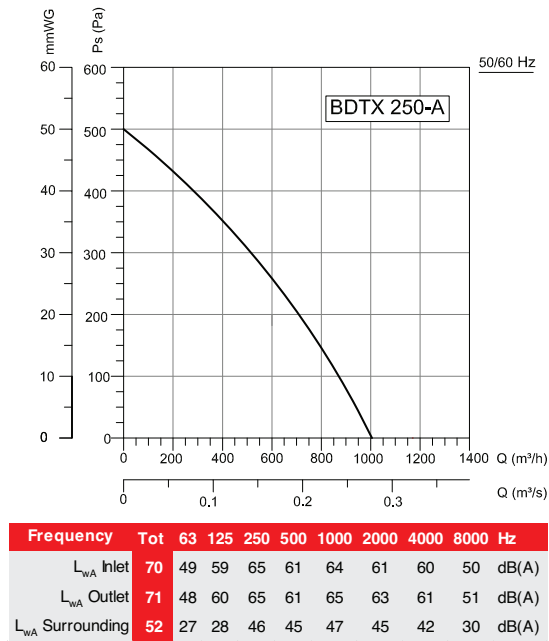
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	50	70	66	71	68	45	58	48	dB(A)
L_{WA} Outlet	76	56	74	61	69	66	62	56	48	dB(A)
L_{WA} Surrounding	52	10	32	36	48	46	45	42	28	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	42	61	64	63	64	63	56	54	dB(A)
L_{WA} Outlet	71	49	59	62	65	64	64	58	53	dB(A)
L_{WA} Surrounding	53	8	25	32	45	49	47	42	38	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	42	61	64	64	64	63	56	54	dB(A)
L_{WA} Outlet	72	49	60	63	66	64	66	58	53	dB(A)
L_{WA} Surrounding	54	8	35	40	47	50	47	45	40	dB(A)





BDTX-EC

ROUND DUCT TYPE FANS / Backward Curved

Device Components and Material Properties

The case and fan are made of high quality galvanized sheet metal which is pressed against corrosion. All models are equipped with EC motor with integrated speed control. The terminal box and mounting legs are supplied with the product as standard. Suction and discharge nozzles are compatible with duct diameters and can be connected by clamp.

Fan Structure

Designed to work between round channels. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

The rotation of the fan on the motor housing saves efficiency and space. It works at optimum sound levels while providing strong air suction. It can be operated in any position. If necessary, it can be mounted on the wall thanks to the mounting legs. With a more efficient motor, system efficiency is increased and lower operating costs are ensured.

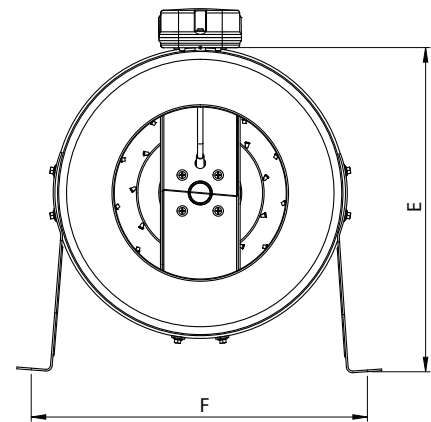
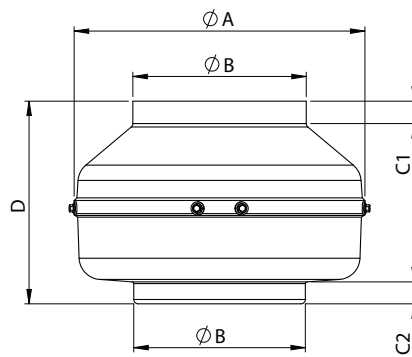
Speed Control

With EC motor integrated speed control, the desired speed can be achieved.

Usage Areas

Round duct fans are used in low and medium volume ventilation requirements in duct systems where the application area is limited. It should be used with oil holding filter in oily environments.

Technical Drawing and Tables

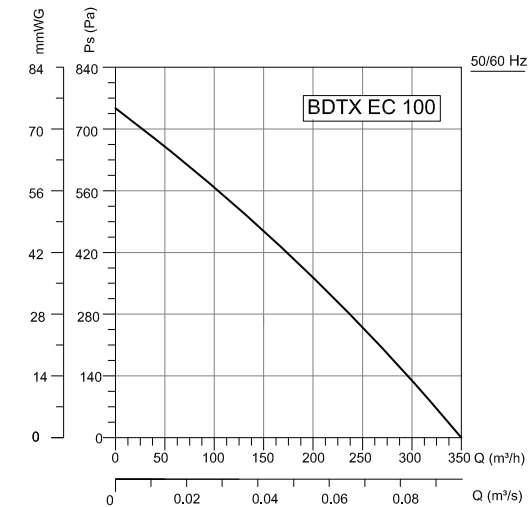


TYPE	A	B	C1	C2	D	E	F
BDTX-EC 100	245	97	20	20	197	273	268
BDTX-EC 125	245	122	20	20	188	273	268
BDTX-EC 150	272	147	23	25	192	286	295
BDTX-EC 160	272	157	23	25	192	286	295
BDTX-EC 200	330	196	30	28	230	380	352
BDTX-EC 250	330	247	30	28	227	380	352
BDTX-EC 315	400	313	30	30	285	415	422
BDTX-EC 355	400	352	30	30	378	415	422

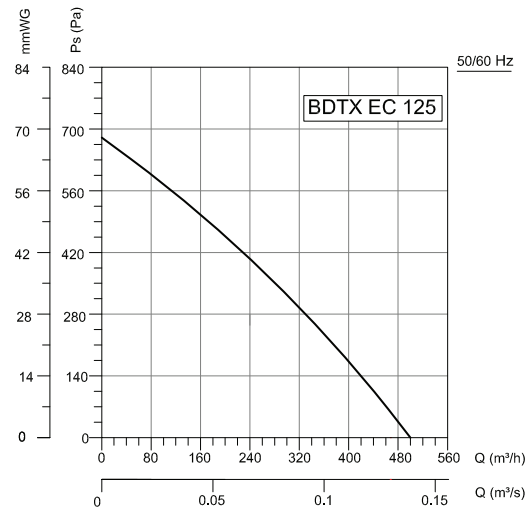
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	SPEED	AIR FLOW	MAX. PRESSURE	SOUND PRESSURE
	V	Hz	W	(A)	r.p.m	m ³ /h	Pa	dB(A)
BDTX-EC 100	220	50/60	90	0,7	3500	350	750	44
BDTX-EC 125	220	50/60	92	0,71	3450	500	690	43
BDTX-EC 150	220	50/60	94	0,72	3350	600	630	46
BDTX-EC 160	220	50/60	96	0,73	3345	650	650	45
BDTX-EC 200	220	50/60	130	0,87	3000	1100	600	46
BDTX-EC 250	220	50/60	135	0,85	3000	1300	700	46
BDTX-EC 315	220	50/60	150	1,2	2500	1700	750	48
BDTX-EC 355	220	50/60	350	1,5	2000	2200	500	45

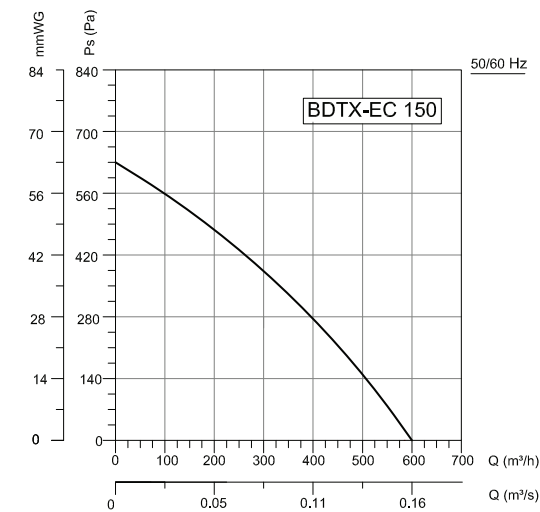
Sound Level Measured from 3m distance in room condition.



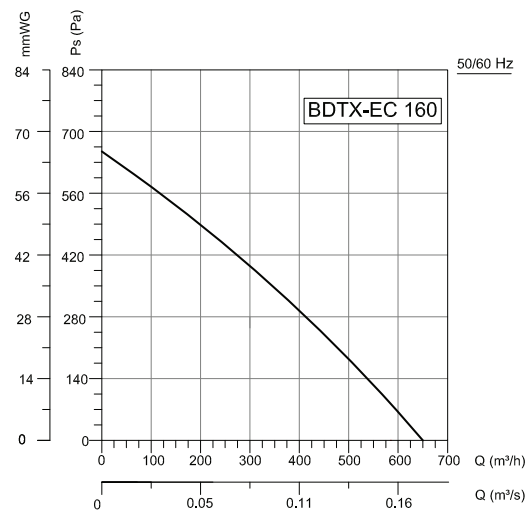
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	71	53	65	62	65	64	60	52	42	dB(A)
L _{WA} Outlet	68	54	64	58	62	61	58	50	40	dB(A)
L _{WA} Surrounding	51	29	17	30	47	46	45	39	27	dB(A)



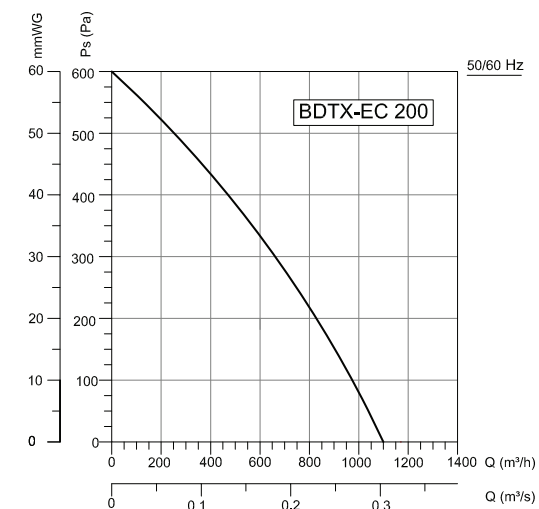
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	47	63	64	65	63	60	55	45	dB(A)
L _{WA} Outlet	68	49	62	59	62	61	58	52	43	dB(A)
L _{WA} Surrounding	50	20	20	39	45	44	43	36	30	dB(A)



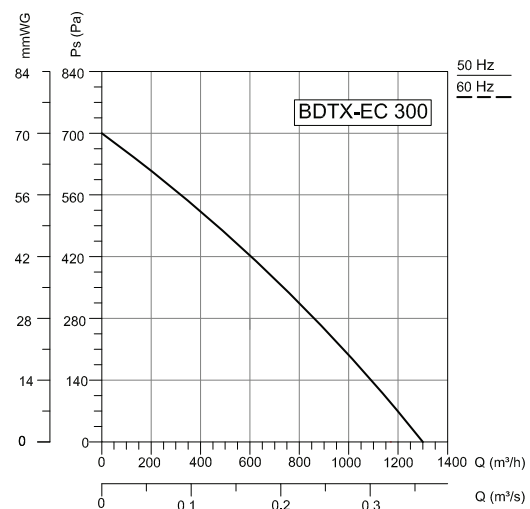
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	52	73	65	69	67	62	60	50	dB(A)
L _{WA} Outlet	74	55	71	62	68	64	62	55	50	dB(A)
L _{WA} Surrounding	53	20	35	37	50	45	46	44	32	dB(A)



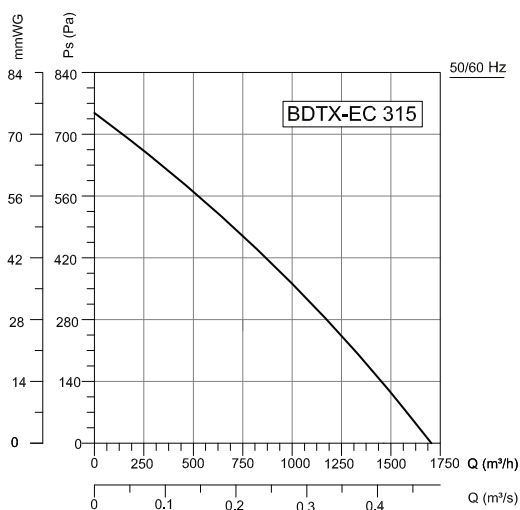
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	75	50	70	66	71	68	45	58	48	dB(A)
L _{WA} Outlet	76	56	74	61	69	66	62	56	48	dB(A)
L _{WA} Surrounding	52	10	32	36	48	46	45	42	28	dB(A)



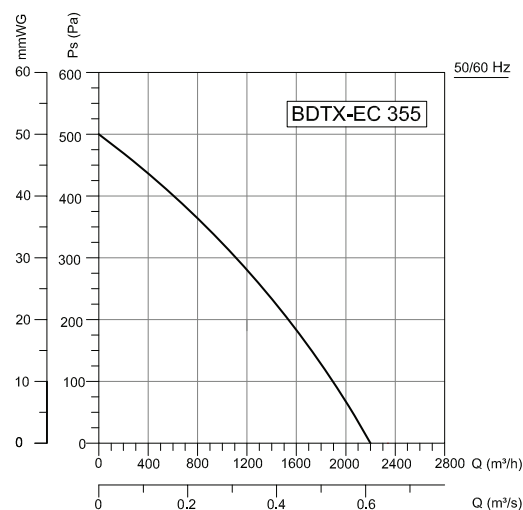
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	42	61	64	63	64	63	56	54	dB(A)
L _{WA} Outlet	71	49	59	62	65	64	64	58	53	dB(A)
L _{WA} Surrounding	53	8	25	32	45	49	47	42	38	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	71	42	61	64	64	64	63	56	54	dB(A)
L _{WA} Outlet	72	49	60	63	66	64	66	58	53	dB(A)
L _{WA} Surrounding	54	8	35	40	47	50	47	45	40	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	49	59	65	61	64	61	60	50	dB(A)
L _{WA} Outlet	71	48	60	65	61	65	63	61	51	dB(A)
L _{WA} Surrounding	52	27	28	46	45	47	45	42	30	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	49	59	65	62	65	61	60	50	dB(A)
L _{WA} Outlet	71	48	60	65	61	65	63	61	51	dB(A)
L _{WA} Surrounding	54	28	29	47	47	49	45	43	30	dB(A)

Accessories





BMFX

ROUND DUCT TYPE FANS / Mixed Flow

Device Components and Material Properties

Duct type mixed flow fans, ST extension models are standard and SL extension models are silent versions. Body and fan made of plastic. In SL models, the inner wall has a special perforated design that directs the sound waves towards the sound absorbing material. BMFX 250 and 315 models are also available with electrostatic painted sheet version. Thanks to the body design, it is possible to disassemble and install the fan and motor without being disassembled.

Fan Structure

Mixed flow fans consist of a combination of working principles of axial and casing centrifugal fans. These fans draw air in and out more linearly. This makes the system more efficient and reduces motor power.

Benefits

They are highly efficient due to the mixed flow propeller. They work pretty quietly. When the fan is connected to the duct, the motor part can be easily removed and installed. They can work in double cycle. SL versions sound much quieter with sound insulation. The suction and discharge nozzles are compatible with the duct diameters and can be connected by clamp.

Speed Control

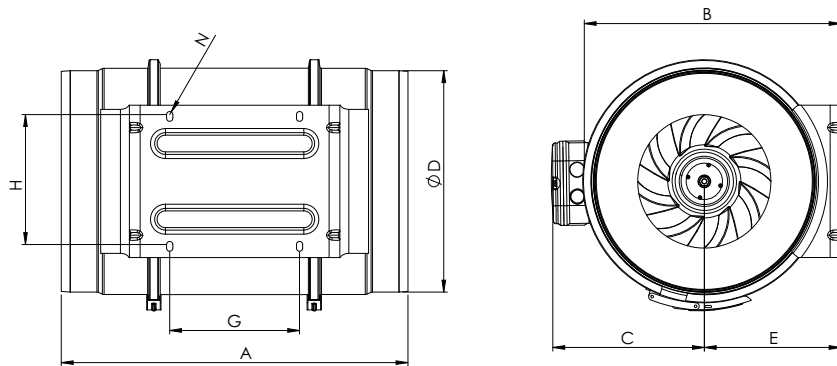
Optional control devices can be provided.

* Double speed motor * Speed control with linear voltage regulator (see BSC accessory)

Usage Areas

It is used for return air, supply air or general ventilation applications where low noise level and high efficiency are important. It should be used with oil holding filter in oily environments.

Technical Drawing and Tables

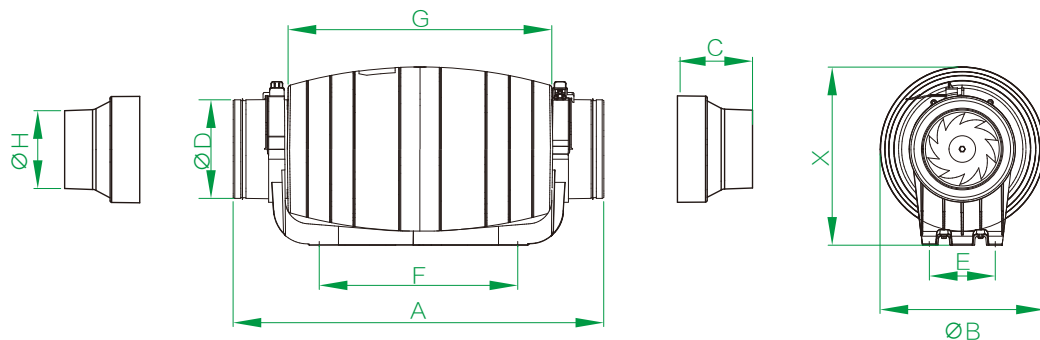


TYPE	A	B	C	D	E	G	H	N
BMFX-100	303	188	115	97	100	80	60	5,5
BMFX-125	258	188	115	123	100	80	60	5,5
BMFX-150	320	212	127	147	112	80	60	5,5
BMFX-200	302	232,5	141	197	124	100	94	5,5
BMFX-250	386	291	192	248	155	145	140	7X4
BMFX-315	450	356	224	312	188	182	178	7X4
BMFX-250-P	383	286	173	247	151	150	173	7X4
BMFX-315-P	446	357	216	312	187	181	216	7X4

Dimensions are in (mm)

TYPE	A	ØB	ØD	E	F	G	X	C	ØH
BMFX-ST100	460	204	23	81	248	333	222	93	98
BMFX-ST125	460	204	23	81	248	333	222		
BMFX-SL150	485	223	148	94	251	355	246		
BMFX-SL200	570	265	198	127	340	440	297		

Dimensions are in (mm)

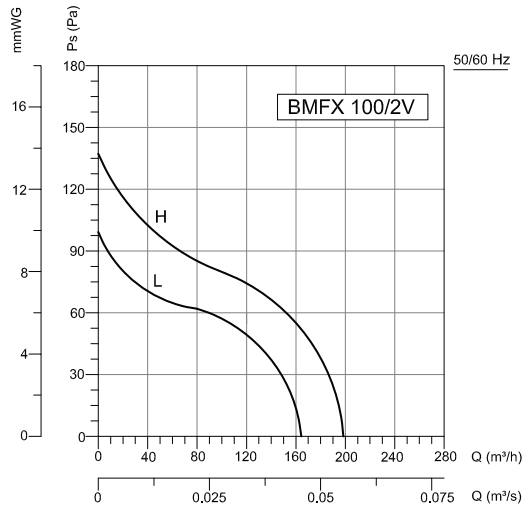


TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT	SPEED
	V	Hz	W	(A)	(μF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg	
BMFX 100/2V	230	50/60	20 18	0,11 0,10	1	2200 1850	198 165	31 26	B	44	1,8	H L
BMFX 125/2V	230	50/60	27 23	0,14 0,12	1	2250 1950	284 248	31 26	B	44	2	H L
BMFX 150/2V	230	50/60	44 35	0,22 0,19	1,2	2550 1950	530 410	33 29	B	44	2,7	H L
BMFX 200/2V	230	50/60	100 90	0,52 0,48	3	2350 2050	840 690	36 32	B	44	4,8	H L
BMFX 250/2V	230	50/60	140 110	0,7 0,6	5	2500 2050	1100 990	40 37	F	44	9,4	H L
BMFX 315/2V	230	50/60	190 145	1,1 0,74	10	2680 2150	2000 1500	45 40	F	44	14	H L
BMFX 250-P/2V	230	50/60	225 165	1,2 0,75	8	2450 1850	1405 1064	38 34	B	44	7,5	H L
BMFX 315-P/2V	230	50/60	390 275	1,9 1,4	16	2350 1650	2206 1750	42 38	B	44	11	H L
BMFX-ST 100/2V	230	50/60	35 20	0,26 0,15	1	2600 2100	177 133	25 23	B	44	3	H L
BMFX-ST 125/2V	230	50/60	35 20	0,28 0,17	1	2600 2100	218 181	31 26	B	44	3,5	H L
BMFX-SL 150/2V	230	50/60	50 43	0,25 0,2	1,2	2550 1850	530 410	33 26	B	44	4	H L
BMFX-SL 200/2V	230	50/60	128 123	0,57 0,52	3	2450 1950	840 690	35 29	B	44	4,8	H L

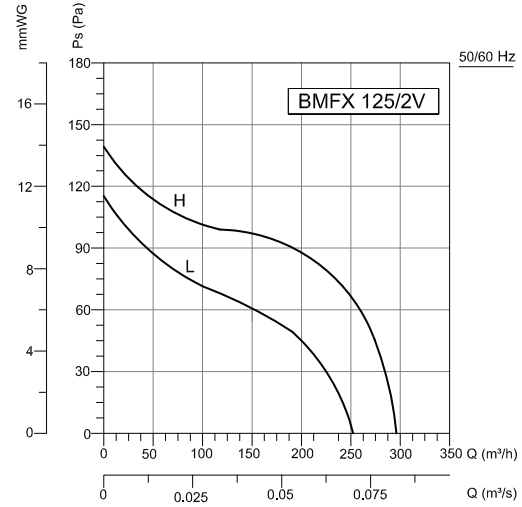
Sound Level Measured from 3m distance in room condition.

Accessories

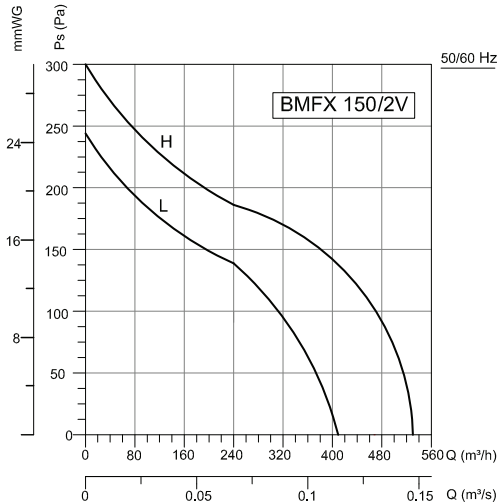




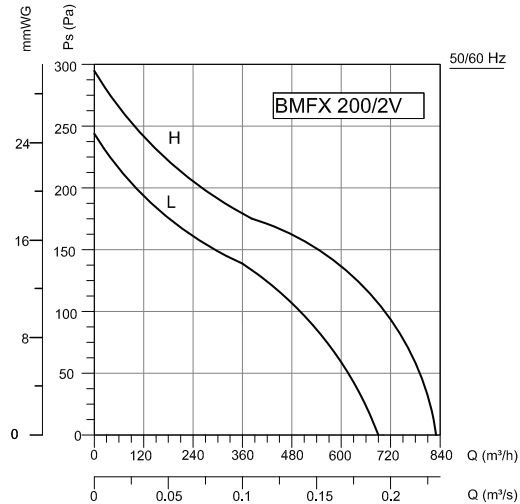
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	58	29	48	46	54	53	48	40	34	dB(A)
L_{WA} Surrounding	52	28	47	46	45	44	44	33	26	dB(A)



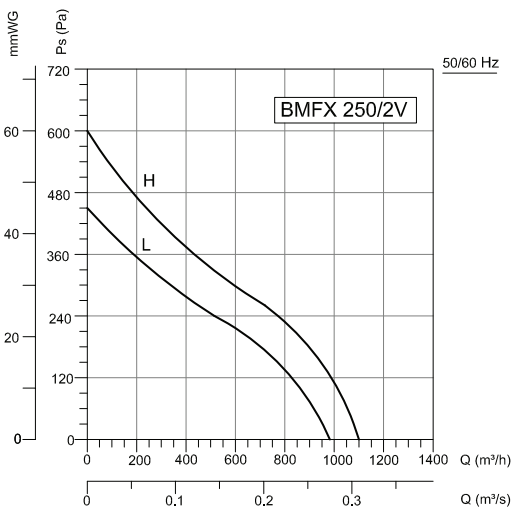
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	56	33	45	44	51	52	48	39	31	dB(A)
L_{WA} Surrounding	51	31	44	44	45	45	43	31	22	dB(A)



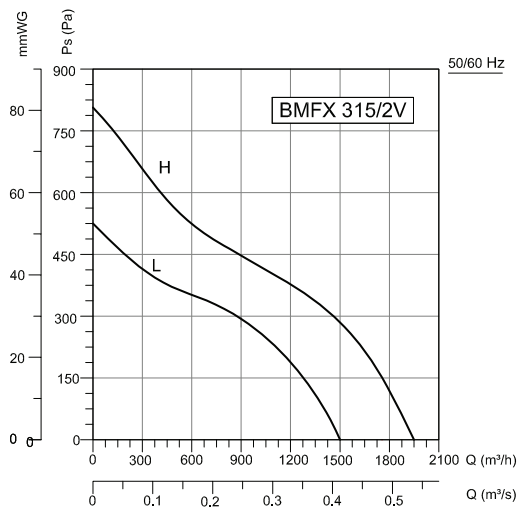
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	65	33	35	55	56	59	60	56	47	dB(A)
L_{WA} Surrounding	54	25	32	43	39	44	53	42	29	dB(A)



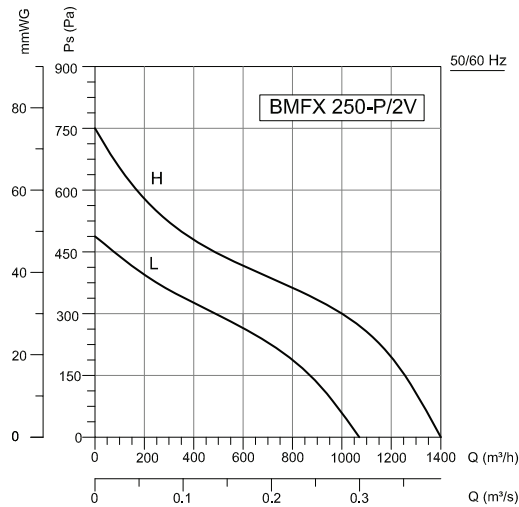
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	34	44	58	60	65	64	61	51	dB(A)
L_{WA} Surrounding	57	26	33	44	43	51	54	45	30	dB(A)



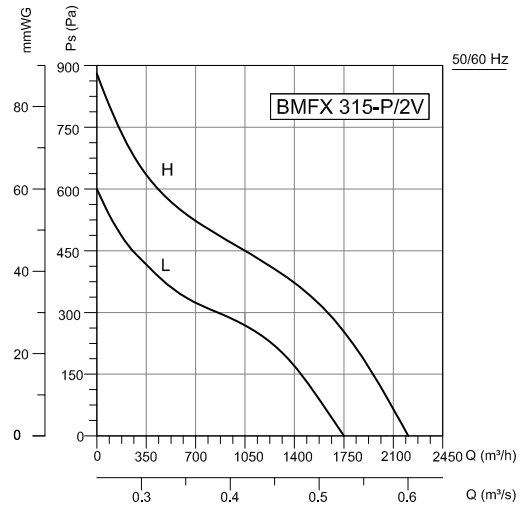
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	33	46	58	66	72	69	62	55	dB(A)
L_{WA} Surrounding	61	25	35	45	46	58	57	47	43	dB(A)



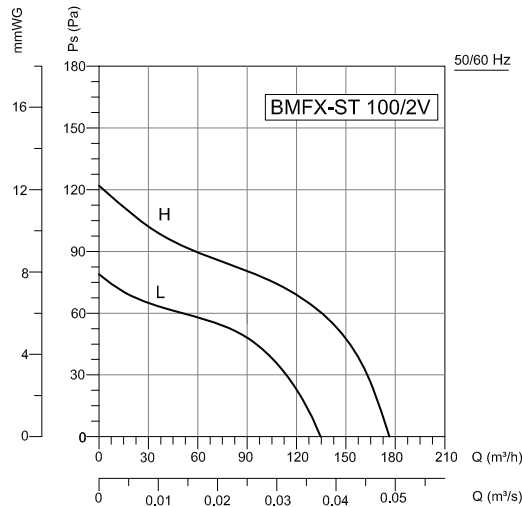
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	38	54	63	68	74	41	54	59	dB(A)
L_{WA} Surrounding	65	26	38	49	52	61	60	54	50	dB(A)



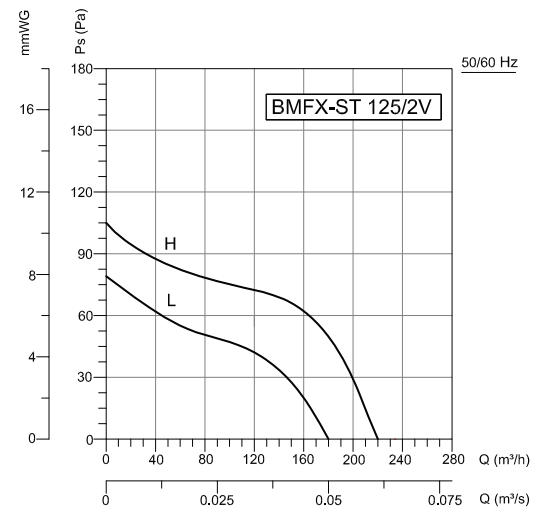
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	73	31	44	56	64	70	67	60	53	dB(A)
L _{WA} Surrounding	59	23	33	43	44	56	55	45	41	dB(A)



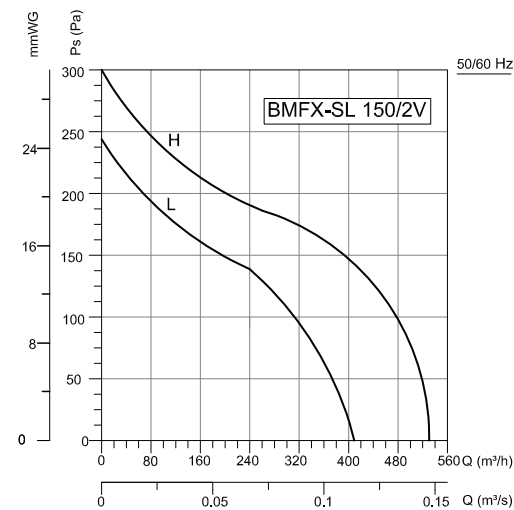
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	36	52	61	68	72	39	52	57	dB(A)
L _{WA} Surrounding	63	24	36	47	50	59	58	52	48	dB(A)



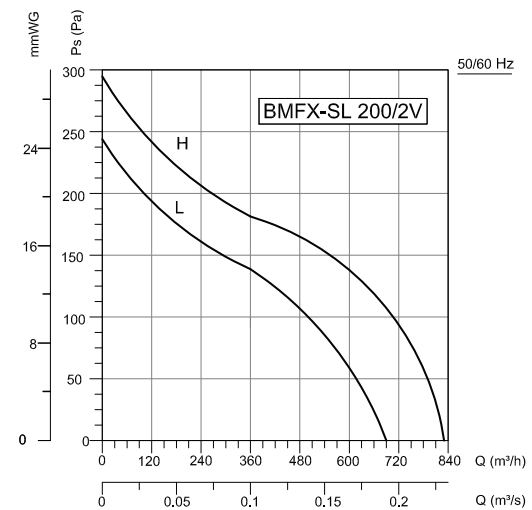
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	56	33	45	44	51	52	48	39	31	dB(A)
L _{WA} Surrounding	51	31	44	44	45	45	43	31	22	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	56	33	45	44	51	52	48	39	31	dB(A)
L _{WA} Surrounding	51	31	44	44	45	45	43	31	22	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	62	30	32	52	53	56	57	53	44	dB(A)
L _{WA} Surrounding	51	23	29	40	36	41	50	39	26	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	68	33	43	57	59	64	63	60	50	dB(A)
L _{WA} Surrounding	56	25	32	43	42	50	53	44	29	dB(A)



BORAX

ROUND DUCT TYPE FANS / Axial

Fan Components and Material Properties

The frame and propeller are made of electrostatic powder coated sheet metal and electrostatic powder coated from protective wire mesh. The motor and fan impeller are connected to the main body by steel carriers. It has an external rotor motor with closed structure.

Benefits

Thanks to their ideal wing angles, they achieve high air flow at minimum sound levels despite their small size. It can be easily mounted to the round duct.

Speed Control

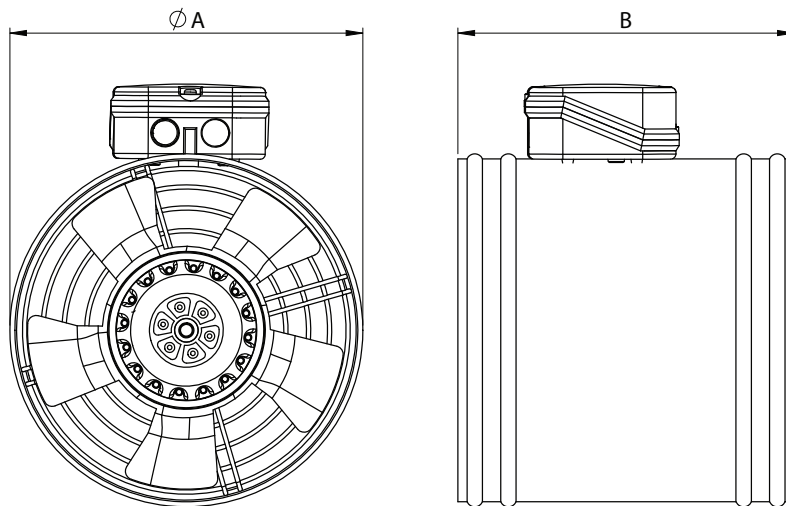
Optional control devices can be provided.

* Linear voltage regulator speed control can be done. (see BSC accessory)

Usage Areas

BORAX axial duct fans are ideal for applications where ventilation and ventilation are required in air and industrial areas. It is also used for air circulation by machine manufacturers.

Technical Drawing and Tables

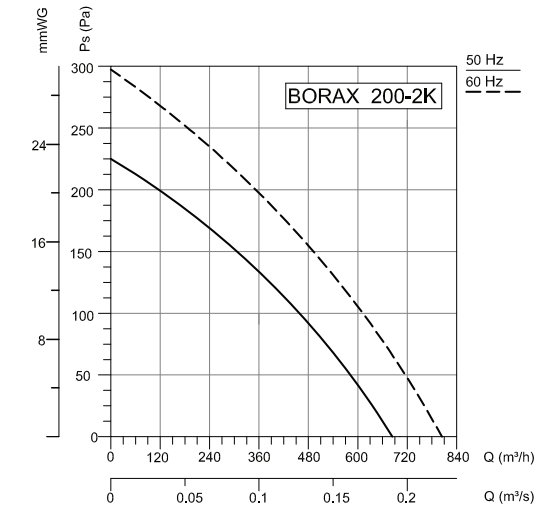


TYPE	A	B
BORAX 200-2K	200	200
BORAX 250-2K	250	250
BORAX 300-2K	300	250
BORAX 350-2K	355	250

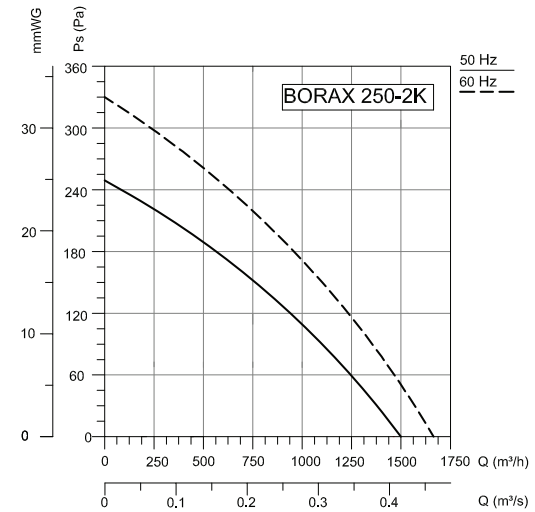
Dimensions are in (mm)

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
BORAX 200-2K	230	50/60	63	0,28	2	2750/3200	680/790	50	B	44	2,7
BORAX 250-2K	230	50/60	100	0,5	4	2700/3100	1500/1700	55	B	44	3,6
BORAX 300-2K	230	50/60	140/190	0,6/0,85	5	2600/2800	2020/2175	57	B	44	4,6
BORAX 350-2K	230	50/60	200	0,9	5	2050	3110	62	B	44	5,6

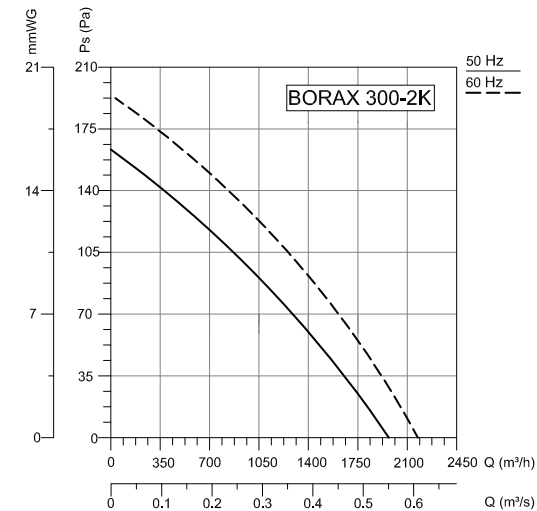
The sound level is measured at a distance of 3 m in open field condition.



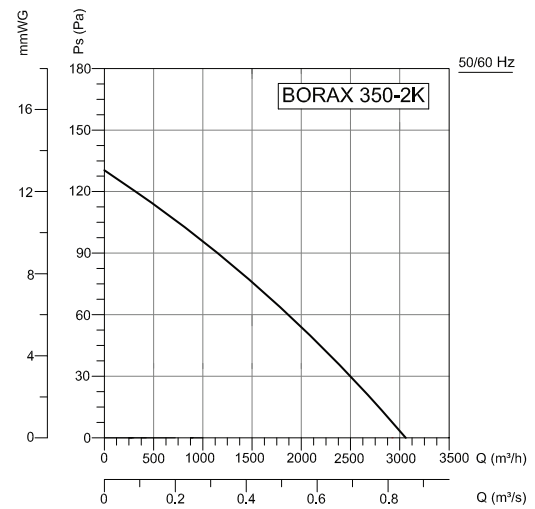
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Surrounding	71	38	43	64	64	65	64	58	50	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Surrounding	76	44	51	66	66	70	71	67	62	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Surrounding	78	46	53	68	68	72	73	69	64	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Surrounding	83	48	64	68	74	80	78	73	60	dB(A)

Accessories



BSC



BYF



BESB



BYH



BYKS



BASP



BPX

ROUND DUCT TYPE FANS / Plastic Housing

Fan Components and Material Properties

The case is made of plastic material. The fan is made of high quality galvanized sheet metal which is pressed against corrosion. It has an external rotor motor with closed structure. Mounting legs are supplied with the product as standard. Max.40°C air transport feature.

Fan Structure

Designed to work between round channels. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

The rotation of the fan on the motor housing saves efficiency and space. It works at optimum

sound levels while providing strong air suction. It can be operated in any position. If necessary, it can be mounted on the wall thanks to the mounting legs. Speed can be adjusted with speed control devices.

Speed Control

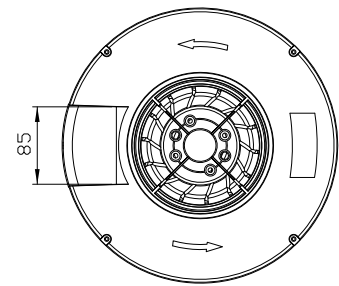
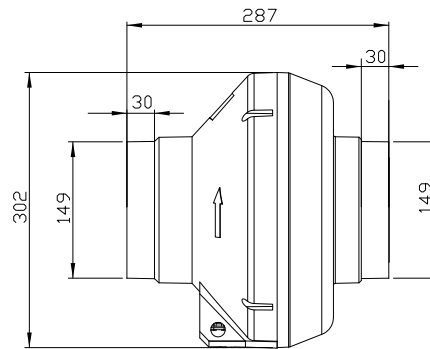
Optional control devices can be provided.

* Speed control with linear voltage regulator (see BSC accessory)

Usage Areas

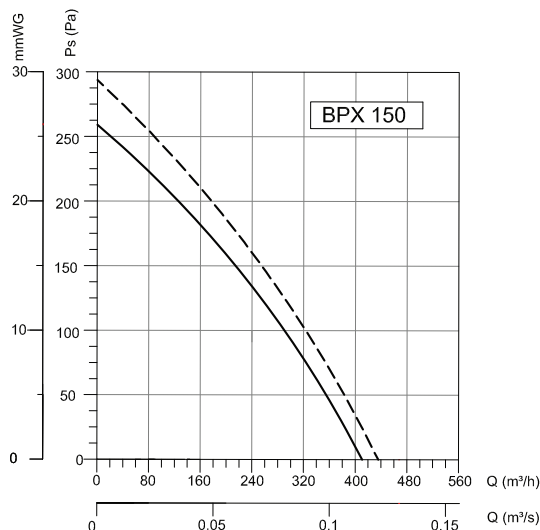
Round duct fans are used in low and medium volume ventilation requirements in duct systems where the application area is limited. It should be used with oil holding filter in oily environments.

Technical Drawing and Tables



	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
BPX 150	230	50/60	85/110	0,38/0,48	2,5	2450/2600	410/435	46	B	44	2,7

Sound Level Measured from 3m distance in room condition.



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	52	73	65	69	67	62	60	50	dB(A)
L _{WA} Outlet	74	55	71	62	68	64	62	55	50	dB(A)
L _{WA} Surrounding	53	20	35	37	50	45	46	44	32	dB(A)

Accessories





BFTX

ROUND WALL MOUNTED FANS / Backward Curved

Fan Components and Material Properties

Square frame is electrostatic painted. The impeller is made of high quality galvanized sheet metal which is pressed against corrosion. All models have an external rotor motor with a closed structure and have air transport at max.40°C. Designed to work on the wall. It can be operated in any position. On request, the motor can be produced as thermally protected against high temperature. The terminal box is supplied with the product as standard. Suction nozzle is compatible with duct diameters and can be connected by clamp.

Fan Structure

Designed to work between round channels. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

It can be easily mounted to the desired surface from the holes on the frame. It has a strong air flow. Speed can be adjusted with speed control devices.

Speed Control

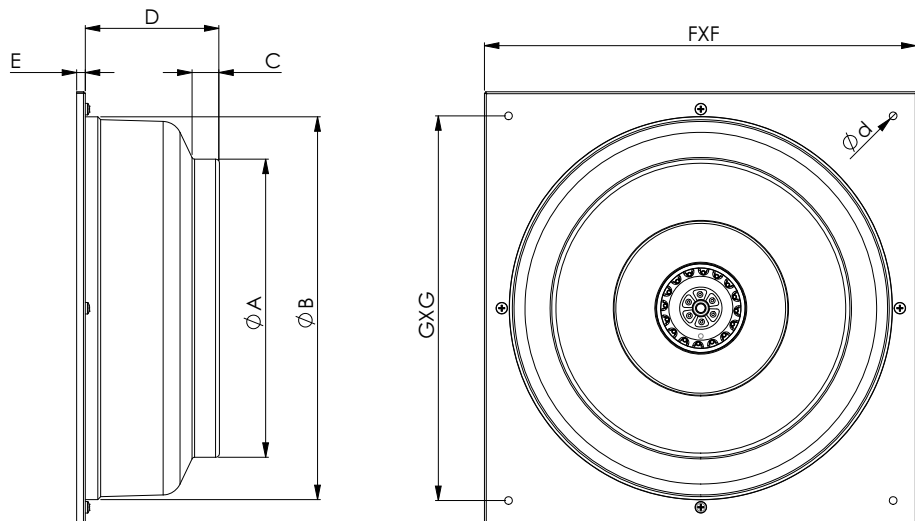
Optional control devices can be provided.

* Linear voltage regulator speed control can be done. (see BSC accessory)

Usage Areas

Round duct fans are used in low and medium volume ventilation requirements in duct systems where the application area is limited. It should be used with oil holding filter in oily environments.

Technical Drawing and Tables

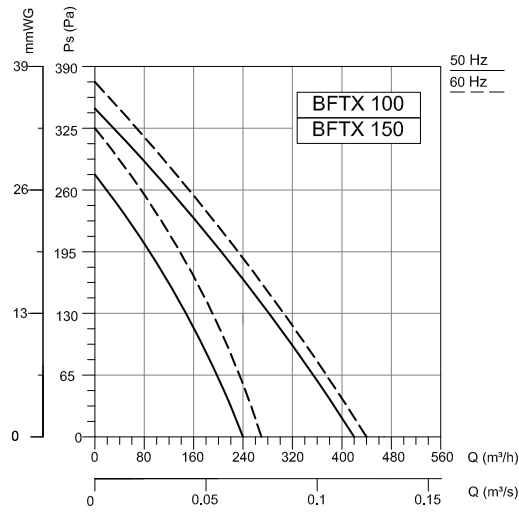


TYPE	ØA	ØB	C	D	E	F	G	d
BFTX 100	97	244	20	100	9	315	265	8
BFTX 150-B	147	270	24	105	9	400	350	8
BFTX 200-B	196	330	24	113	9	400	350	8
BFTX 250-B	246	330	24	116	9	400	350	8
BFTX 315-B	310	398	26	140	9	500	400	8

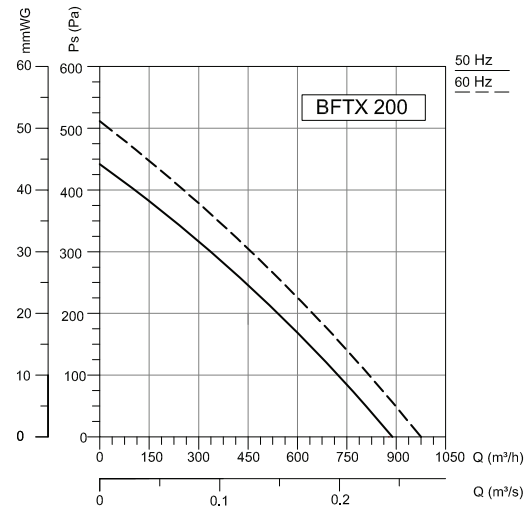
Dimensions are in (mm)

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
BFTX 100	230	50/60	70	0,3	2	2600/2900	240/270	44	B	44	2,7
BFTX 150-B	230	50/60	85/100	0,37/0,45	2,5	2430/2530	420/440	46	B	44	3,6
BFTX 200-B	230	50/60	110/140	0,48/0,63	4	2650/2950	870/970	48	B	44	4,8
BFTX 250-B	230	50/60	160/225	0,73/1,02	6	2550/2675	1150/1200	47	B	44	5,3
BFTX 315-B	230	50/60	200/280	0,88/0,97	7	2550/2700	1750/1890	49	B	44	6,6

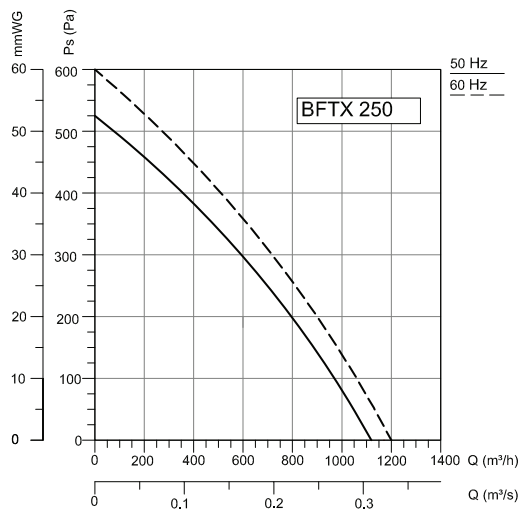
Sound Level Measured from 3m distance in room condition.



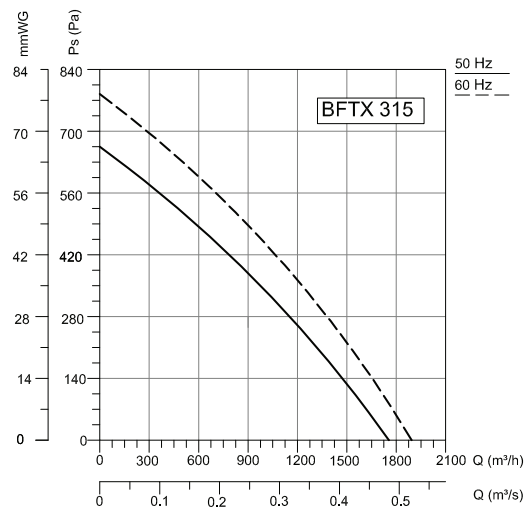
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	54	65	62	65	64	60	52	40	dB(A)
L_{WA} Outlet	68	54	64	58	62	61	58	50	37	dB(A)
L_{WA} Surrounding	51	29	17	30	48	46	44	39	27	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	42	61	65	66	67	63	56	54	dB(A)
L_{WA} Outlet	71	49	59	62	65	67	64	58	53	dB(A)
L_{WA} Surrounding	54	10	25	35	45	50	49	43	39	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	42	61	64	65	66	62	56	54	dB(A)
L_{WA} Outlet	70	49	58	60	64	66	63	58	53	dB(A)
L_{WA} Surrounding	53	10	25	35	44	49	48	43	39	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	74	54	64	68	68	66	64	61	56	dB(A)
L_{WA} Outlet	75	59	65	69	67	68	68	61	55	dB(A)
L_{WA} Surrounding	56	24	37	44	51	48	50	45	46	dB(A)

Accessories







BDKF

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The models of Bdkf 30-15 / 70-40A are made of high quality galvanized steel which is resistant to corrosion. Bdkf 70-40B / 80-50 / 100-50 models are made of aluminum sheet. 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.

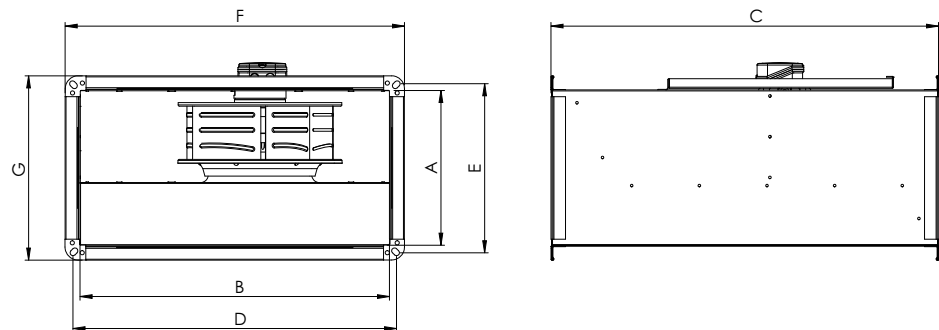
Speed Control

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

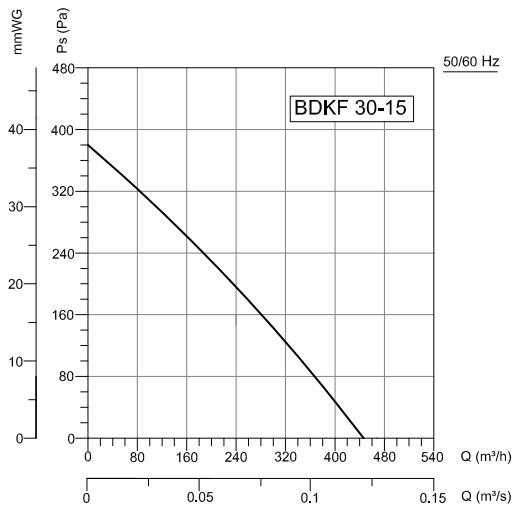


TYPE	A	B	C	D	E	F	G
BDKF 30-15	150	300	400	320	170	350	200
BDKF 40-20A	200	400	500	420	220	450	250
BDKF 40-20B	200	400	500	420	220	450	250
BDKF 50-25	250	500	565	520	270	550	300
BDKF 60-30	300	600	750	620	320	650	350
BDKF 60-35A	350	600	750	620	370	650	400
BDKF 60-35B	350	600	750	620	370	650	400
BDKF 70-40A	400	700	800	720	420	750	450
BDKF 70-40B	400	700	800	720	420	750	450
BDKF 80-50	500	800	920	820	520	850	560
BDKF 100-50	500	1000	1050	1030	530	1060	560

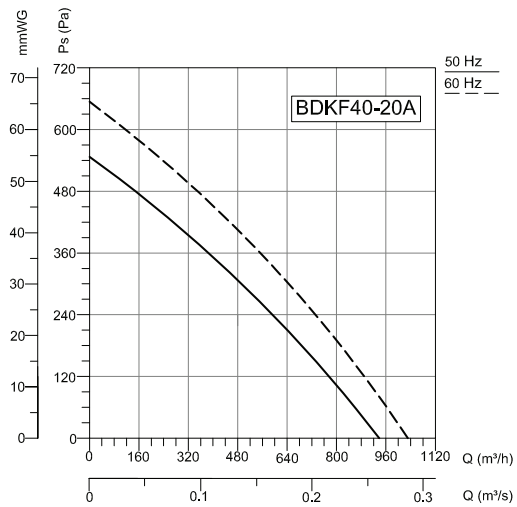
Dimensions are in (mm)

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	160	0,9	6	1440/1730	1850/2220	50	F	44	29
BDKF 60-35A	230	50/60	140/160	0,86/0,82	6	1440/1725	2500/3000	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 80-50M	230	50/60	880/1160	3,83/5,11	16	1250/1150	7000/6440	64	F	44	72
BDKF 100-50M	230	50	1550	7,3	25	1250	9600	66	F	44	84
BDKF 80-50	380 Δ/λ	50	960/530	2/1,1	-	1335/1050	7550/5950	64	F	44	66
BDKF 100-50	380Δ/λ	50	1400/900	2,7/1,7	-	1250/950	9600/7300	66	F	44	84

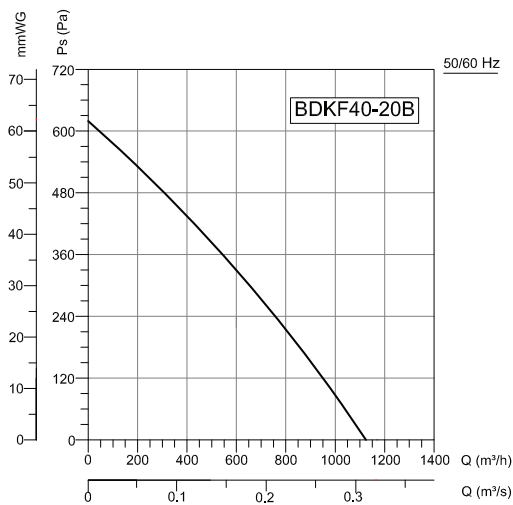
Sound Level Measured from 3m distance in room condition.



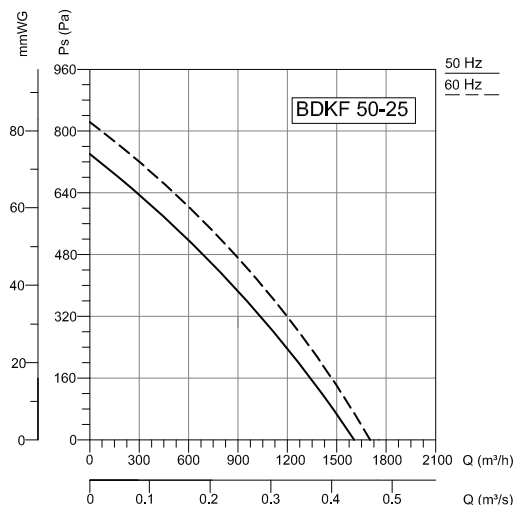
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	66	44	56	64	56	55	53	47	38	dB(A)
L_{WA} Outlet	69	48	53	66	63	61	58	51	43	dB(A)
L_{WA} Surrounding	50	26	33	47	44	42	41	35	27	dB(A)



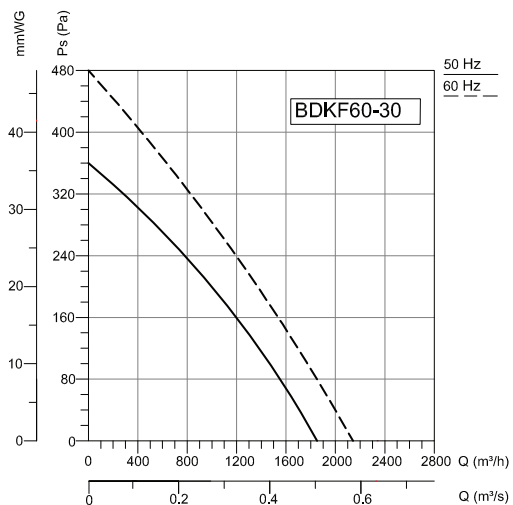
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	44	54	66	58	61	59	55	47	dB(A)
L_{WA} Outlet	72	44	53	67	64	63	66	61	58	dB(A)
L_{WA} Surrounding	55	20	34	53	45	44	44	38	35	dB(A)



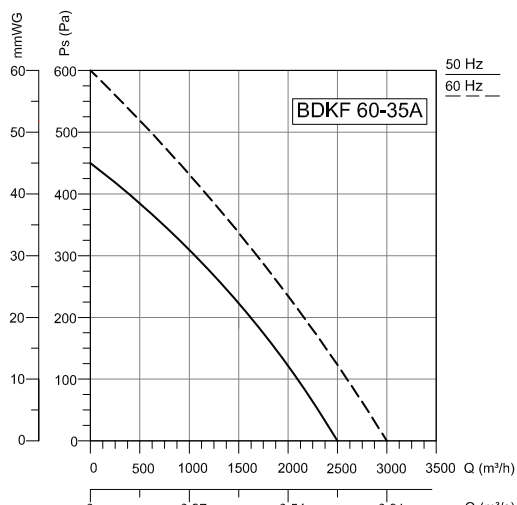
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	74	50	61	69	63	67	65	63	60	dB(A)
L_{WA} Outlet	78	51	61	70	69	70	73	67	69	dB(A)
L_{WA} Surrounding	61	31	35	55	54	54	55	47	45	dB(A)



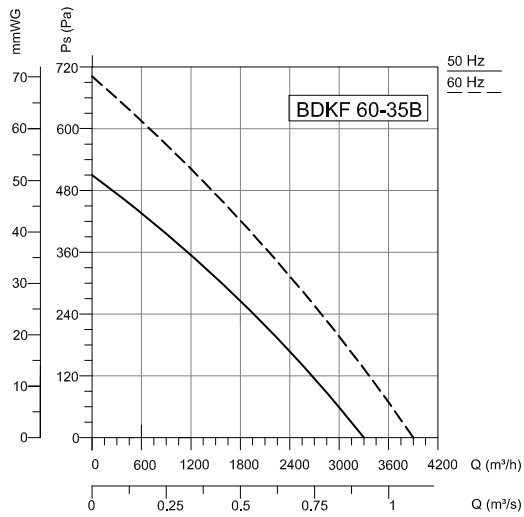
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{WA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{WA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



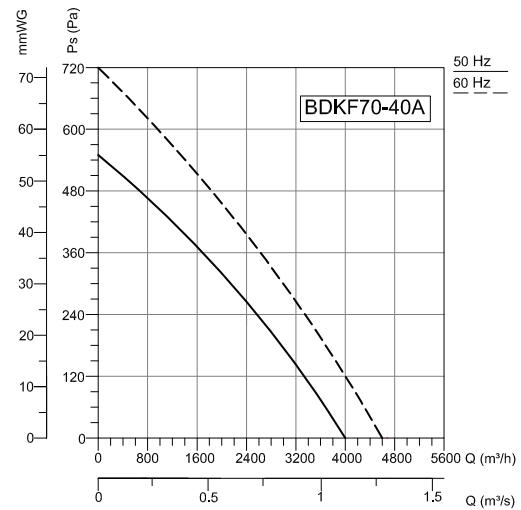
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	50	62	64	61	62	57	52	44	dB(A)
L_{WA} Outlet	72	49	60	65	68	65	63	58	46	dB(A)
L_{WA} Surrounding	57	35	47	54	52	47	44	39	32	dB(A)



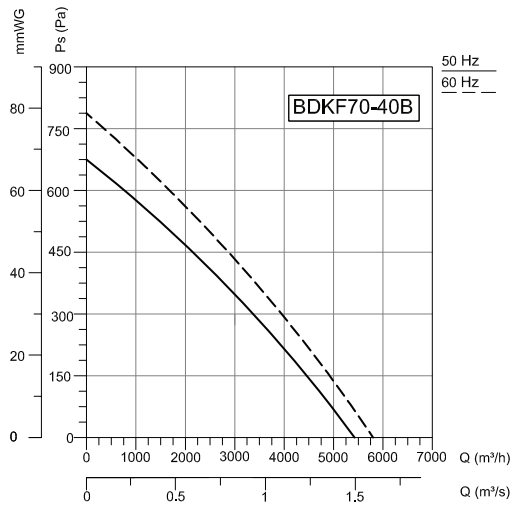
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{WA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{WA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



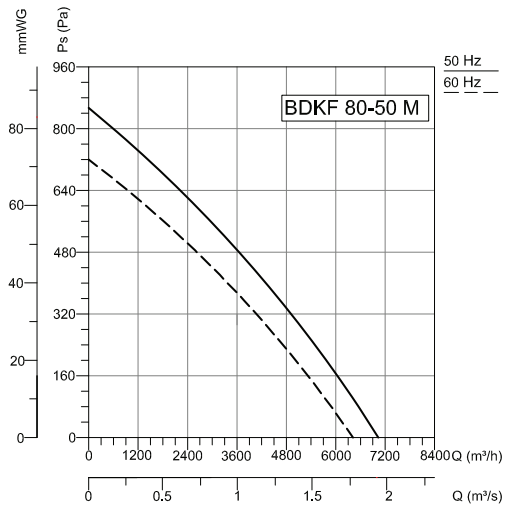
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	66	68	66	65	62	53	dB(A)
L_{WA} Outlet	80	60	71	72	74	73	71	67	58	dB(A)
L_{WA} Surrounding	65	41	63	59	54	53	48	41	35	dB(A)



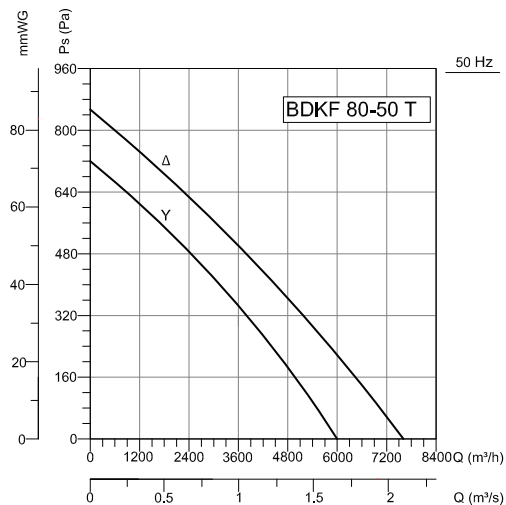
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L_{WA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L_{WA} Surrounding	63	40	60	57	52	51	46	38	35	dB(A)



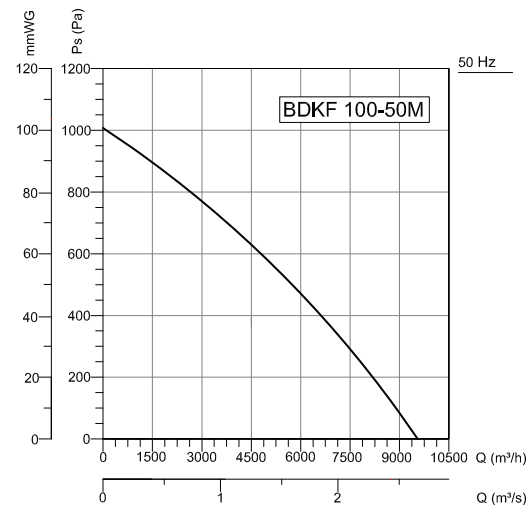
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	68	69	66	66	62	52	dB(A)
L_{WA} Outlet	79	60	71	71	73	74	71	38	55	dB(A)
L_{WA} Surrounding	65	41	62	58	56	56	49	42	36	dB(A)



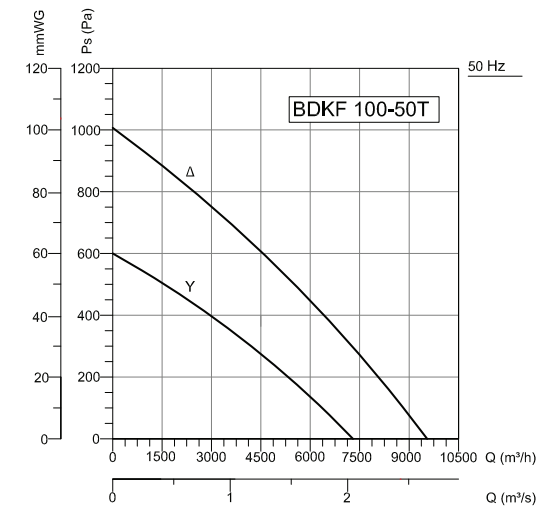
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	79	61	72	71	73	71	71	66	58	dB(A)
L_{WA} Outlet	84	66	75	76	77	79	75	70	61	dB(A)
L_{WA} Surrounding	71	45	68	64	61	61	60	54	43	dB(A)



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)



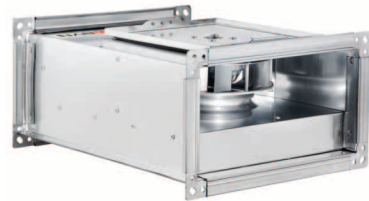
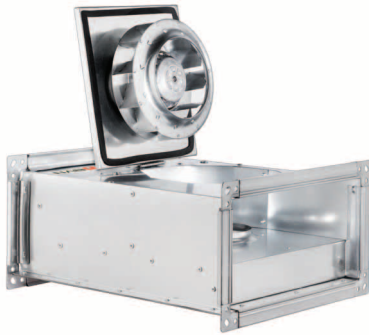
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	84	70	77	76	78	78	75	71	65	dB(A)
L_{WA} Outlet	89	71	80	81	82	83	80	74	65	dB(A)
L_{WA} Surrounding	72	58	69	64	62	60	56	52	50	dB(A)



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





BDKF-EC

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The models of Bdkf 30-15 / 70-40A are made of high quality galvanized steel which is resistant to corrosion. Bdkf 70-40B / 80-50 / 100-50 models are made of aluminum sheet. All models are equipped with EC motor with integrated speed control.

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. With a more efficient motor, system efficiency is increased and lower operating costs are ensured.

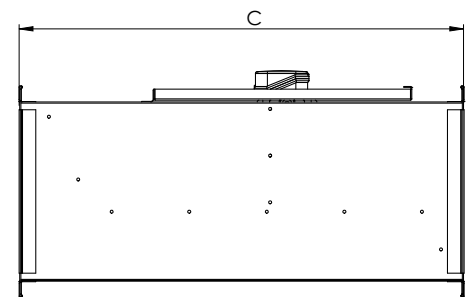
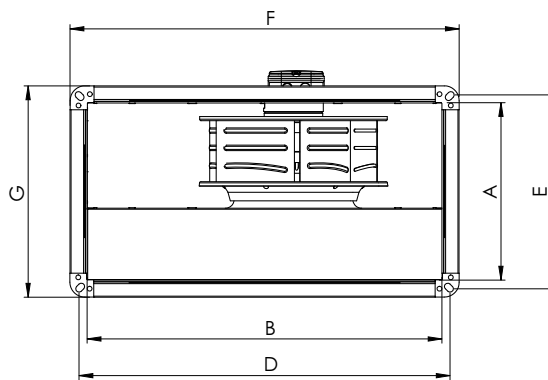
Speed Control

With EC motor integrated speed control, the desired speed can be achieved.

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

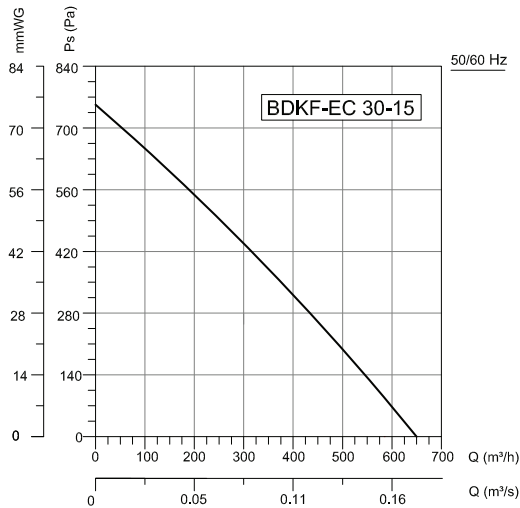


TYPE	A	B	C	D	E	F	G
BDKF-EC 30-15	150	300	400	320	170	350	200
BDKF-EC 40-20	200	400	500	420	220	450	250
BDKF-EC 50-25	250	500	565	520	270	550	300
BDKF-EC 60-30	300	600	750	620	320	650	350
BDKF-EC 60-35	350	600	750	620	370	650	400
BDKF-EC 70-40	400	700	800	720	420	750	450
BDKF-EC 80-50	500	800	920	820	520	850	560
BDKF-EC 100-50	500	1000	1050	1030	530	1060	560

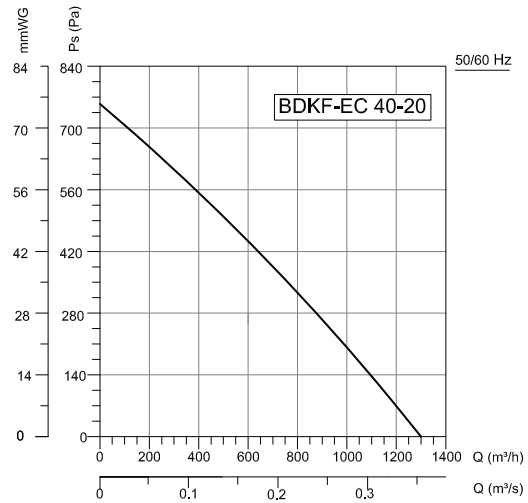
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	SPEED	AIR FLOW	MAX. PRESSURE	SOUND PRESSURE
	V	Hz	W	(A)	r.p.m	m ³ /h	Pa	dB(A)
BDKF-EC 30-15	220	50/60	98	0,74	3200	650	750	43
BDKF-EC 40-20	220	50/60	150	0,98	2945	1300	750	48
BDKF-EC 50-25	220	50/60	140	1,1	2400	1600	750	58
BDKF-EC 60-30	220	50/60	355	1,56	2050	2150	550	50
BDKF-EC 60-35	220	50/60	400	2,2	1900	3550	850	53
BDKF-EC 70-40	380	50/60	1000	1,5	1500	6500	650	56
BDKF-EC 80-50	380	50/60	870	1,46	1100	7000	450	64
BDKF-EC 100-50	380	50/60	770	1,3	850	8500	320	66

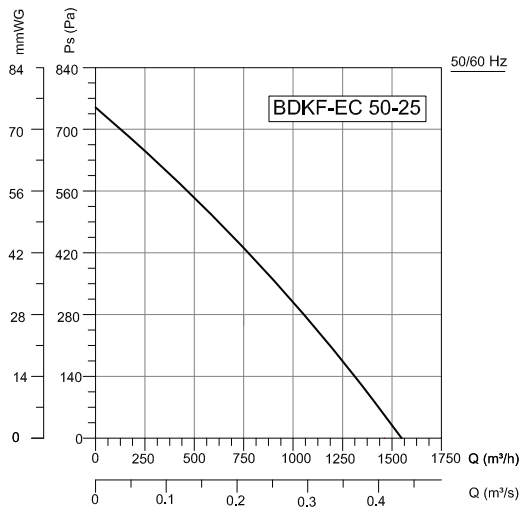
Sound Level Measured from 3m distance in room condition.



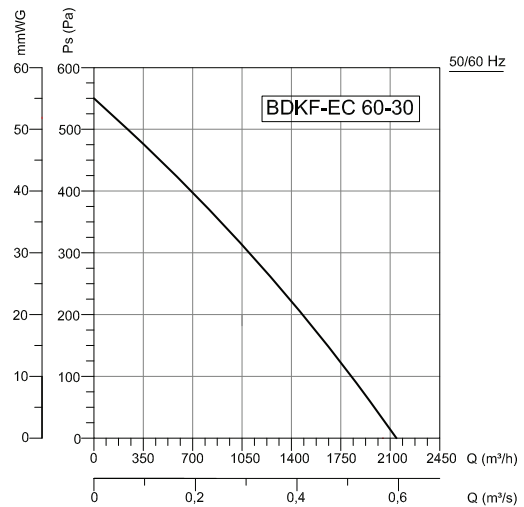
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	66	44	56	64	56	55	53	47	38	dB(A)
L_{WA} Outlet	69	48	53	66	63	61	58	51	43	dB(A)
L_{WA} Surrounding	50	26	33	47	44	42	41	35	27	dB(A)



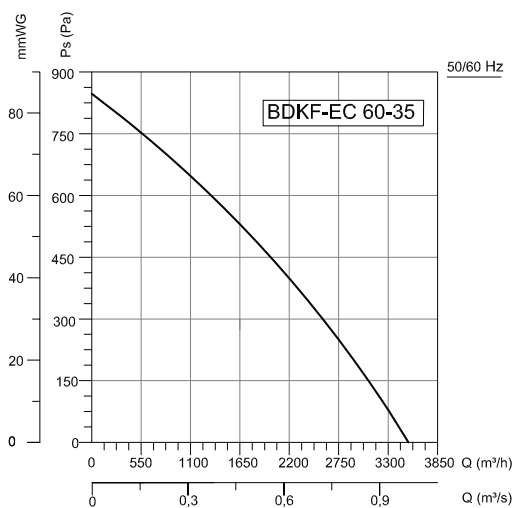
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	44	54	66	58	61	59	55	47	dB(A)
L_{WA} Outlet	72	44	53	67	64	63	66	61	58	dB(A)
L_{WA} Surrounding	55	20	34	53	45	44	44	38	35	dB(A)



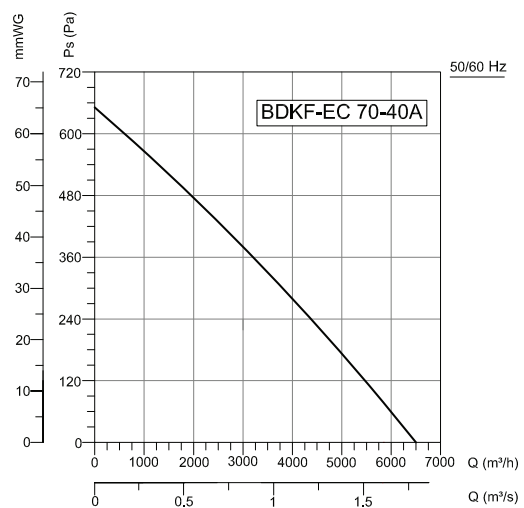
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{WA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{WA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



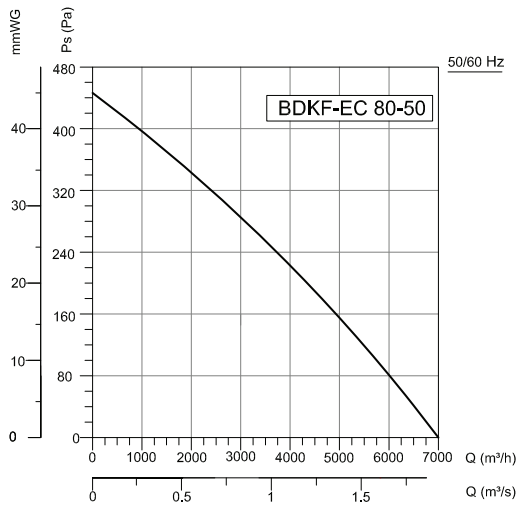
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	50	62	64	61	62	57	52	44	dB(A)
L_{WA} Outlet	72	49	60	65	68	65	63	58	46	dB(A)
L_{WA} Surrounding	57	35	47	54	52	47	44	39	32	dB(A)



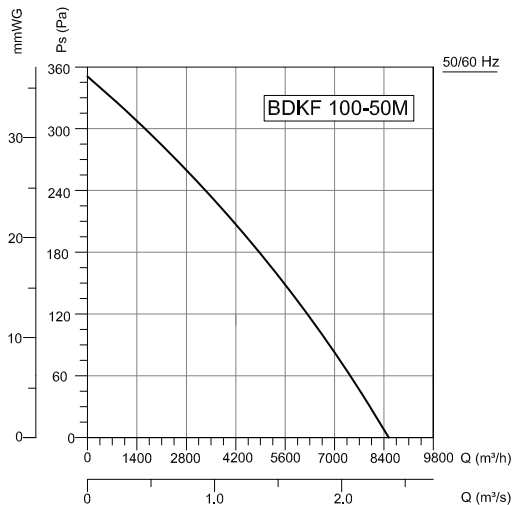
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{WA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{WA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	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)

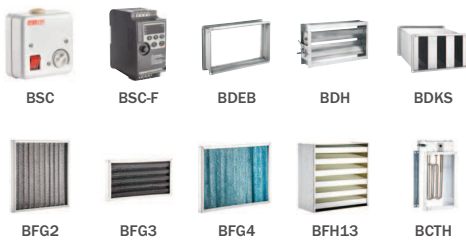


Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	79	61	72	71	73	71	71	66	58	dB(A)
L _{WA} Outlet	84	66	75	76	77	79	75	70	61	dB(A)
L _{WA} Surrounding	71	45	68	64	61	61	60	54	43	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	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





BKKF

SQUARE DUCT FANS / Backward Curved

Fan Components and Material Properties

The double-walled body with heat and sound insulation is manufactured from galvanized sheet metal. The fan of the Bkkf 400 is made of high quality galvanized steel which is resistant to corrosion. The fans of the Bkkf 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

The swing-out lid allows the product to be maintained effortlessly without removing the fan.

They work quietly thanks to isolation. Thanks to the removable panels, the air can be easily steered in the desired way. Speed can be adjusted with speed control devices.

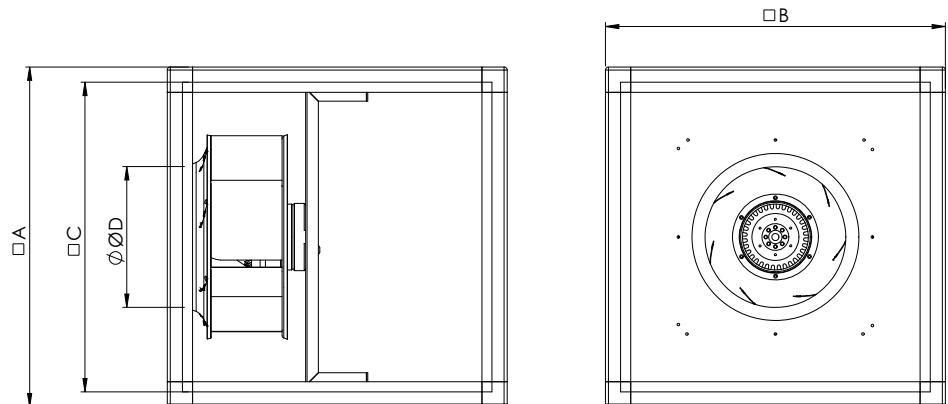
Speed Control

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 channel systems where the application area is limited.

Technical Drawing and Tables

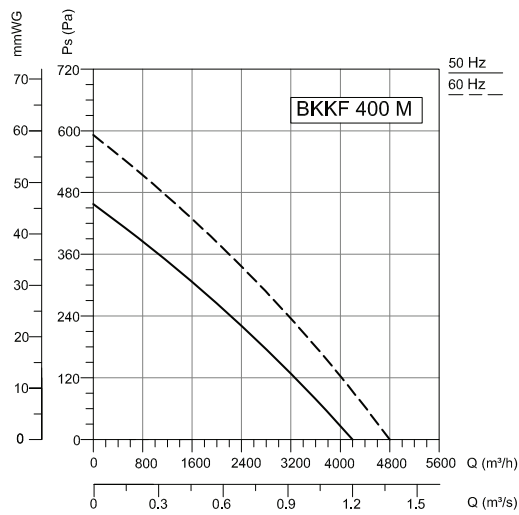


TYPE	A	B	C	D
BKKF 400 M	670	670	610	270
BKKF 450 M	670	670	610	283
BKKF 500 T	670	670	610	344
BKKF 560 T	800	800	740	382

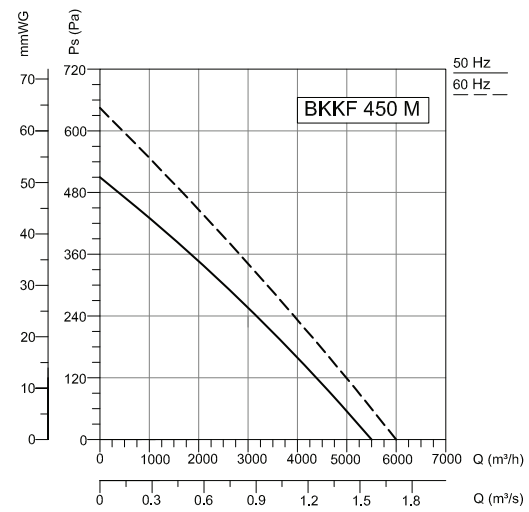
Dimensions are in (mm)

	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	V	Hz	W	(A)	(μF)	r.p.m	m ³ /h	dB(A)	Ins.cl.	IP	kg
BKKF 400 M	230	50/60	310/460	1,4/2	10	1400/1600	4200/4800	45	F	44	36
BKKF 450 M	230	50/60	480/745	2,5/3,5	10	1400/1550	5500/6000	48	F	44	40
BKKF 500 T	380 Δ/λ	50	960/530	2/1,1	-	1335/1050	7800/6100	52	F	44	51
BKKF 560 T	380 Δ/λ	50	1400/900	2,7/1,7	-	1250/950	9800/7450	55	F	44	65

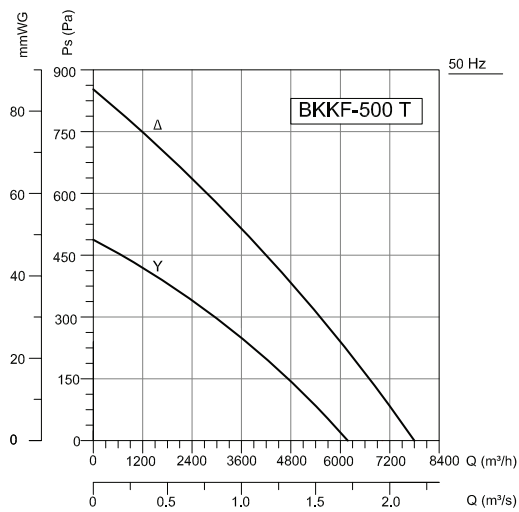
Sound Level Measured from 3m distance in room condition.



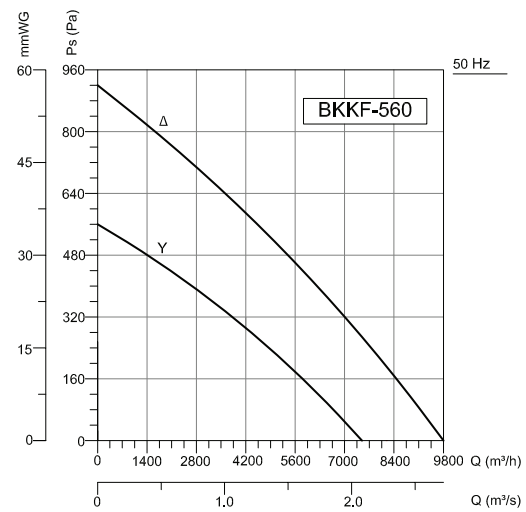
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	67	37	55	53	59	63	61	54	49	dB(A)
L_{WA} Outlet	68	38	56	55	60	64	62	56	51	dB(A)
L_{WA} Surrounding	52	18	43	44	43	48	46	38	33	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	42	57	58	64	66	67	61	54	dB(A)
L_{WA} Outlet	74	46	58	59	65	70	69	63	55	dB(A)
L_{WA} Surrounding	55	22	46	47	46	51	49	41	38	dB(A)

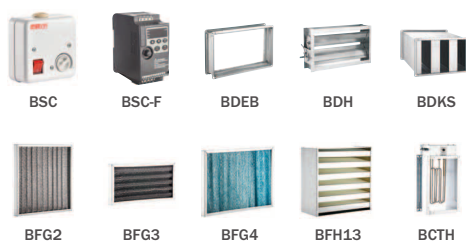


Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	79	48	64	64	69	74	75	71	62	dB(A)
L_{WA} Outlet	81	49	65	66	71	76	76	73	64	dB(A)
L_{WA} Surrounding	59	24	50	50	51	54	50	45	39	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	78	65	68	71	73	72	69	65	58	dB(A)
L_{WA} Outlet	80	67	68	74	75	74	70	66	60	dB(A)
L_{WA} Surrounding	63	50	52	57	58	56	54	50	40	dB(A)

Accessories





BSKF

RECTANGULAR DUCT FANS / Forward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. All models have an external rotor motor with a closed structure and have air transport at max.40°C.

Fan Structure

The fan blades are produced in an aerodynamic structure to provide forward flow and forward flow. It is designed to work between the rectangular channel.

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

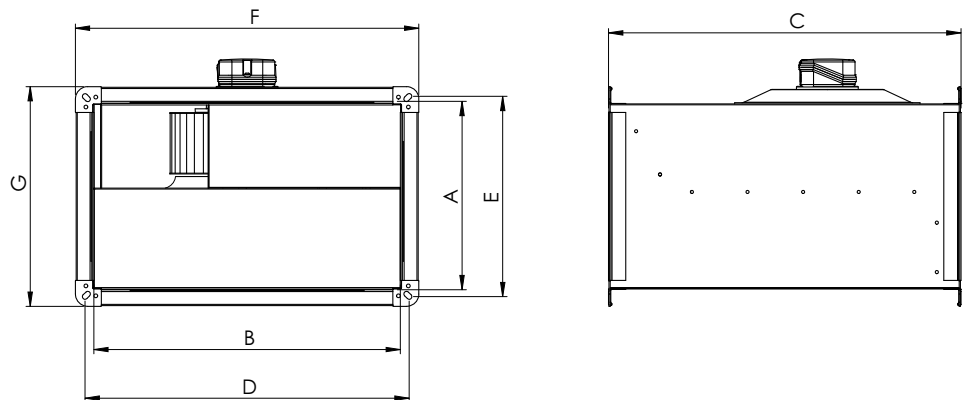
Optional control devices can be provided.

1 ~ Phase products can be controlled with linear voltage regulator (see BSC accessory). 3 ~ phase products can be controlled by frequency inverter (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. It is recommended to use barber with filter in dirty environments.

Technical Drawing and Tables

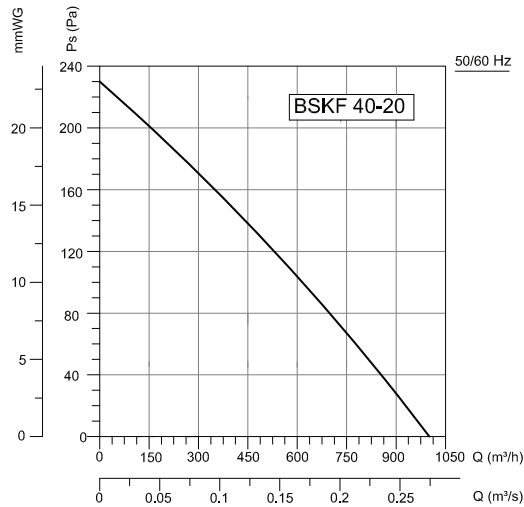


TYPE	A	B	C	D	E	F	G
BSKF 40-20	198	398	502	420	220	440	240
BSKF 50-25	248	498	532	520	270	540	290
BSKF 50-30	298	498	562	520	320	540	340
BSKF 60-30	298	598	642	620	320	640	340
BSKF 60-35	348	600	720	620	370	650	390

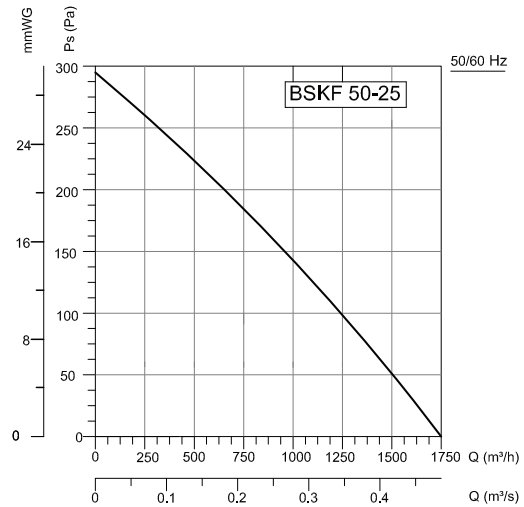
Dimensions are in (mm)

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
BSKF 40-20	230	50/60	230/315	1,15/1,41	6	1400/1590	990	53	F	44	14
BSKF 50-25	230	50/60	465/635	2/2,7	10	1300	1750	55	F	44	19
BSKF 50-30	230	50	675	3	10	1300	2100	58	F	44	23
BSKF 60-30	380 Δ/λ	50	1335/720	2,43/1,32	-	1200/850	2950/2090	60	F	44	36
BSKF 60-35	380 Δ/λ	50	1755/880	3,2/1,6	-	1200/800	4250/2830	62	F	44	44

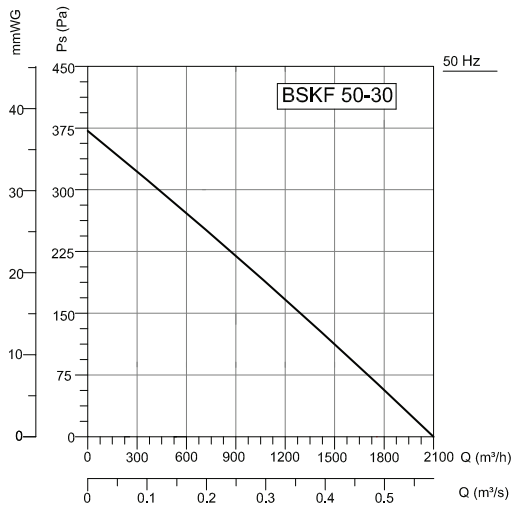
Sound Level Measured from 3m distance in room condition.



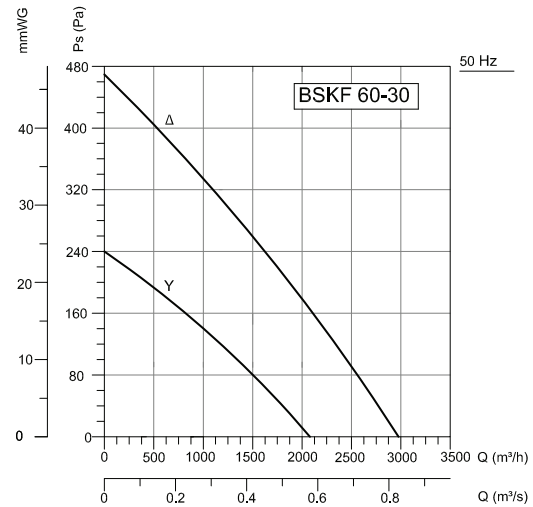
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	58	68	65	60	58	56	54	49	dB(A)
L_{WA} Outlet	73	54	65	67	65	66	62	60	55	dB(A)
L_{WA} Surrounding	60	35	47	57	53	52	45	42	38	dB(A)



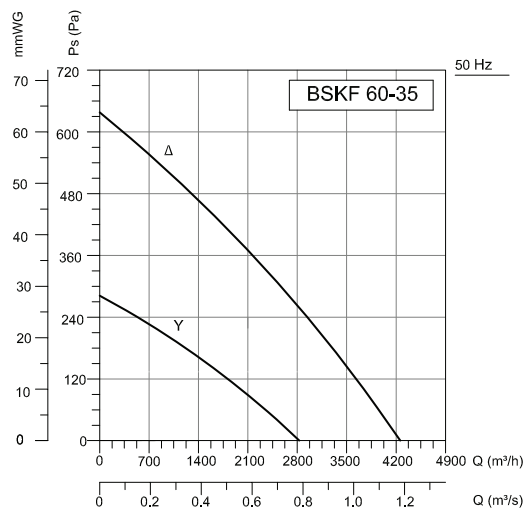
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	73	61	66	65	64	65	63	62	57	dB(A)
L_{WA} Outlet	76	57	63	65	67	71	70	68	66	dB(A)
L_{WA} Surrounding	62	39	50	53	54	56	52	50	55	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	76	66	71	65	64	67	67	66	62	dB(A)
L_{WA} Outlet	79	62	68	67	70	74	72	71	66	dB(A)
L_{WA} Surrounding	65	45	55	60	56	59	55	50	49	dB(A)

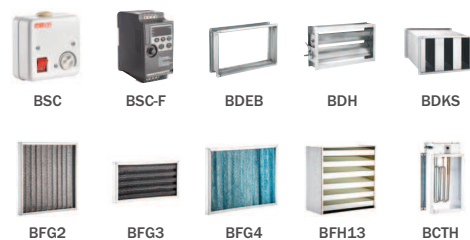


Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	78	71	71	67	66	71	71	68	63	dB(A)
L_{WA} Outlet	80	59	70	68	73	75	72	73	68	dB(A)
L_{WA} Surrounding	67	39	60	61	60	58	55	53	49	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	80	72	75	67	68	73	72	69	65	dB(A)
L_{WA} Outlet	83	65	72	71	75	79	76	74	70	dB(A)
L_{WA} Surrounding	69	53	63	64	60	61	56	53	48	dB(A)

Accessories





BDKF-R

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The fans of the Bdkf-r 315-355-400 are made of high quality galvanized steel which is resistant to corrosion. The fans of the Bdkf-r 450-500-560 models are made of aluminum sheet. All models use an asynchronous motor and the motor is out of airflow. The device is capable of carrying air at max. 120°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

Since the motor is out of airflow, it is resistant to high temperature. 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.

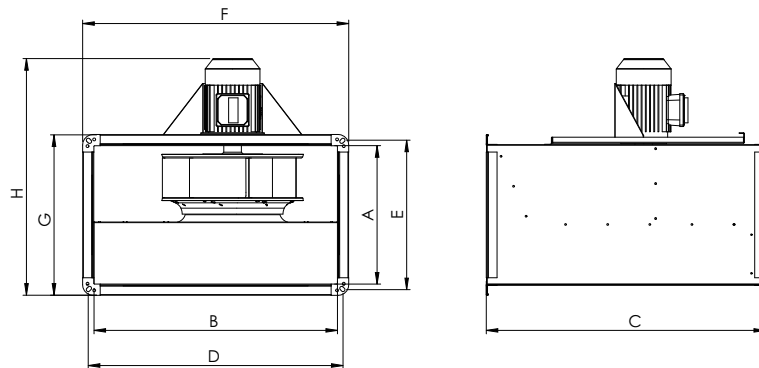
Speed Control

Optional control devices can be provided. Speed control 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. 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
BDKF-R 315	350	600	750	620	370	650	400	550
BDKF-R 355	350	600	750	620	370	650	400	550
BDKF-R 400	400	700	800	720	420	750	450	630
BDKF-R 450	400	700	800	720	420	750	450	630
BDKF-R 500	500	800	920	820	520	850	560	780
BDKF-R 560	500	1000	1050	1030	530	1060	560	780

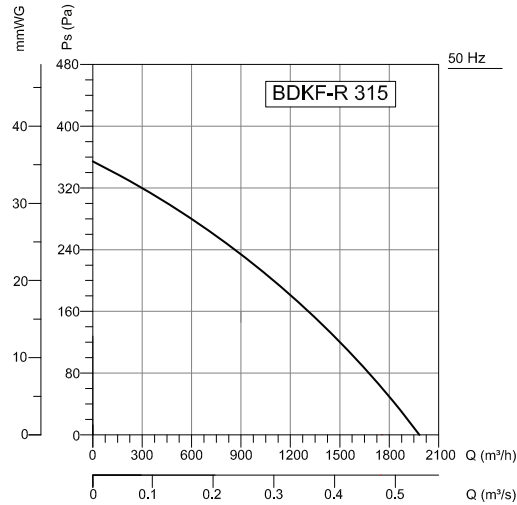
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	kW	(A)	(μF)	r.p.m	m ³ /h	dB(A)	Ins.cl.	IP	kg
BDKF-R 315 M	230	50	0,25	2,1	10	1380	2000	53	F	55	35
BDKF-R 355 M	230	50	0,25	2,1	10	1380	3000	58	F	55	36
BDKF-R 400 M	230	50	0,37	3,4	15	1390	4100	56	F	55	49
BDKF-R 450 M	230	50	0,55	4,5	20	1395	5500	58	F	55	52
BDKF-R 500 M	230	50	1,1	7,5	35	1410	8100	64	F	55	74
BDKF-R 560 M	230	50	2,2	14,2	50	1420	10500	66	F	55	91
BDKF-R 315 T	380	50	0,25	0,87	-	1380	2000	53	F	55	35
BDKF-R 355 T	380	50	0,25	0,87	-	1380	3000	58	F	55	36
BDKF-R 400 T	380	50	0,37	1,2	-	1390	4100	56	F	55	49
BDKF-R 450 T	380	50	0,55	1,6	-	1395	5500	58	F	55	52
BDKF-R 500 T	380	50	1,1	2,6	-	1410	8100	64	F	55	74
BDKF-R 560 T	380	50	2,2	4,9	-	1420	10500	66	F	55	91

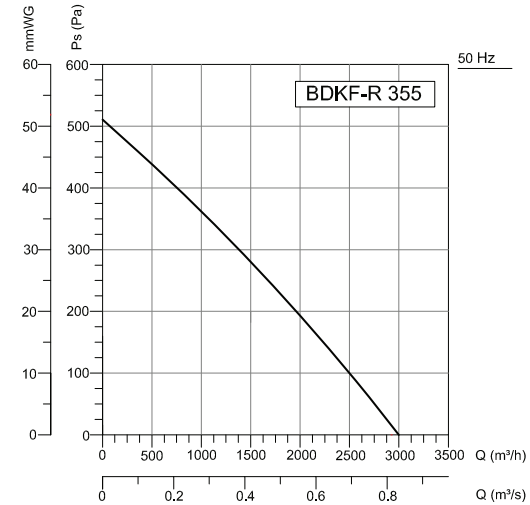
Sound Level Measured from 3m distance in room condition.

Accessories

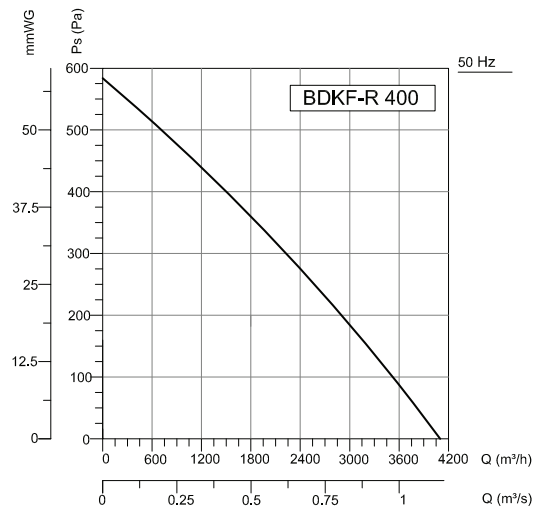




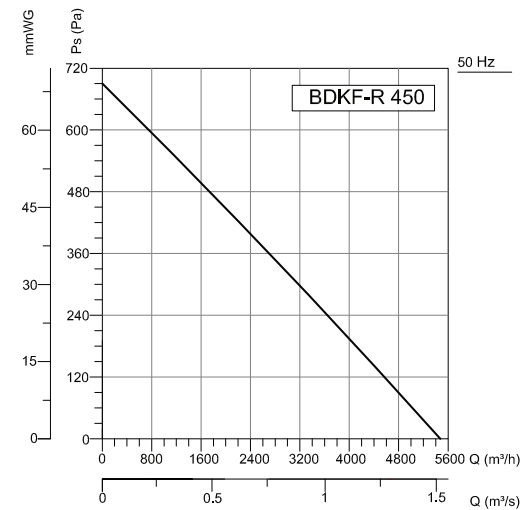
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L _{WA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L _{WA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



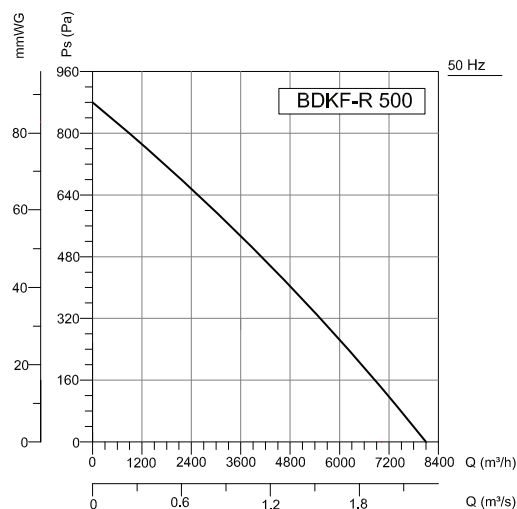
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L _{WA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L _{WA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



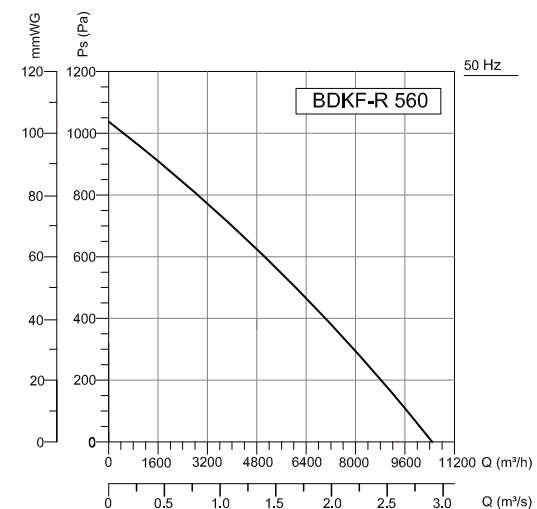
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L _{WA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L _{WA} Surrounding	63	40	60	57	52	51	46	38	35	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	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	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	73	58	70	65	63	61	58	54	50	dB(A)



BSKF-R

RECTANGULAR DUCT FANS / Forward Curved

Fan Components and Material Properties

The rectangular body and the impellers of the fans are made of high quality galvanized steel which is resistant to corrosion. The BSKF-R is equipped with an asynchronous motor outside the air flow. The device is capable of carrying air at max.120°C.

Fan Structure

The fan blades are produced in an aerodynamic structure to provide forward flow and forward flow. It is designed to work between the rectangular channel.

Benefits

Since the motor is out of airflow, it is resistant to high temperature. 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.

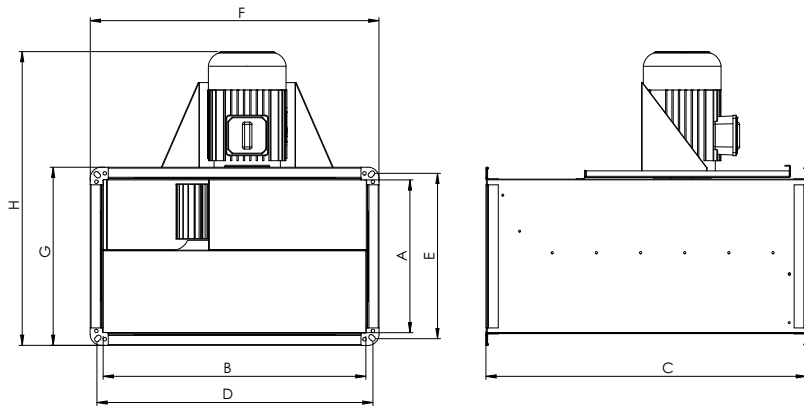
Speed Control

Optional control devices can be provided. 3 ~ phase products with frequency inverter speed control can be done. (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. It is able to carry air at higher temperatures due to the motor being out of airflow. It is recommended to use bar-bar with filter in dirty environments.

Technical Drawing and Tables

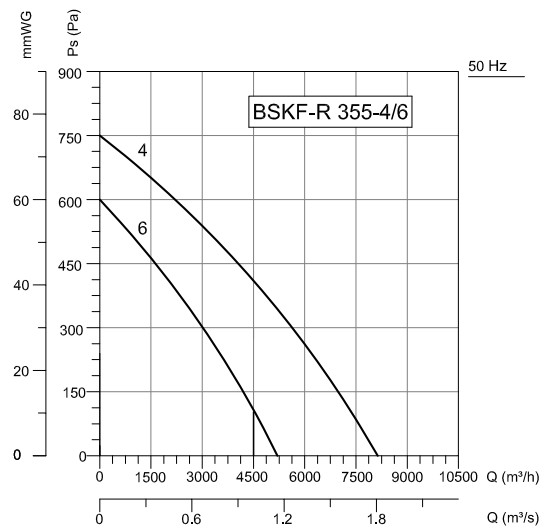
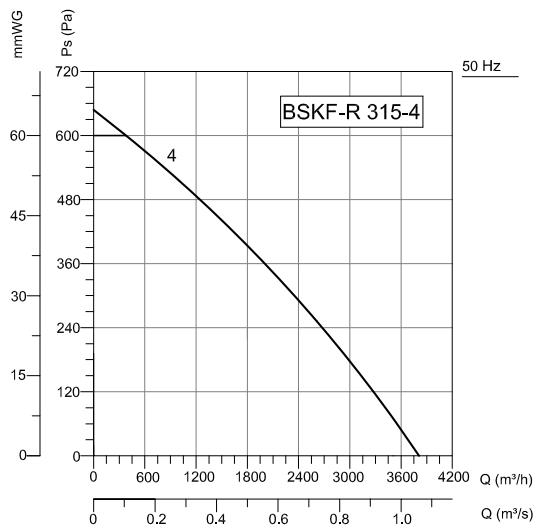
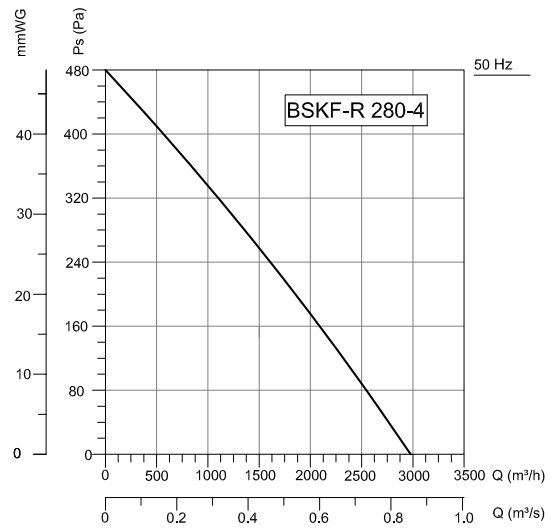
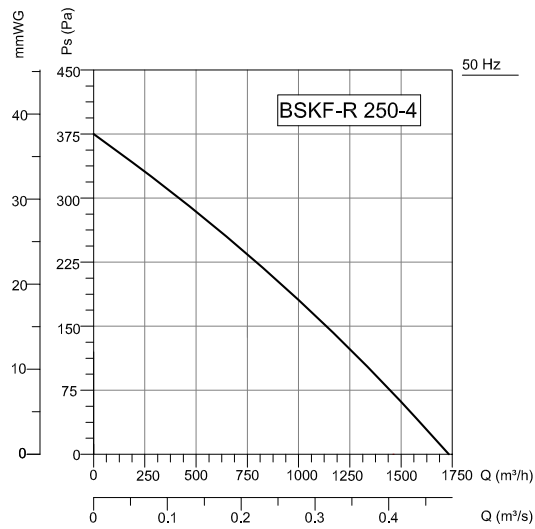
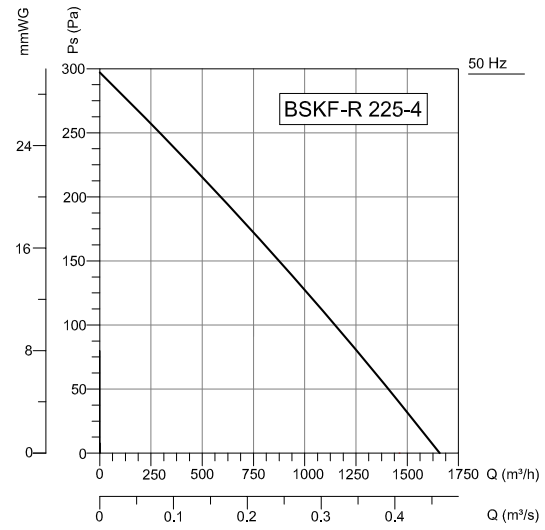
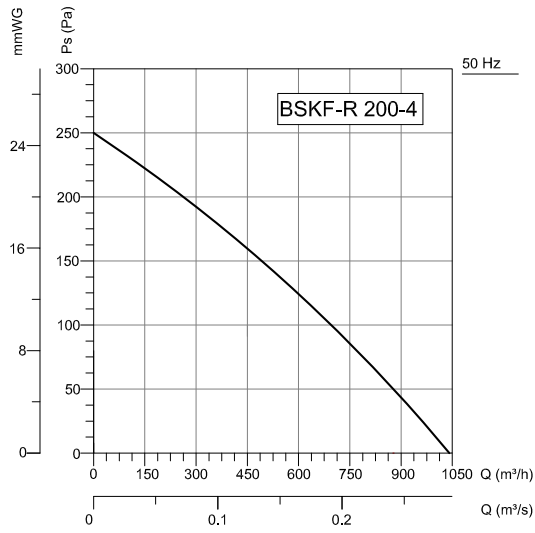


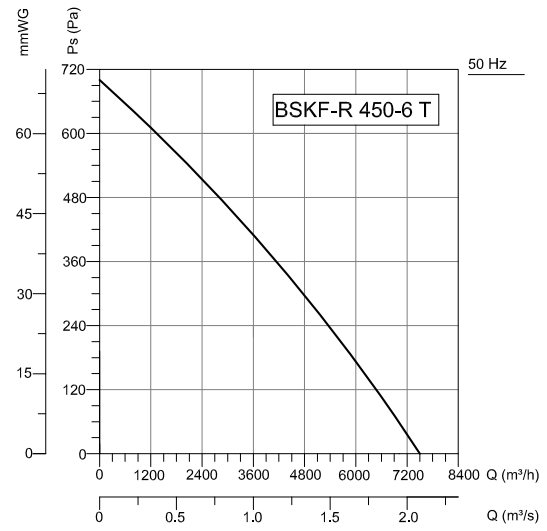
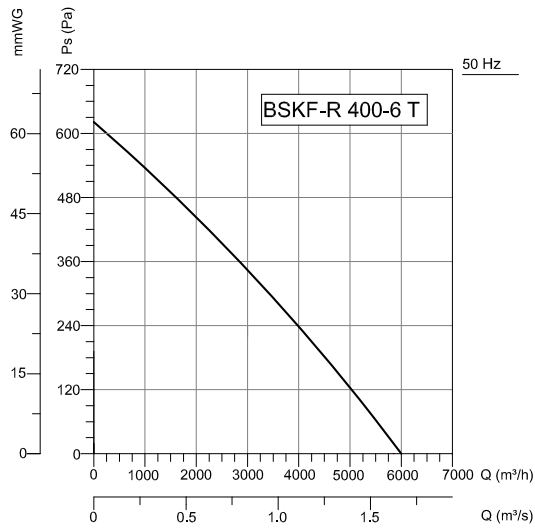
TYPE	A	B	C	D	E	F	G	H
BSKF-R 200	200	400	500	420	220	450	250	469
BSKF-R 225	250	500	560	520	270	550	300	519
BSKF-R 250	300	500	560	520	320	550	350	589
BSKF-R 280	300	600	710	620	320	650	350	589
BSKF-R 315	350	600	710	620	370	650	400	684
BSKF-R 355	400	700	780	720	420	750	450	766
BSKF-R 400	500	800	880	820	520	850	550	866
BSKF-R 450	500	1000	980	1020	520	1050	550	886

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
BSKF-R 200-4 M	230	50	0,25	2,1	10	1390	1000	53	F	55	22
BSKF-R 225-4 M	230	50	0,37	3,4	15	1400	1673	55	F	55	35
BSKF-R 250-4 M	230	50	0,55	4,5	20	1365	1740	55	F	55	40
BSKF-R 280-4 M	230	50	0,75	4,6	30	1405	2942	60	F	55	43
BSKF-R 315-4 M	230	50	1,5	9,3	50	1410	4050	62	F	55	55
BSKF-R 355-4 M	230	50	2,2	14,2	50	1430	8000	64	F	55	85
BSKF-R 200-4 T	380	50	0,25	0,87	-	1380	1000	53	F	55	22
BSKF-R 225-4 T	380	50	0,37	1,2	-	1390	1673	55	F	55	35
BSKF-R 250-4 T	380	50	0,55	1,6	-	1365	1740	55	F	55	40
BSKF-R 280-4 T	380	50	0,75	2,1	-	1405	2942	60	F	55	43
BSKF-R 315-4 T	380	50	1,5	3,5	-	1410	4050	62	F	55	55
BSKF-R 355-4 T	380	50	2,2	4,9	-	1420	8000	64	F	55	85
BSKF-R 355-6 T	380	50	1,1	2,9	-	930	5200	53	F	55	85
BSKF-R 400-6 T	380	50	1,5	3,6	-	945	6000	55	F	55	92
BSKF-R 450-6 T	380	50	2,2	5,4	-	950	7500	58	F	55	120

Sound Level Measured from 3m distance in room condition.





Accessories



BSK-F



BDEB



BDH



BDKS



BFG2



BFG3



BFG4



BFH13



BCTH





BDKF-R EX PROOF

RECTANGULAR DUCT FANS / Backward Curved

Fan Components and Material Properties

Rectangular body is manufactured from galvanized steel sheet. The fans of the Bdkf-r 315-355-400 are made of high quality galvanized steel which is resistant to corrosion. The fans of the Bdkf-r 450-500-560 models are made of aluminum sheet. All models are equipped with Ex Proof asynchronous motor. Suction flange is made of copper material. The motor is out of airflow. The device is capable of carrying air at max.120°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.

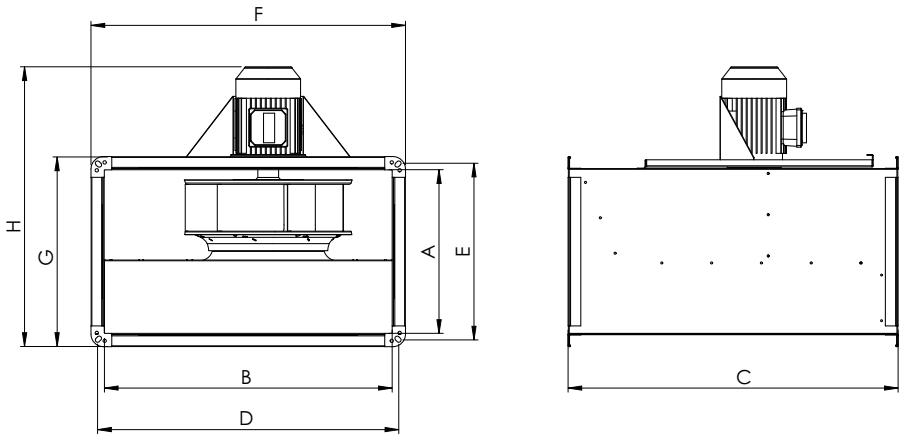
Benefits

Designed to be non-sparking. Since the motor is out of airflow, it is resistant to high temperature. 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.

Usage Areas

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	H
BDKF-R-EX 315 T	350	600	750	620	370	650	400	550
BDKF-R-EX 355 T	350	600	750	620	370	650	400	650
BDKF-R-EX 400 T	400	700	800	720	420	750	450	630
BDKF-R -EX 450 T	400	700	800	720	420	750	450	630
BDKF-R-EX 500 T	500	800	920	820	520	850	560	780
BDKF-R-EX 560 T	500	1000	1050	1030	530	1060	560	780

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
BDKF-R-EX 315 T	380	50	0,25	0,87	-	1380	2000	53	F	55	35
BDKF-R-EX 355 T	380	50	0,25	0,87	-	1380	3000	58	F	55	36
BDKF-R-EX 400 T	380	50	0,37	1,2	-	1390	4100	56	F	55	49
BDKF-R -EX 450 T	380	50	0,55	1,6	-	1395	5500	58	F	55	52
BDKF-R-EX 500 T	380	50	1,1	2,6	-	1410	8100	64	F	55	74
BDKF-R-EX 560 T	380	50	2,2	4,9	-	1420	10500	66	F	55	91

Sound Level Measured from 3m distance in room condition.

Accessories



BSC-F

BDEB

BDH

BDKS

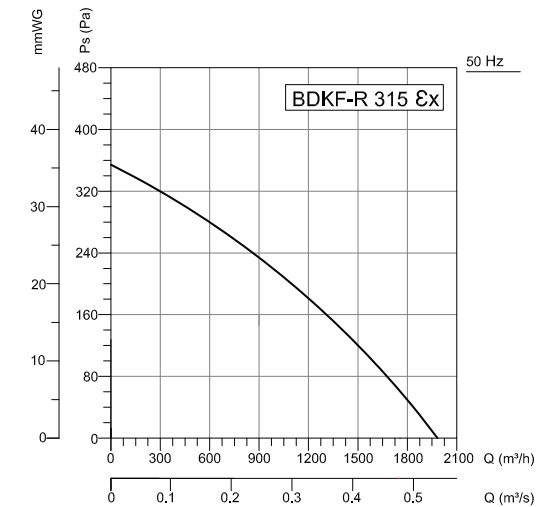
BFG2

BFG3

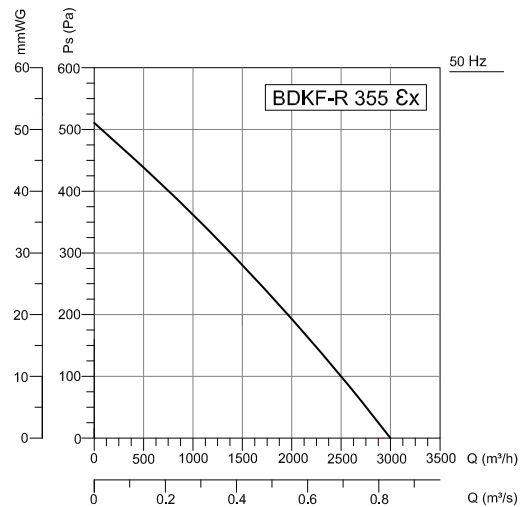
BFG4

BFH13

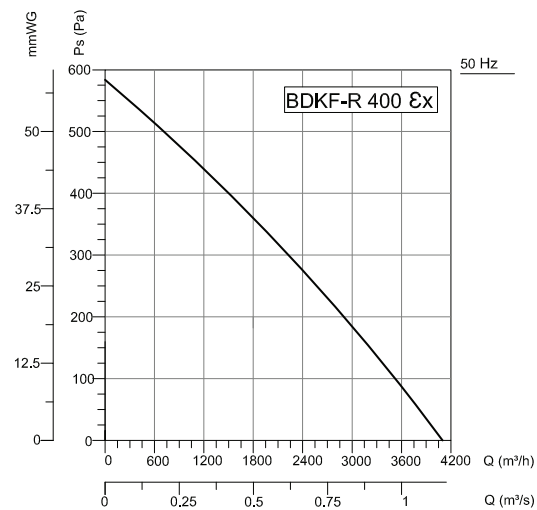
BCTH



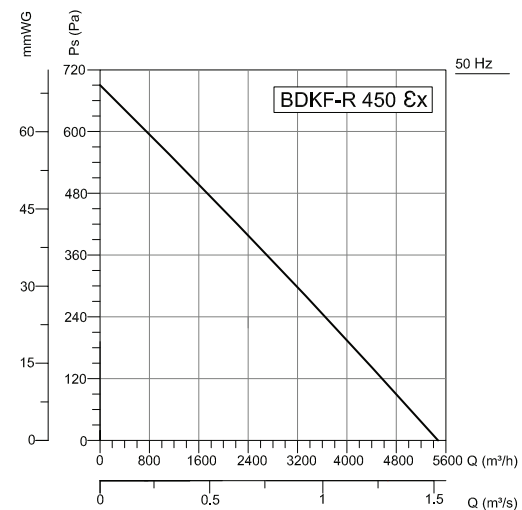
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{wA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{wA} Surrounding	60	27	57	53	50	49	48	49	37	dB(A)



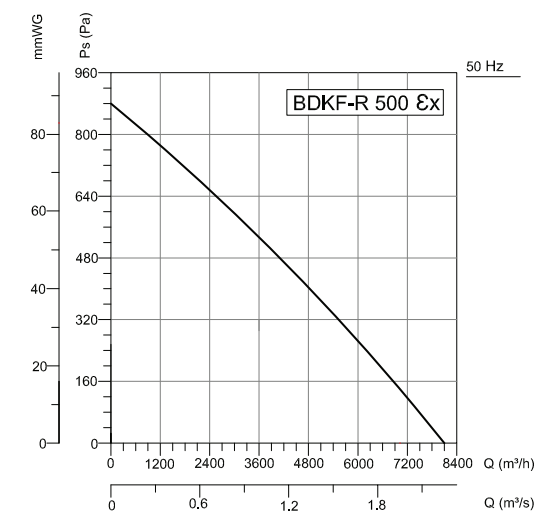
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{wA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{wA} Surrounding	65	33	40	59	57	59	58	50	47	dB(A)



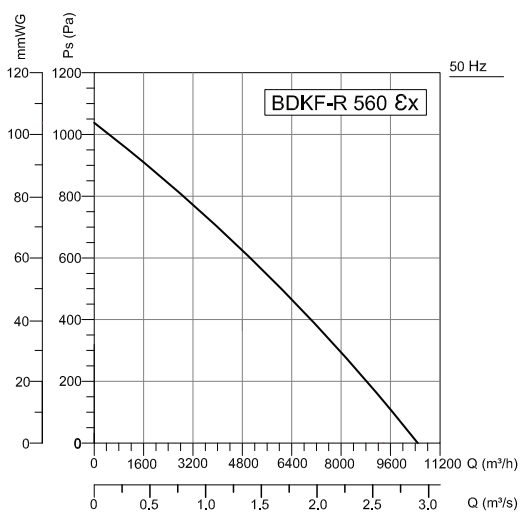
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L_{wA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L_{wA} Surrounding	63	40	60	57	52	51	46	38	35	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	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	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	73	58	70	65	63	61	58	54	50	dB(A)



BKEF-R

KITCHEN EXHAUST FANS / Backward Curved

Fan Components and Material Properties

The double-walled body with heat and sound insulation is manufactured from galvanized sheet metal. The fan of the Bkef-R 400 is made of high quality galvanized steel which is resistant to corrosion. The fans of the Bkef-r 450-500-560 models are made of aluminum sheet. All models use an asynchronous motor and 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.

*Filtered applications are optional. Please contact BVN representatives.

Benefits

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

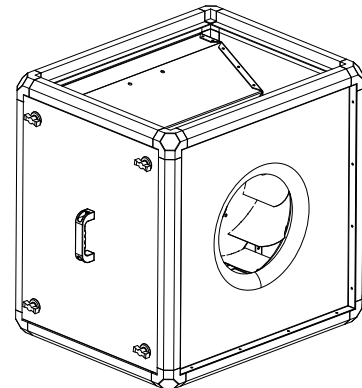
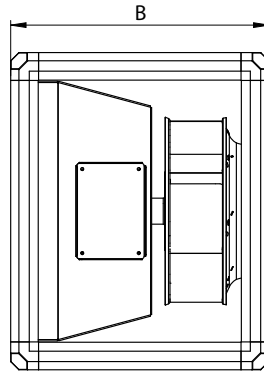
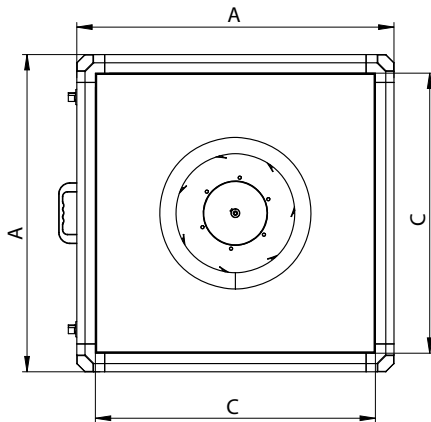
Speed Control

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

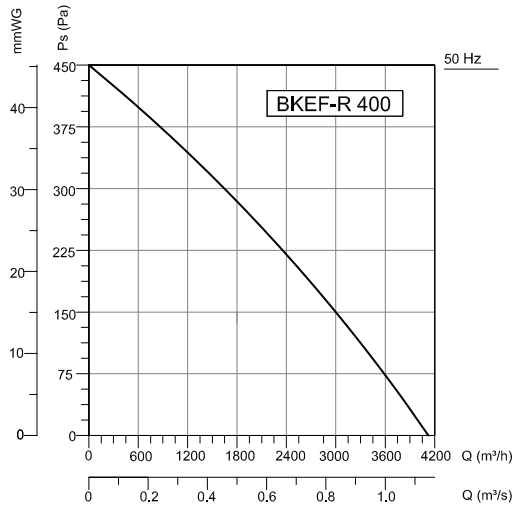


TYPE	A	B	C
BKEF-R 400	683	556	603
BKEF-R 450	683	572	603
BKEF-R 500	683	623	603
BKEF-R 560	813	690	733

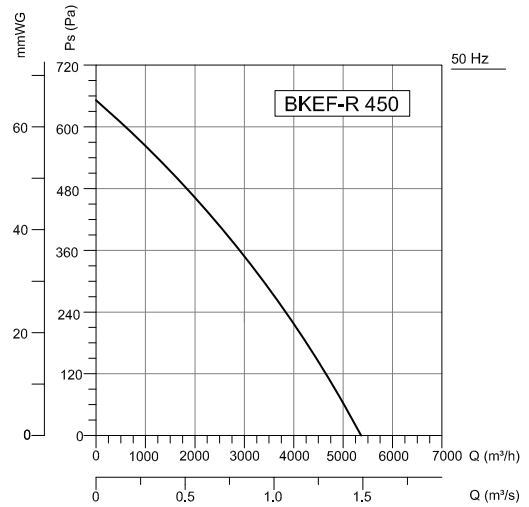
Dimensions are in (mm)

	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	V	Hz	kW	(A)	(μF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BKEF-R 400M	230	50	0,37	3,4	15	1390	4100	45	F	55	52
BKEF-R 450M	230	50	0,55	4,5	20	1365	5400	48	F	55	65
BKEF-R 500M	230	50	1,1	7,5	35	1410	8200	52	F	55	77
BKEF-R 560M	230	50	2,2	14,2	50	1420	10800	55	F	55	95
BKEF-R 400T	380	50	0,37	1,2	-	1390	4100	45	F	55	52
BKEF-R 450T	380	50	0,55	1,6	-	1365	5400	48	F	55	65
BKEF-R 500T	380	50	1,1	2,6	-	1410	8200	52	F	55	77
BKEF-R 560T	380	50	2,2	4,9	-	1420	10800	55	F	55	95

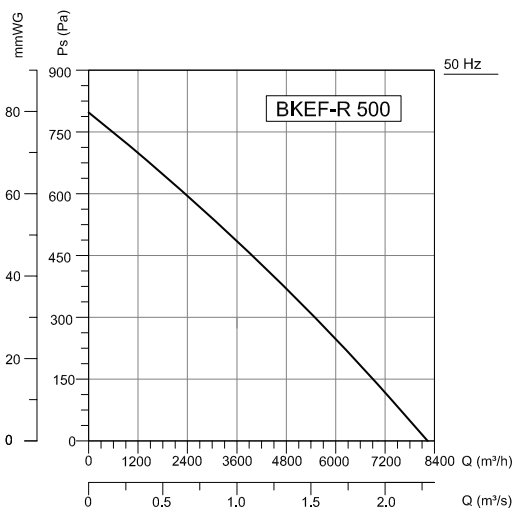
Sound Level Measured from 3m distance in room condition.



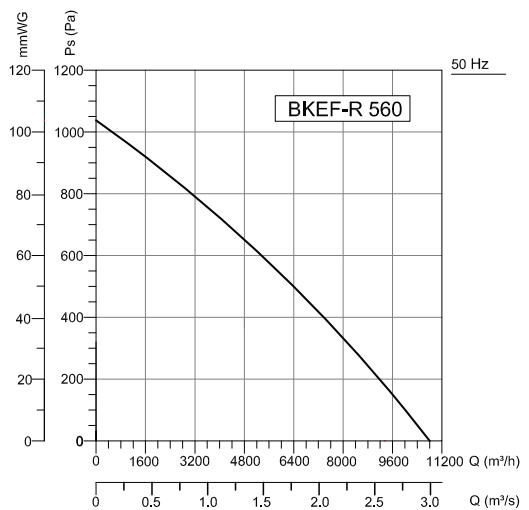
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L _{WA} Outlet	70	57	59	63	65	64	61	56	49	dB(A)
L _{WA} Surrounding	52	39	41	45	47	46	43	38	31	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	57	59	63	65	64	61	46	49	dB(A)
L _{WA} Outlet	72	59	61	65	67	66	63	58	51	dB(A)
L _{WA} Surrounding	55	42	44	48	50	49	46	41	34	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	61	63	67	69	68	65	60	53	dB(A)
L _{WA} Outlet	76	63	65	69	71	70	67	62	55	dB(A)
L _{WA} Surrounding	59	46	48	52	54	53	50	45	38	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	63	65	69	71	70	67	62	55	dB(A)
L _{WA} Outlet	77	67	66	70	71	71	68	63	56	dB(A)
L _{WA} Surrounding	62	50	52	55	57	56	49	53	42	dB(A)

Accessories



BSC-F



BDEB



BDH



BDKS



BFG2



BFG3



BFG4



BFH13



BCTH



BKEF-RH

KITCHEN EXHAUST FANS / Backward Curved - High Pressure

Fan Components and Material Properties

The double-walled body with heat and sound insulation is manufactured from galvanized sheet metal. 25 mm thick mineral wool was applied for sound and heat insulation. All models of the fan can be removed and installed. All models use asynchronous motor and the motor is out of air flow. The device is capable of carrying air at max.120°C.

Fan Structure

Electrostatic painted and welded plug fan is used. The fan blades are aerodynamically curved and provide regular flow. It is suitable to operate at high speed as it uses a welded plug fan.

*Filtered applications are optional. Please contact BVN representatives.

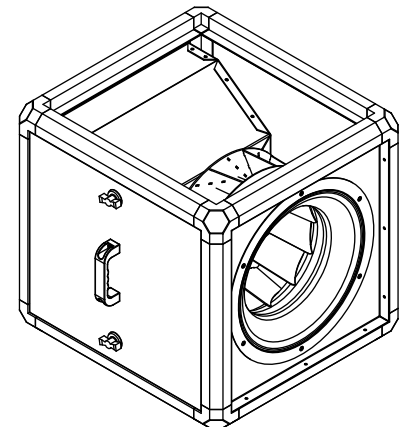
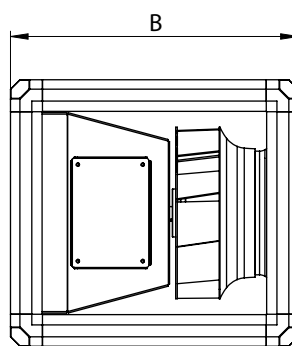
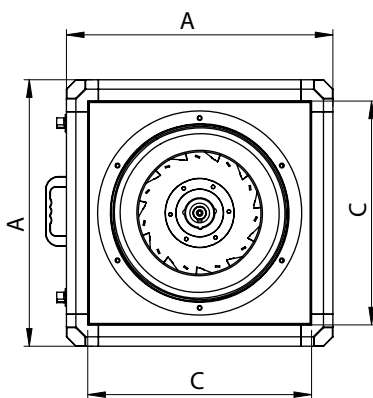
Benefits

Since the motor is out of airflow, it is resistant to high temperature. It has high performance and high efficiency because it works at high speed. Thanks to the removable panels, smoke can be easily steered. Right-left-top can be changed in three different ways. Water drainage feature. They work quietly thanks to isolation. Occasionally requires wheel cleaning. Speed can be adjusted with speed control devices.

Usage Areas

In restaurants with dense oil like greaseproof environments, it is possible to use commercially available commercial kitchen etc. with smoke trap and long channel distance. Used in environments. 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
BKEF-RH 280	500	500	420
BKEF-RH 315	500	540	420

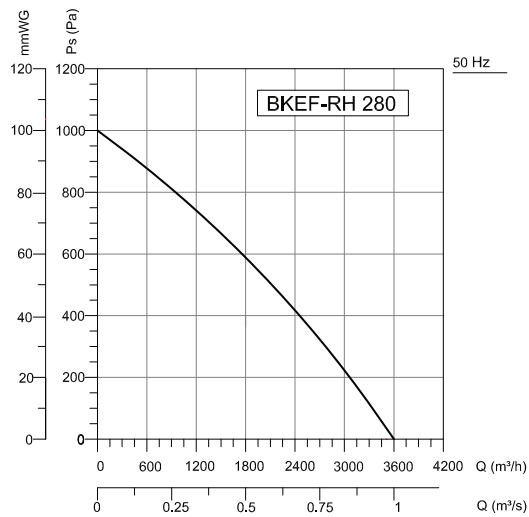
Dimensions are in (mm)

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-RH 280M	230	50	0,75	5	30	2840	3600	65	F	55	38
BKEF-RH 315M	230	50	1,5	9,8	40	2865	5000	68	F	55	41
BKEF-RH 280T	380	50	0,75	1,8	-	2840	3600	65	F	55	38
BKEF-RH 315T	380	50	1,5	3,3	-	2865	5000	68	F	55	41

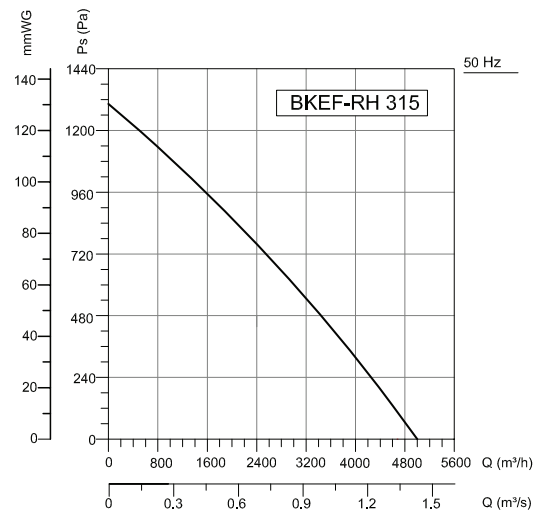
Sound Level Measured from 3m distance in room condition.

Accessories



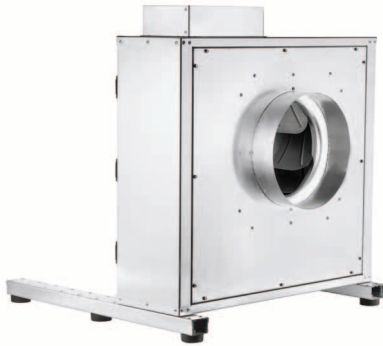


Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	86	72	74	78	80	79	76	71	74	dB(A)
L _{WA} Outlet	86	76	75	79	80	80	77	72	65	dB(A)
L _{WA} Surrounding	71	59	61	64	66	65	58	62	51	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	90	76	78	82	84	84	80	75	68	dB(A)
L _{WA} Outlet	90	80	79	83	84	84	82	76	69	dB(A)
L _{WA} Surrounding	75	63	65	68	70	69	62	66	55	dB(A)





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.

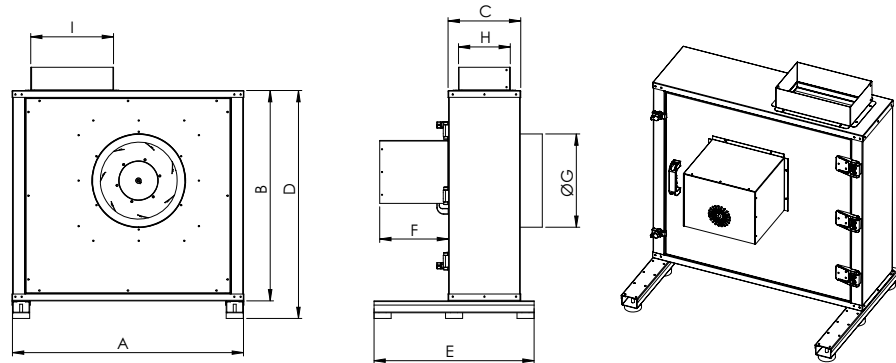
Speed Control

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)

	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	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



BSC-F

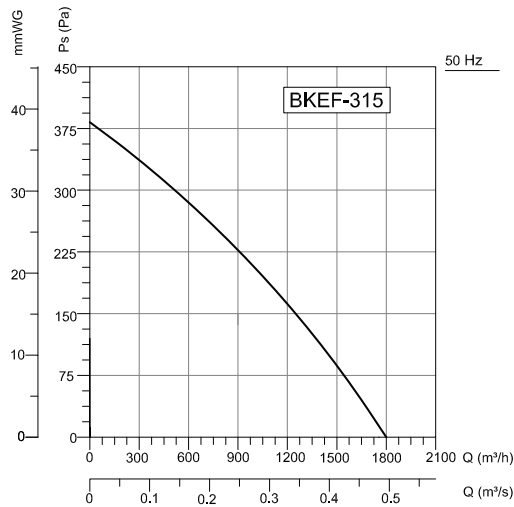
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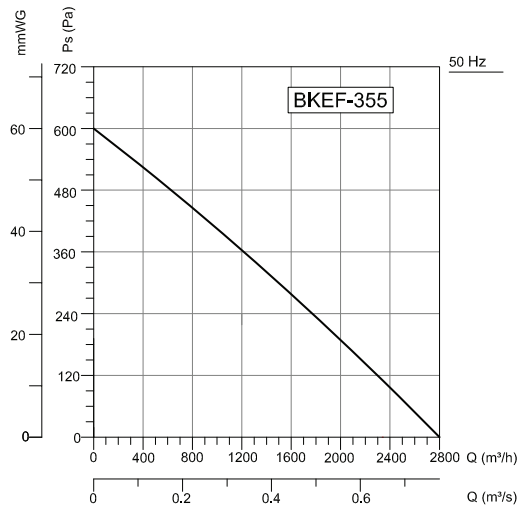
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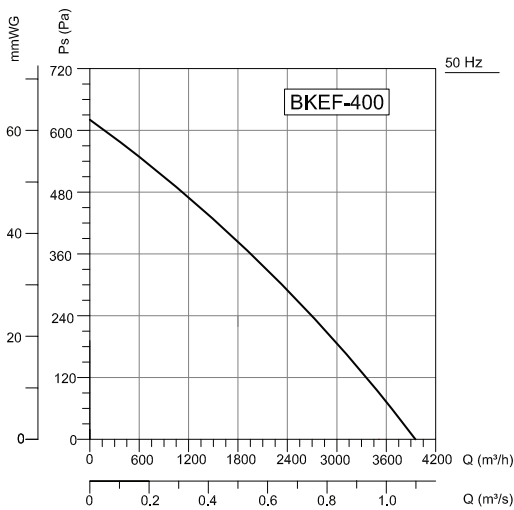
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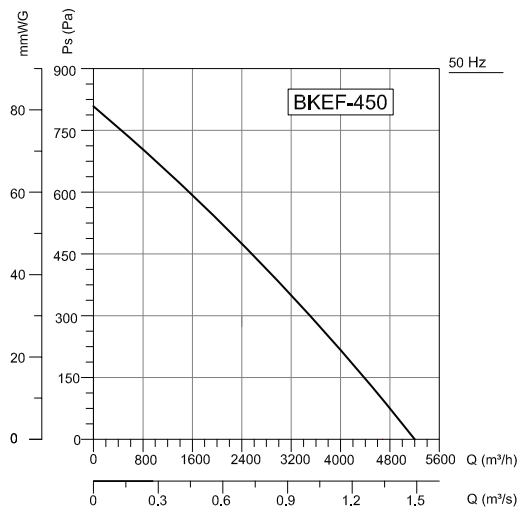
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	78	74	73	68	66	62	56	53	53	dB(A)
L _{WA} Outlet	80	76	75	70	67	64	58	55	55	dB(A)
L _{WA} Surrounding	60	56	55	50	48	44	38	35	35	dB(A)



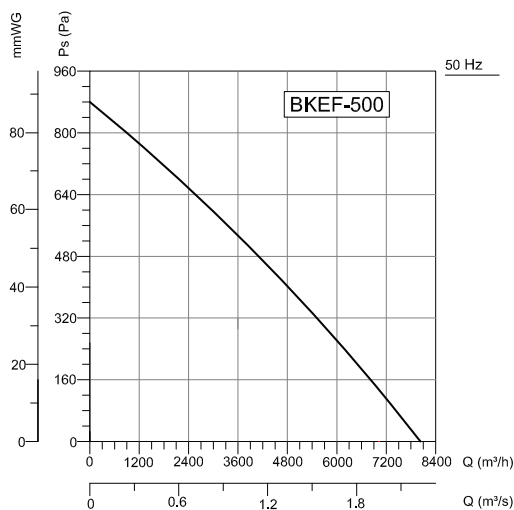
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	82	78	77	72	70	66	60	60	57	dB(A)
L _{WA} Outlet	84	80	79	74	72	68	62	59	59	dB(A)
L _{WA} Surrounding	64	60	59	54	52	48	42	39	39	dB(A)



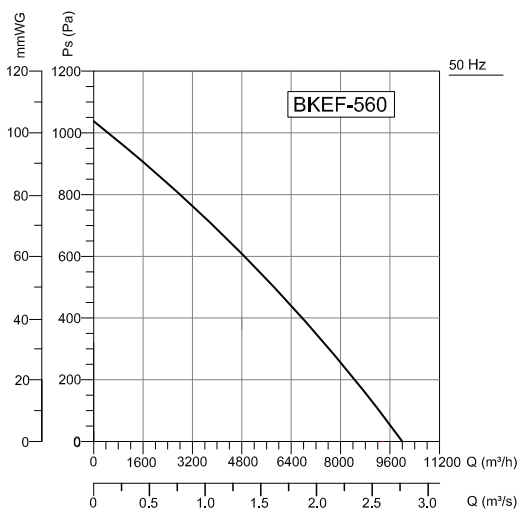
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	83	79	78	73	71	67	61	58	58	dB(A)
L _{WA} Outlet	85	81	80	75	73	69	63	60	60	dB(A)
L _{WA} Surrounding	65	61	60	55	53	49	43	40	40	dB(A)



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)



BKEF-T

KITCHEN FANS / Forward Curved

Fan Components and Material Properties

The rectangular body and the impellers of the fans are made of high quality galvanized steel which is resistant to corrosion. Motor protection cover. The BSKF-R is equipped with an asynchronous motor outside the air flow. The device is capable of carrying air at max.120°C.

Fan Structure

Double-walled galvanized body and galvanized forward inclined fan impeller. The fan blades are forward-curved, combined with the plug-in technique and produced in an aerodynamic manner to ensure regular flow. It is designed to work between the rectangular channel. Opening direction interchangeable cover is available.

Benefits

Since the motor is out of airflow, it is resistant to high temperature. The swing-out lid allows the product to

be maintained effortlessly without removing the fan. The housing with fan connection and anti-vibration mountings are included in the isolated base frame. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices. 50 mm thick mineral wool was applied for sound and heat insulation. Water drainage feature.

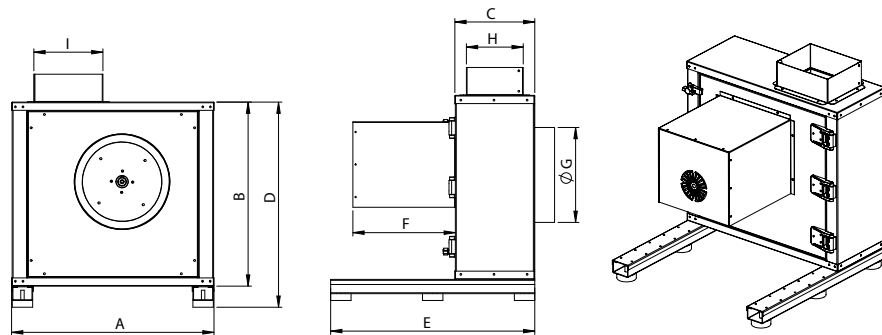
Speed Control

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

Usage Areas

It is able to carry air at higher temperatures due to the motor being out of airflow. It should be used with a filter in kitchens that do not contain oil particles. The kitchen can also be used for ambient air ventilation. In order to achieve long service life, fan blade cleaning should be considered.

Technical Drawing and Tables



TYPE	A	B	C	D	E	F	G	H	I
BKEF-T 200	460	415	210	475	500	240	200	145	145
BKEF-T 225	495	460	210	520	500	240	210	145	165
BKEF-T 250	535	480	230	545	550	300	250	165	180
BKEF-T 280	595	540	235	605	600	300	280	170	205
BKEF-T 315	650	600	265	660	650	340	335	188	225
BKEF-T 355	730	660	310	820	650	405	340	210	256

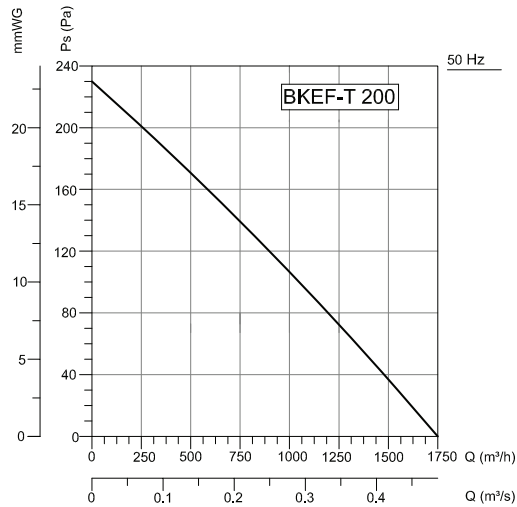
Dimensions are in (mm)

	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	V	Hz	kW	(A)	(μF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BKEF-T 200M	230	50	0,55	4,5	20	1365	1750	40	F	55	40
BKEF-T 225M	230	50	0,75	4,6	30	1405	2250	42	F	55	43
BKEF-T 250M	230	50	1,5	9,3	50	1410	3500	45	F	55	52
BKEF-T 280M	230	50	1,5	9,3	50	1410	4200	48	F	55	63
BKEF-T 315M	230	50	3	19	60	1425	5000	50	F	55	78
BKEF-T 200T	380	50	0,55	1,6	-	1365	1750	40	F	55	40
BKEF-T 225T	380	50	0,75	2,1	-	1405	2250	42	F	55	43
BKEF-T 250T	380	50	1,5	3,5	-	1410	3500	45	F	55	52
BKEF-T 280T	380	50	1,5	3,5	-	1410	4200	48	F	55	63
BKEF-T 315T	380	50	3	6,9	-	1425	5000	50	F	55	78
BKEF-T 355T	380	50	3	6,9	-	960	6000	45	F	55	85

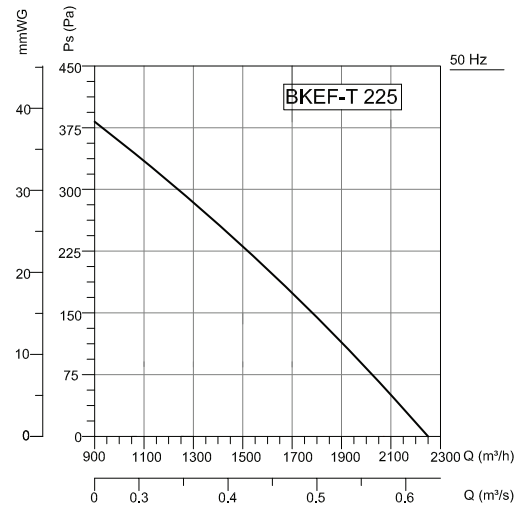
The sound level is measured at a distance of 4-10 m in open field condition.

Accessories

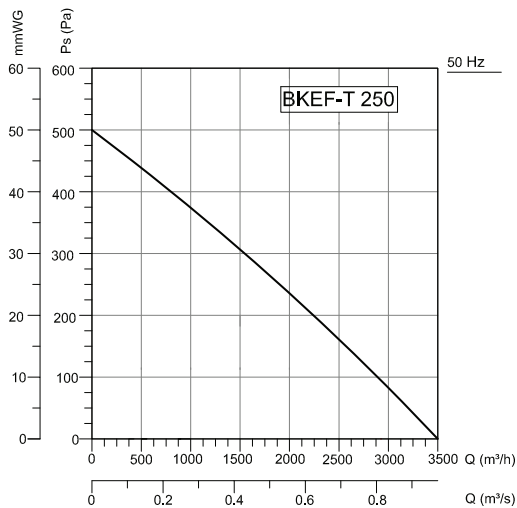




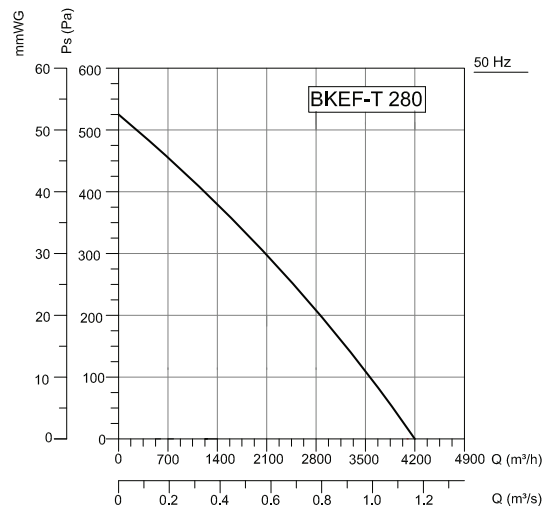
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	81	79	75	72	68	66	62	58	58	dB(A)
L_{WA} Outlet	83	81	77	74	70	68	64	60	60	dB(A)
L_{WA} Surrounding	63	61	57	54	50	48	44	40	40	dB(A)



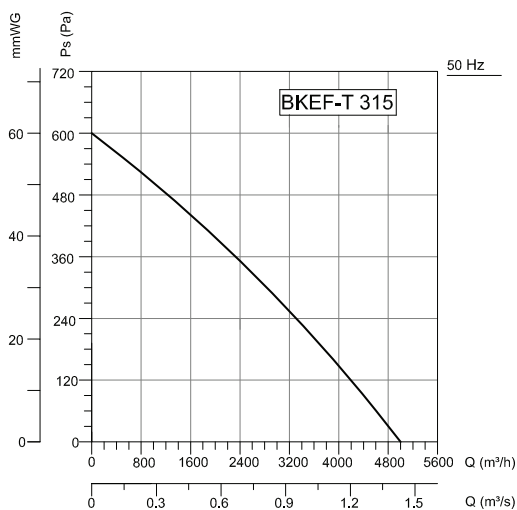
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	83	81	77	74	70	68	64	60	60	dB(A)
L_{WA} Outlet	85	83	79	76	72	70	66	62	62	dB(A)
L_{WA} Surrounding	65	63	59	56	52	50	46	42	42	dB(A)



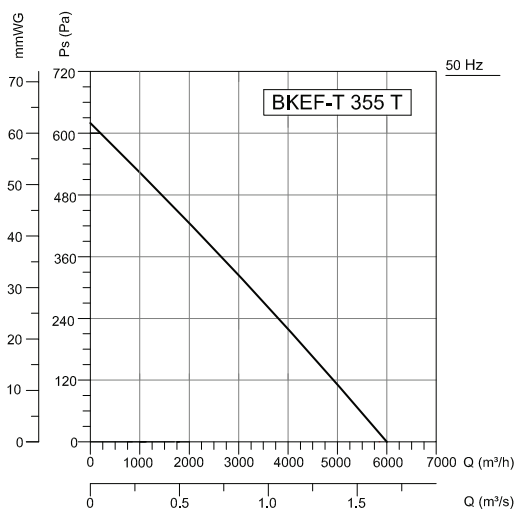
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	89	84	86	75	73	72	68	64	64	dB(A)
L_{WA} Outlet	88	86	81	80	75	74	69	64	64	dB(A)
L_{WA} Surrounding	68	65	61	60	56	54	49	45	45	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	89	87	83	80	76	74	70	66	66	dB(A)
L_{WA} Outlet	91	89	85	82	78	76	72	68	68	dB(A)
L_{WA} Surrounding	71	69	65	62	58	56	52	46	46	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	91	89	85	82	78	76	72	68	68	dB(A)
L_{WA} Outlet	93	91	87	84	80	78	74	70	70	dB(A)
L_{WA} Surrounding	73	71	67	64	60	58	54	48	48	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	88	84	85	76	72	73	68	64	64	dB(A)
L_{WA} Outlet	87	85	80	79	74	73	68	63	63	dB(A)
L_{WA} Surrounding	68	65	61	60	56	54	49	45	45	dB(A)



BHV

CABINET FANS / Forward Curved

Fan Components and Material Properties

The BHV double suction centrifugal box fan housing and fan are made of high quality galvanized steel that is resistant to corrosion. 25 mm stone wool was placed between the panels. Carcass structure is made of aluminum profile. Asynchronous motor belt pulley drive system is used. The device is capable of handling air at max.40°C.

Fan Structure

The fan blades are aerodynamically structured to provide forward flow and regular flow.

Benefits

They provide maximum efficiency with low energy. It is acoustically insulated against sound and it has

the feature of vibration-free operation. Thanks to the service cover in the construction, it provides easy intervention to maintenance and faults. Prevents unnecessary pressure losses due to the option of selecting the direction of air blowing and suction nozzles.

Speed Control

Belt pulley system is made by changing the conversion rate.

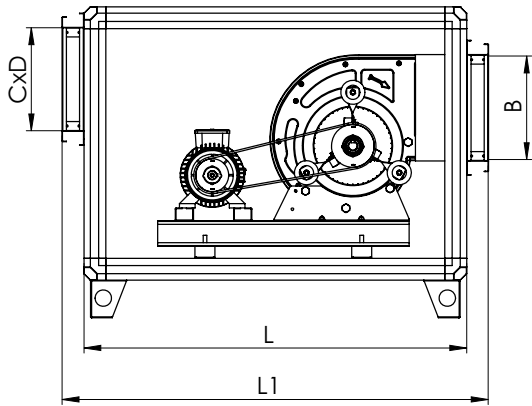
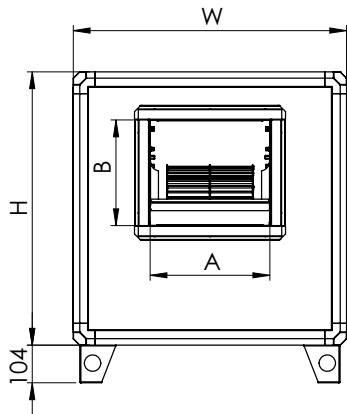
Usage Areas

Workplaces, offices, factories, hospitals, restaurants etc. used in large quantities where fresh air is required. It must be used with the filter in the exhaust vent.

*Filtered applications are optional. Please contact BVN representatives.

**Motor outside the airstream options are available.

Technical Drawing and Tables



TYPE	L	W	H	L1	A	B	C	D
BHV 7	850	600	600	1050	235	205	520	200
BHV 9	950	700	700	1150	295	260	620	250
BHV 10	1050	750	750	1250	335	290	670	350
BHV 12	1100	850	850	1300	400	335	770	400
BHV 15	1200	900	900	1400	485	408	820	500
BHV 18	1300	1000	1000	1500	560	480	920	600

Dimensions are in (mm)

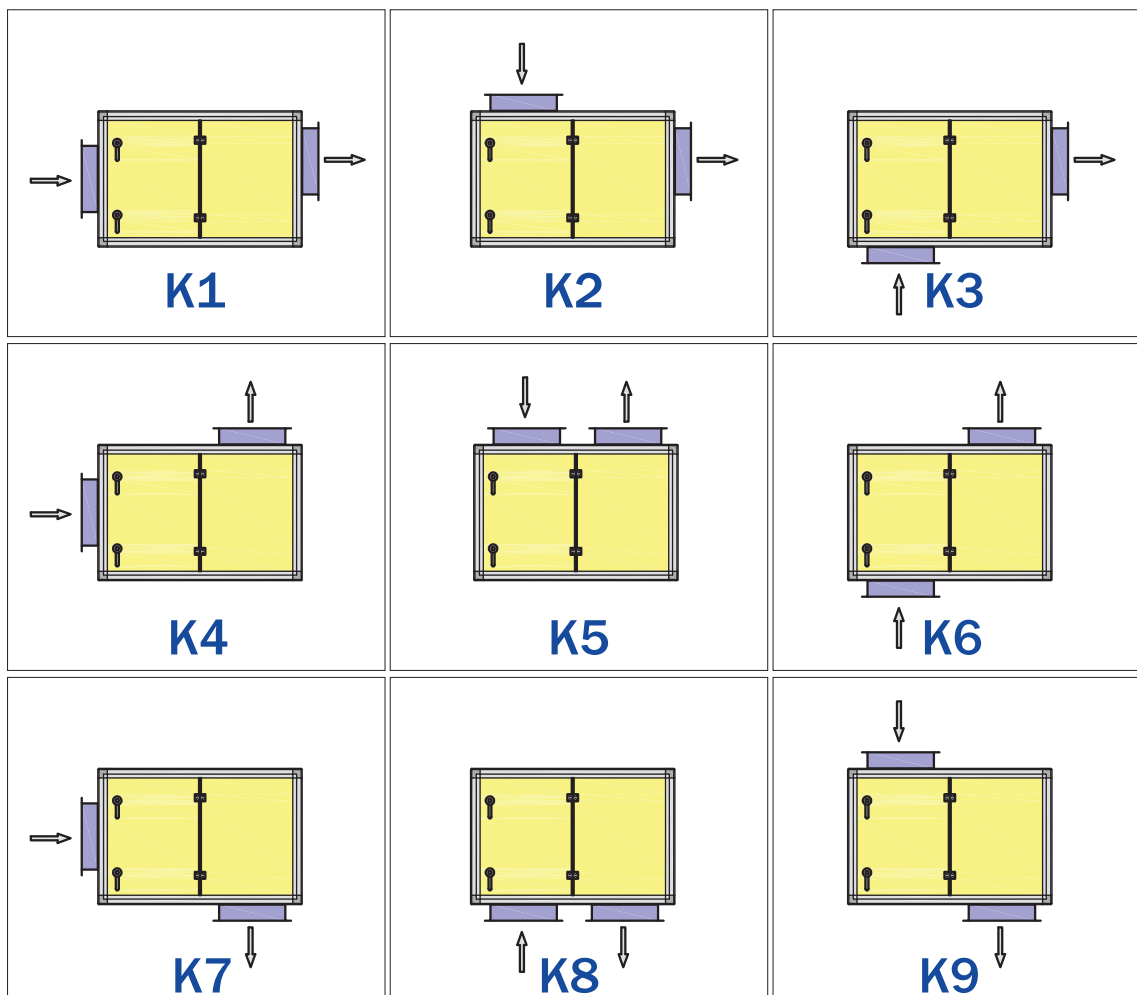
Accessories



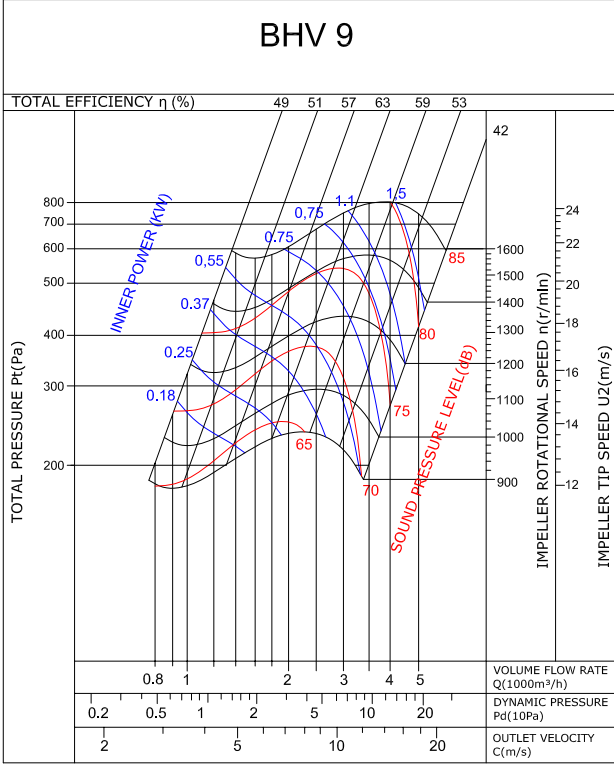
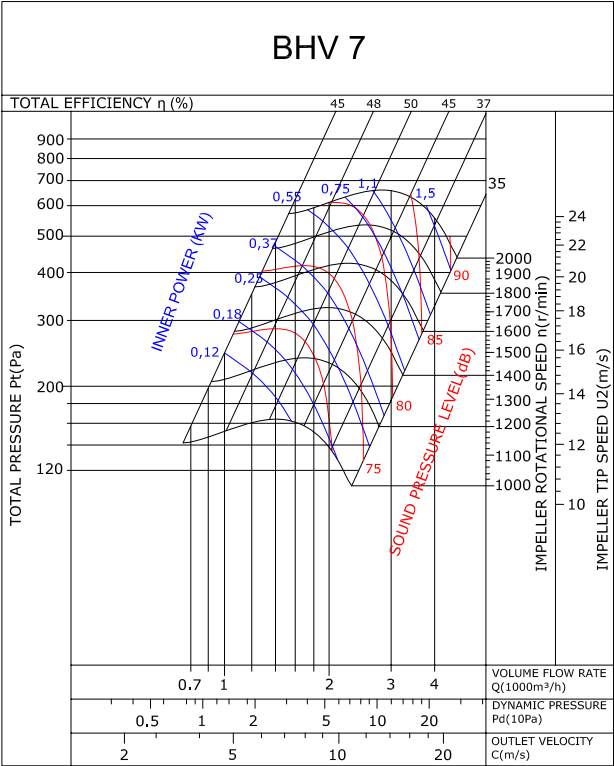
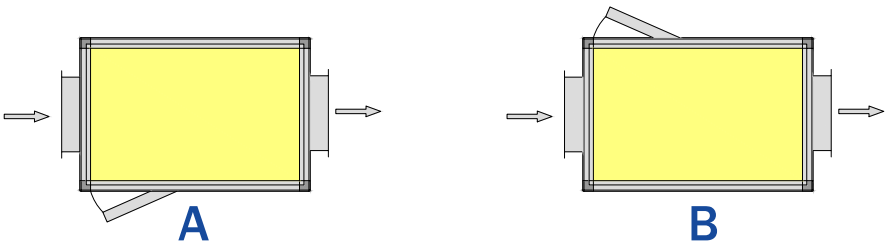
TYPE	VOLTAGE	FREQUENCY	POWER	SPEED	AIR FLOW	PRESSURE	SOUND PRESSURE	WEIGHT
	V	Hz	kW	d/d	m³/h	Pa	dB(A)	kg
BHV 7-0,25	220/380	50	0,25	1150	1800	180	49	65
BHV 7-0,37	220/380	50	0,37	1400	2100	220	51	66
BHV 7-0,55	220/380	50	0,55	1520	2350	310	54	68
BHV 7-0,75	220/380	50	0,75	1680	2600	380	57	69
BHV 9-0,37	220/380	50	0,37	990	2500	250	52	75
BHV 9-0,55	220/380	50	0,55	1080	3200	280	53	76
BHV 9-0,75	220/380	50	0,75	1200	3500	300	58	77
BHV 9-1,1	220/380	50	1,1	1300	4000	350	59	80
BHV 10-0,55	220/380	50	0,55	870	3800	200	52	83
BHV 10-0,75	220/380	50	0,75	1000	4200	250	55	84
BHV 10-1,1	220/380	50	1,1	1070	4800	300	58	87
BHV 10-1,5	220/380	50	1,5	1270	5300	400	60	89
BHV 12-0,75	220/380	50	0,75	765	5000	200	53	111
BHV 12-1,1	220/380	50	1,1	920	5500	300	56	114
BHV 12-1,5	220/380	50	1,5	990	6000	350	58	115
BHV 12-2,2	220/380	50	2,2	1080	7000	400	61	120
BHV 15-0,75	220/380	50	0,75	605	6000	190	53	128
BHV 15-1,1	220/380	50	1,1	700	7000	250	55	129
BHV 15-1,5	220/380	50	1,5	765	7800	300	57	131
BHV 15-2,2	220/380	50	2,2	880	9000	400	60	135
BHV 18-1,5	220/380	50	1,5	550	10000	200	57	175
BHV 18-2,2	220/380	50	2,2	610	11000	250	57	176
BHV 18-3	220/380	50	3	690	12000	330	59	177
BHV 18-4	380	50	4	690	13000	300	62	180

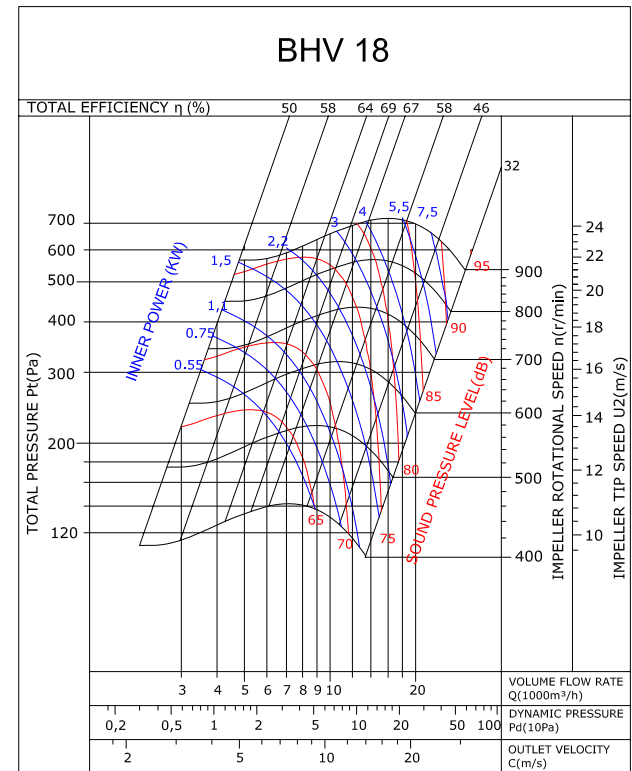
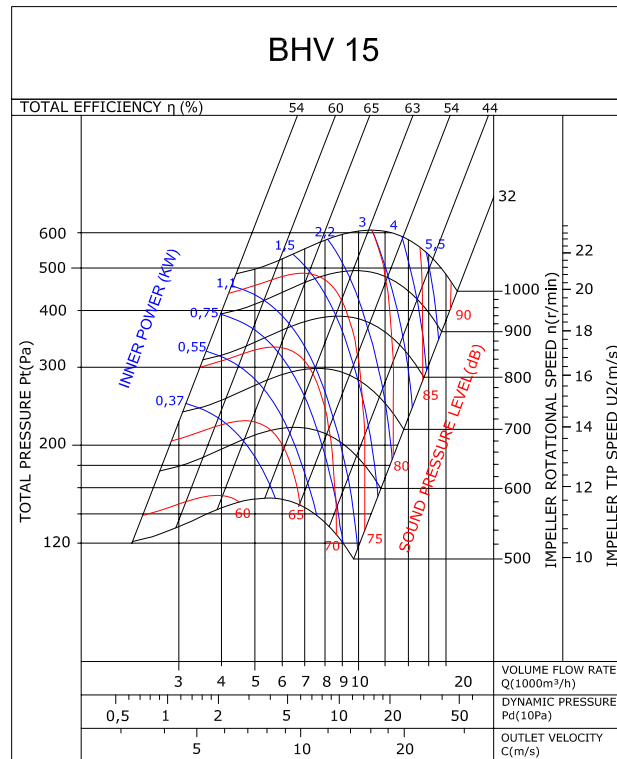
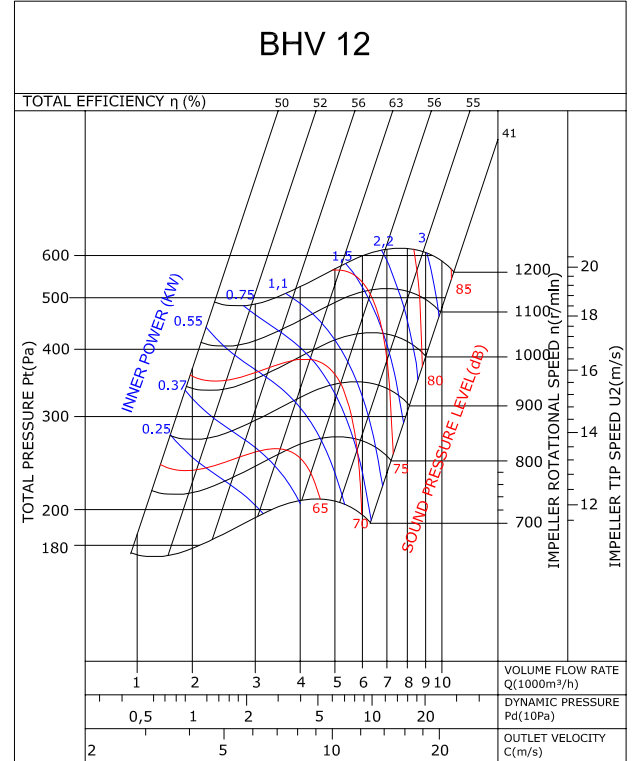
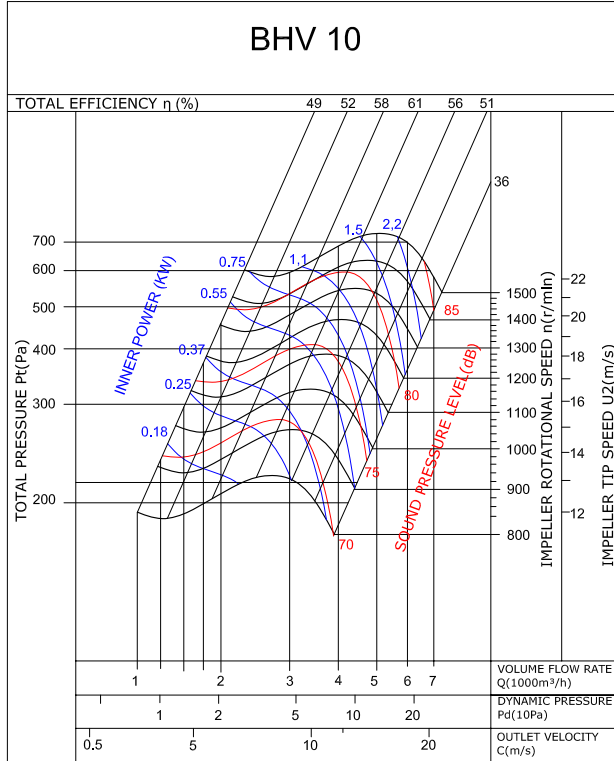
Sound Level Measured from 3m distance in room condition.

VENTILATION UNIT INLET-OUTLET DIRECTION



MAINTENANCE DOOR POSITION







BHV-R

CABINET FANS / Backward Curved

Fan Components and Material Properties

The BHV-R double suction centrifugal box fan housing and fan are made of high-quality galvanized steel that is resistant to corrosion. 25 mm stone wool was placed between the panels. Car-cass structure is made of aluminum profile. Asynchronous motor belt pulley drive system is used. The device is capable of handling air at max.40°C.

Fan Structure

Fan blades are produced in aerodynamic structure to provide backward curved and regular flow. It is fan welded and electrostatic powder coated.

Benefits

It responds to performance and efficiency with high flow rate and pressure channel systems. The stiff body allows the fan rotor to rotate at high speeds to achieve the desired pressure and flow rates. It prevents the accumulation of foreign materials such as dust and dirt on its sparsely wings. They provide maximum efficiency with low energy.

*Filtered applications are optional. Please contact BVN representatives.

**Motor outside the airstream options are available.

It is acoustically insulated against sound and it has the feature of vibration-free operation. Thanks to the service cover in the construction, it provides easy intervention to maintenance and faults. Prevents unnecessary pressure losses due to the option of selecting the direction of air blowing and suction nozzles.

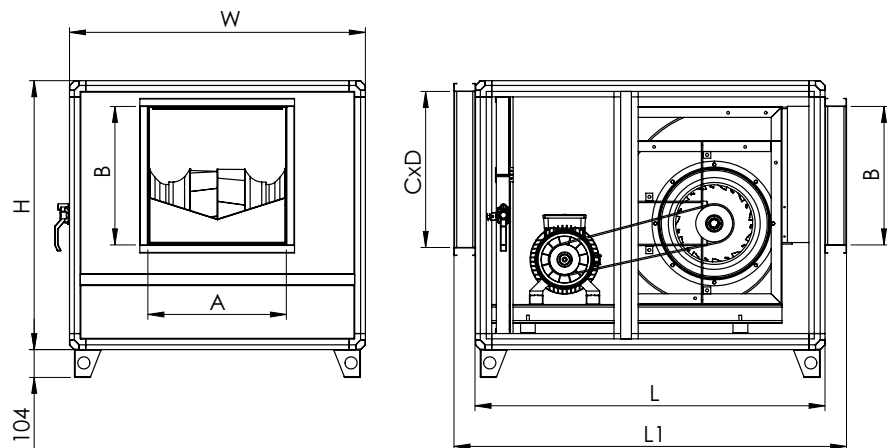
Speed Control

Optional control devices can be provided. In the belt pulley system, speed control can be done by changing the conversion rate or frequency inverter in 3 ~ phase products. (see BSC-F accessory)

Usage Areas

It is used to exhaust fine particulate powders or contaminated air with low oil vapor concentration due to the fact that it is curved with backward curves. It is used as an fan in ducted systems with high pressure losses. It must be used with the filter in the exhaust vent.

Technical Drawing and Tables



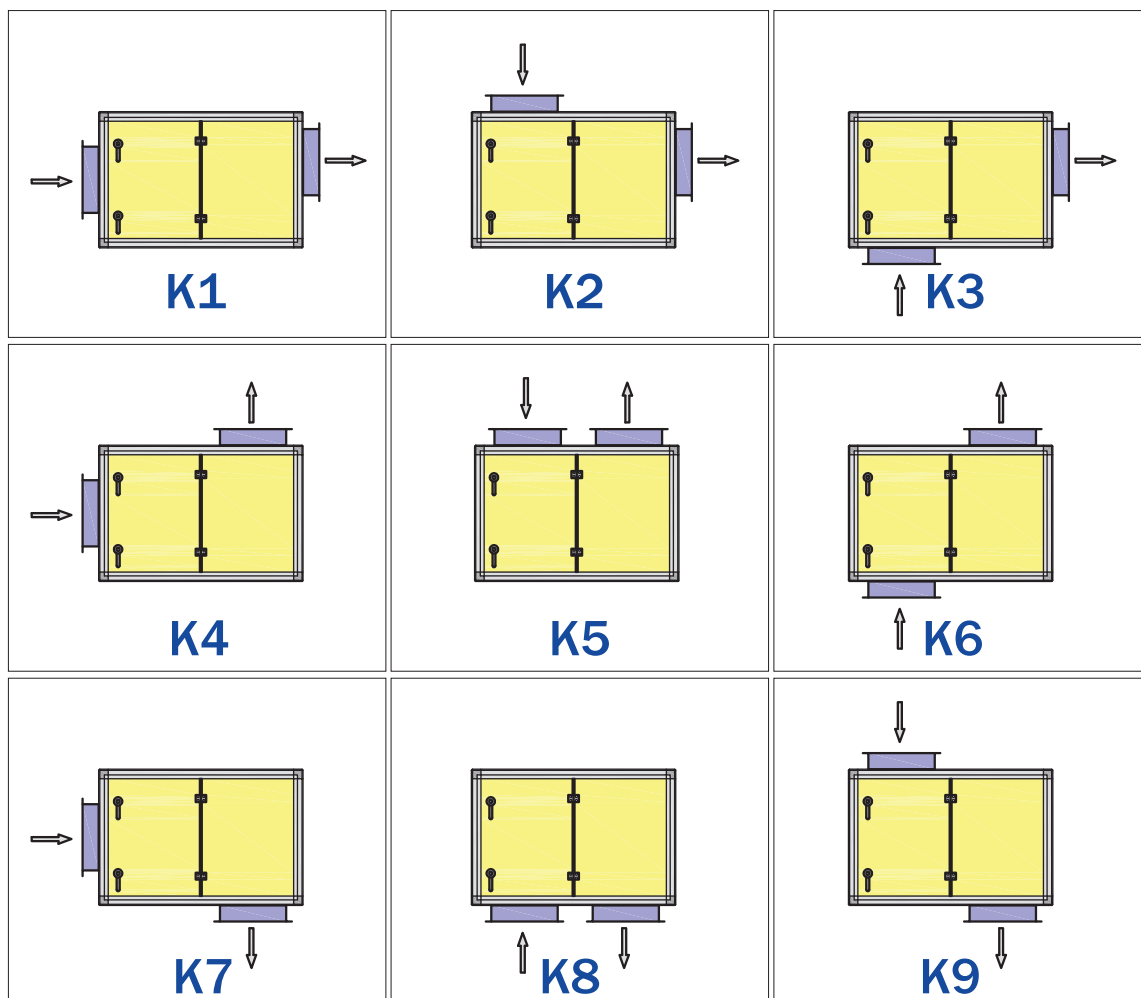
TYPE	L	W	H	L1	A	B	C	D
BHV-R 280	1050	750	750	1250	361	361	670	350
BHV-R 315	1100	850	850	1300	405	405	770	400
BHV-R 355	1200	900	900	1400	455	455	820	500
BHV-R 400	1300	1100	1000	1460	510	510	1020	580
BHV-R 450	1400	1200	1100	1560	570	570	1120	650
BHV-R 500	1600	1350	1200	1720	640	640	1235	680
BHV-R 560	1700	1500	1300	1820	715	715	1385	875
BHV-R 630	1950	1650	1650	2070	843	843	1535	965

Dimensions are in (mm)

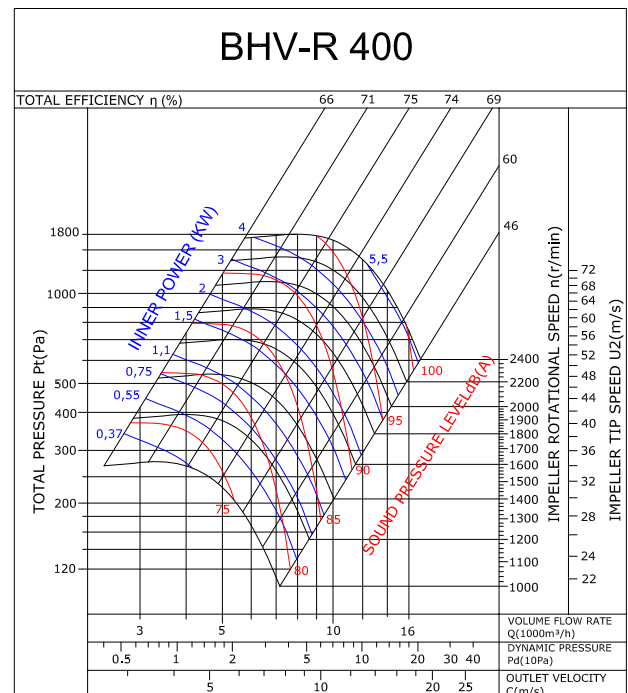
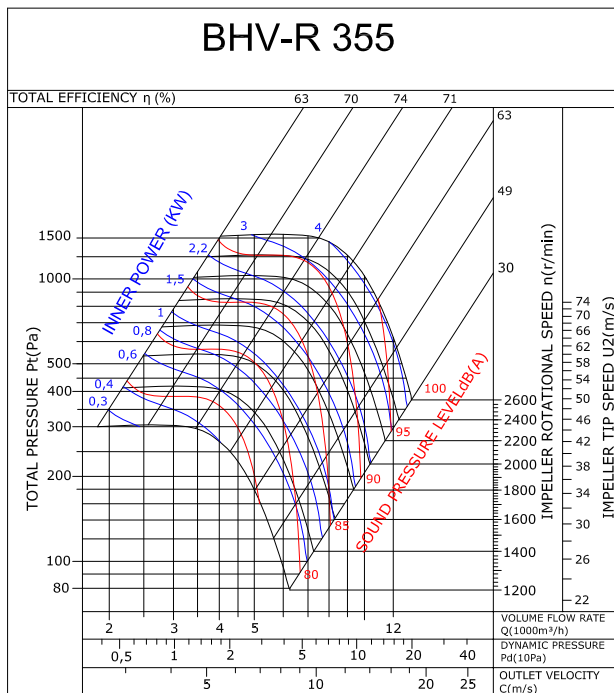
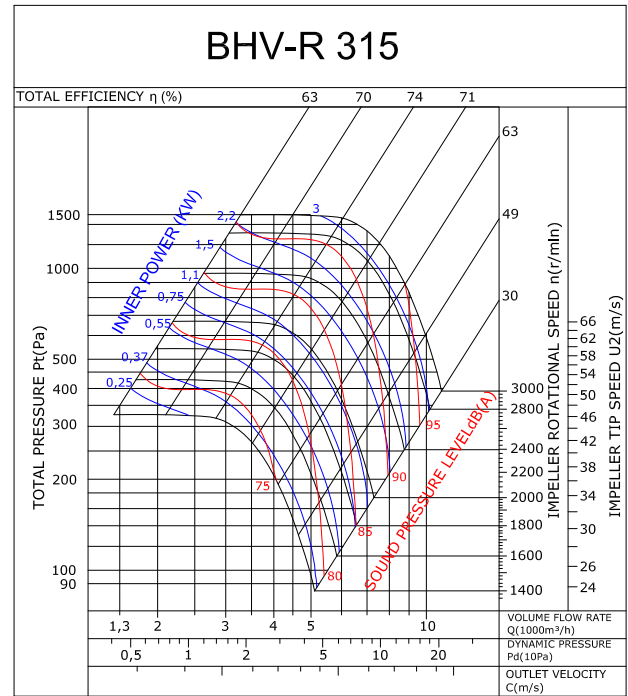
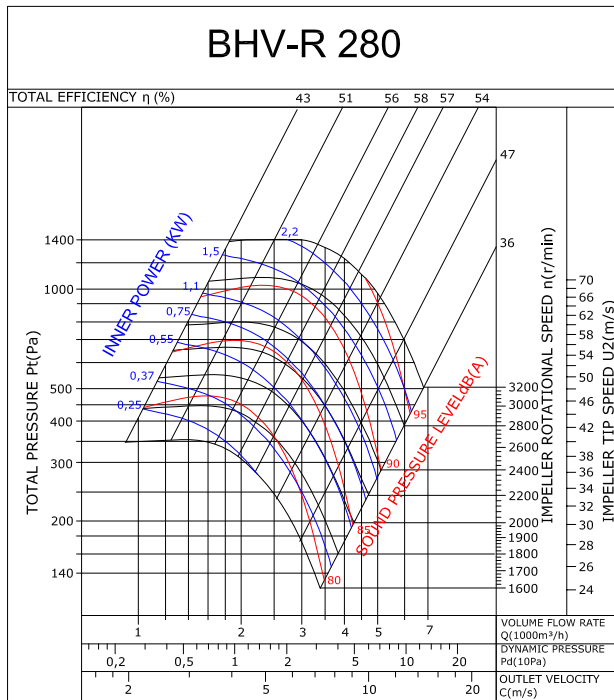
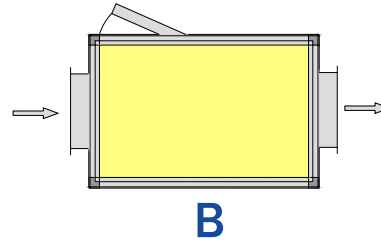
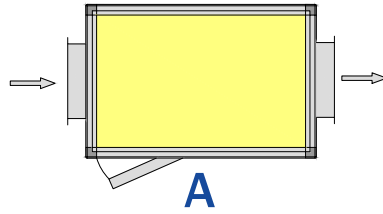
TYPE	VOLTAGE	FREQUENCY	POWER	SPEED	AIR FLOW	PRESSURE	SOUND PRESSURE
	V	Hz	kW	d/d	m³/h	Pa	dB(A)
BHV-R 280-0,55	220/380	50	0,55	1920	2000	500	65
BHV-R 280-0,75	220/380	50	0,75	2200	2500	620	66
BHV-R 280-1,1	220/380	50	1,1	2400	3000	700	70
BHV-R 315-1,5	220/380	50	1,5	2250	4000	800	68
BHV-R 315-2,2	220/380	50	2,2	2550	5000	1000	70
BHV-R 315-3	220/380	50	3	2680	6000	1000	71
BHV-R 355-2,2	220/380	50	2,2	2100	5000	900	66
BHV-R 355-3	220/380	50	3	2300	6500	1000	70
BHV-R 355-4	220/380	50	4	2450	8000	1000	73
BHV-R 400-3	220/380	50	3	1950	6000	1000	69
BHV-R 400-4	380	50	4	2030	8500	1000	73
BHV-R 400-5,5	380	50	5,5	2250	11500	1000	78
BHV-R 450-3	220/380	50	3	1650	7000	900	69
BHV-R 450-4	380	50	4	1750	9000	1000	71
BHV-R 450-5,5	380	50	5,5	1870	12000	1000	75
BHV-R 500-4	380	50	4	1480	10000	1000	71
BHV-R 500-5,5	380	50	5,5	1610	13000	1000	74
BHV-R 500-7,5	380	50	7,5	1670	15000	1000	76
BHV-R 560-5,5	380	50	5,5	1380	12000	1000	65
BHV-R 560-7,5	380	50	7,5	1400	16000	1000	67
BHV-R 560-11	380	50	11	1550	22000	1000	70
BHV-R 630-11	380	50	11	1340	25000	1000	99
BHV-R 630-15	380	50	15	1450	30000	1000	102
BHV-R 630-18,5	380	50	18,5	1570	35000	1000	105

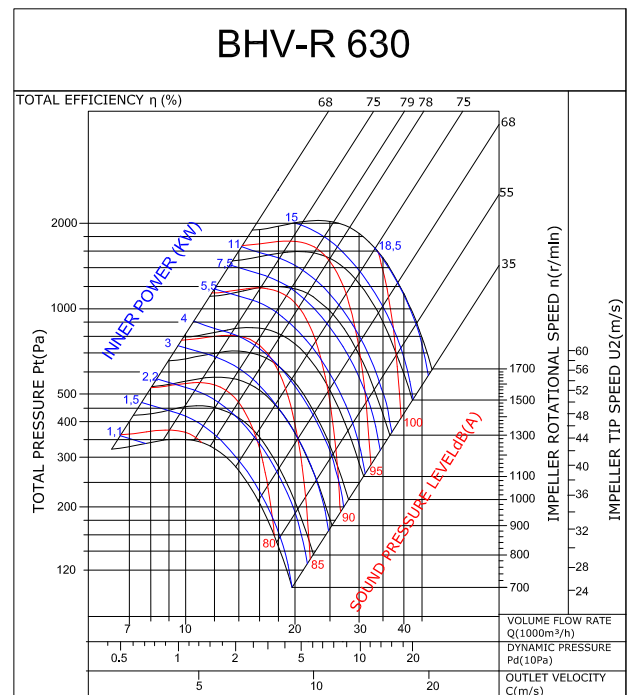
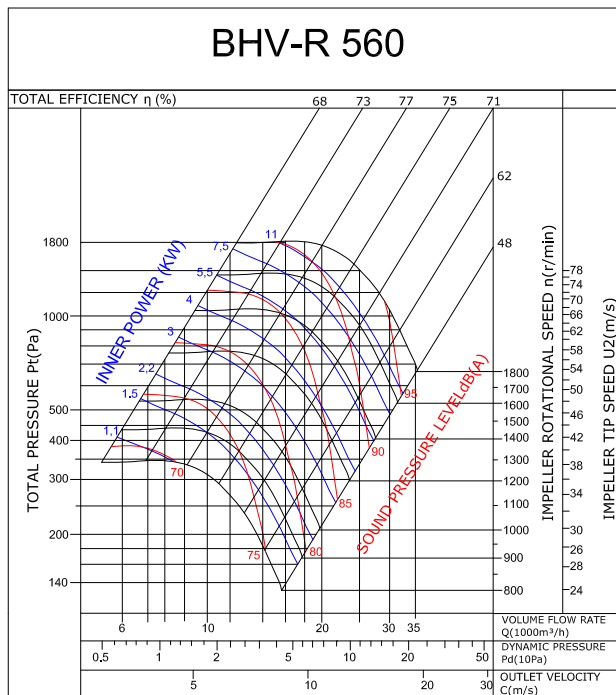
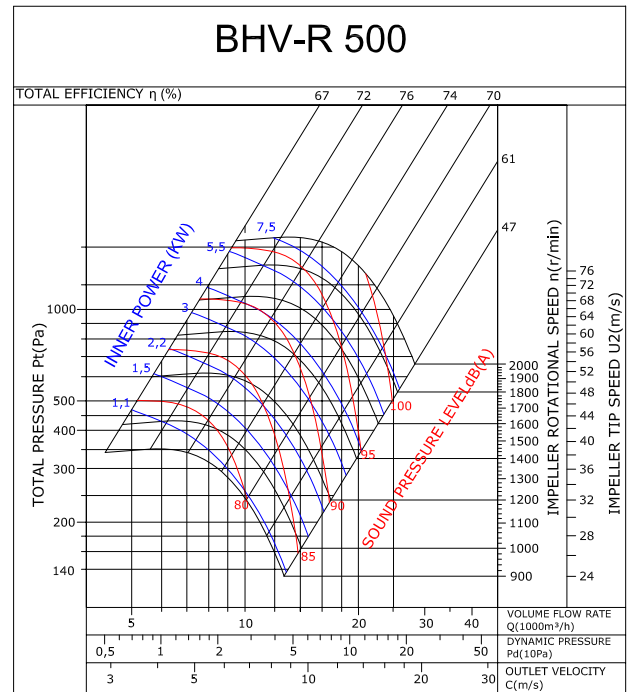
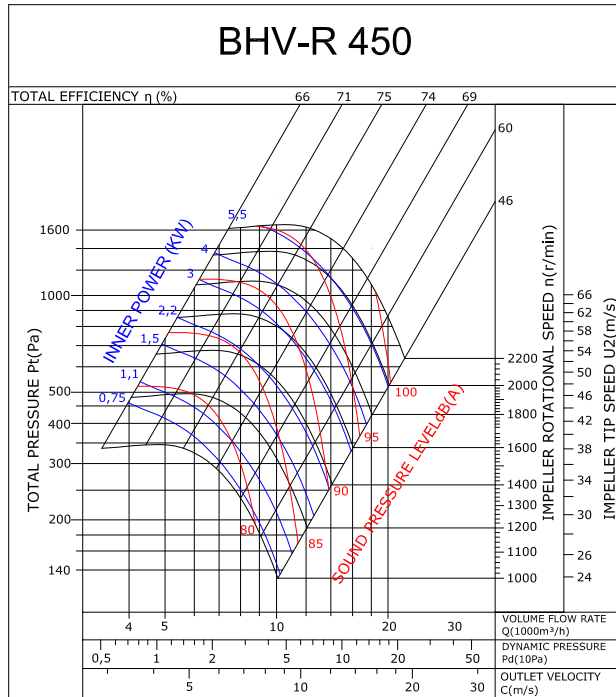
Sound Level Measured from 3m distance in room condition.

VENTILATION UNIT INLET-OUTLET DIRECTION



MAINTENANCE DOOR POSITION







BHV-P

CABINET FANS / METALIC FILTER / Backward Curved - Plug

Fan Components and Material Properties

BHV-P single suction plug fan is made of steel sheet with electrostatic paint against corrosion. 25 mm stone wool was placed between the panels. Carcass structure is made of aluminum profile. Suitable for operation at high temperatures when the motor is out of airflow.

Fan Structure

Fan blades are produced in aerodynamic structure to provide backward curved and regular flow. It is fan welded and electrostatic powder coated.

Benefits

It responds to performance and efficiency with high flow rate and pressure channel systems. The stiff body allows the fan rotor to rotate at high speeds to achieve the desired pressure and flow rates. It prevents the accumulation of foreign materials such as dust and dirt on its sparsely wings.

They provide maximum efficiency with low energy. It is acoustically insulated against sound and it has the feature of vibration-free operation. Thanks to the service cover in the construction, it provides easy intervention to maintenance and faults. It is suitable for use in oily environments due to its standard metal filter.

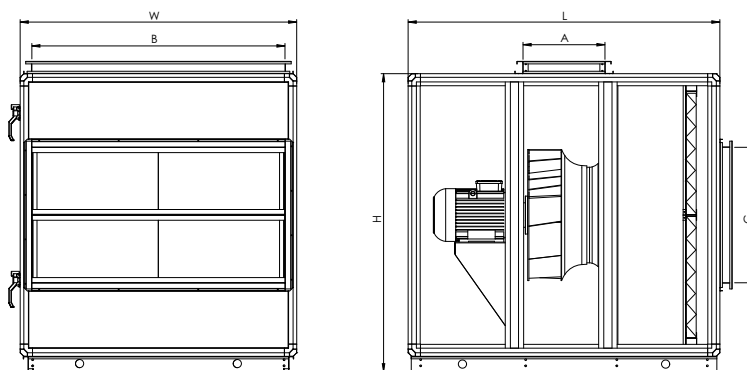
Speed Control

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

Usage Areas

It is used for exhausting dirty air with fine particulate powders or high oil mist concentration due to its sloped sparse blades. It is used as an fan in ducted systems with high pressure losses.

Technical Drawing and Tables

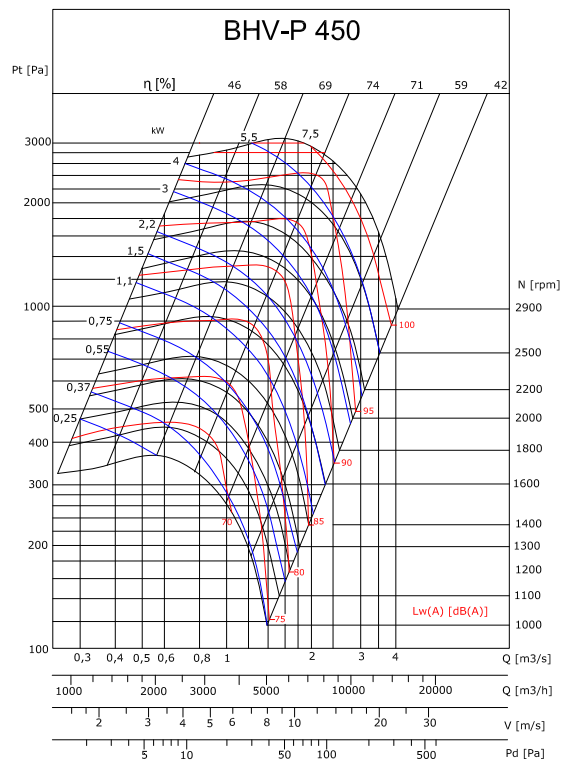
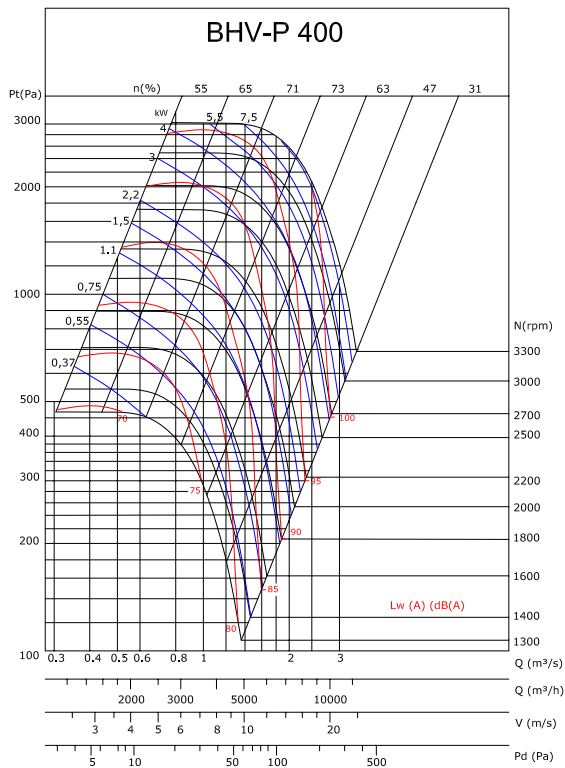
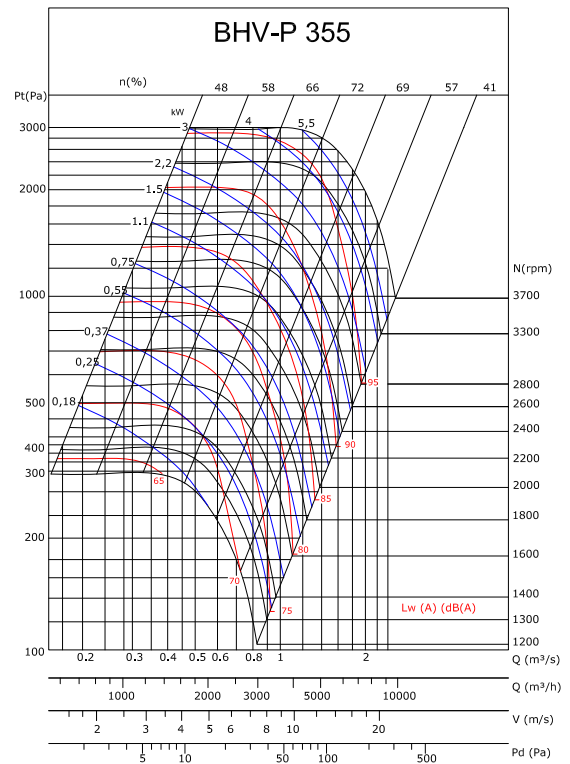
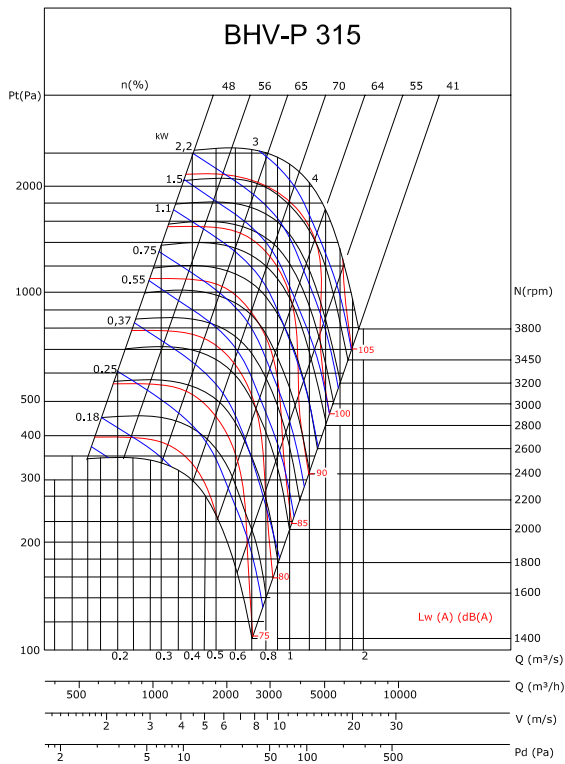


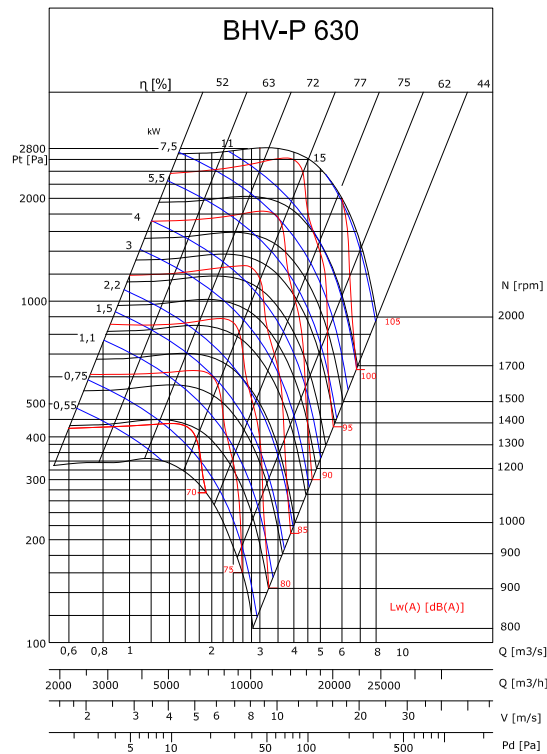
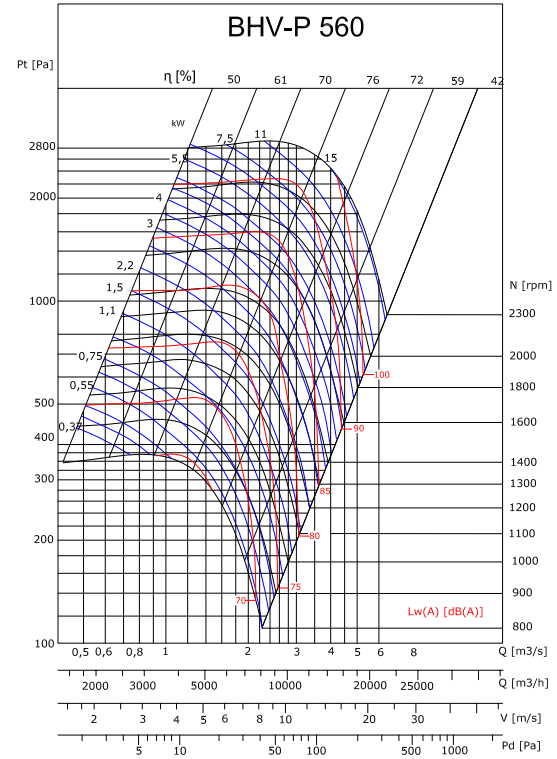
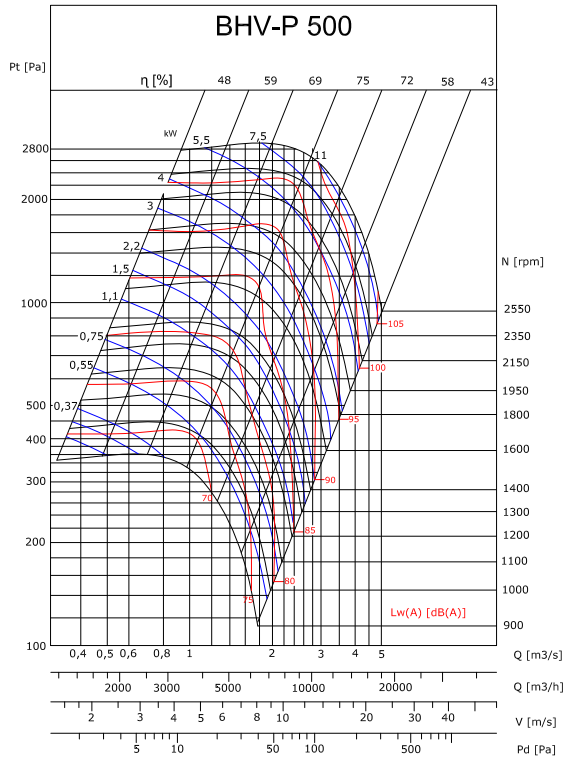
TYPE	H	W	L	A	B	C
BHV-P 315-0,37/4	800	725	1000	250	610	350
BHV-P 315-1,5/2	800	1035	1000	250	920	350
BHV-P 355-0,55/4	800	725	1060	300	610	350
BHV-P 355-3/2	1110	1035	1200	300	920	450
BHV-P 400-0,75/4	800	1035	1120	320	920	350
BHV-P 400-5,5/2	1110	1300	1270	320	1190	450
BHV-P 450-1,1/4	1110	1035	1220	350	920	450
BHV-P 450-7,5/2	1375	1300	1400	350	1190	550
BHV-P 500-3/4	1110	1300	1270	400	1190	450
BHV-P 560-4/4	1375	1300	1400	400	1190	550
BHV-P 630-5,5/4	1375	1610	1600	450	1190	660

Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	MOTOR SPEED	AIR FLOW	EXTERNAL PRESSURE LOSS
	V	Hz	kW	r.p.m	m ³ /h	Pa
BHV-P 315-0,37/4	230-380	50	0,37	1450	2600	100
BHV-P 315-1,5/2	230-380	50	1,5	2800	5000	400
BHV-P 355-0,55/4	230-380	50	0,55	1450	3400	100
BHV-P 355-3/2	380	50	3	2800	7500	500
BHV-P 400-0,75/4	230-380	50	0,75	1450	6000	100
BHV-P 400-5,5/2	230-380	50	5,5	2800	11000	500
BHV-P 450-1,1/4	230-380	50	1,1	1450	8000	200
BHV-P 450-7,5/2	380	50	7,5	2800	15000	600
BHV-P 500-3/4	380	50	3	1450	11000	200
BHV-P 560-4/4	380	50	4	1450	15000	250
BHV-P 630-5,5/4	380	50	5,5	1450	21000	300

Sound Level Measured from 3m distance in room condition.





Accessories



BSC-F



BDEB



BDH



BDKS



BFG2



BFG3



BFG4



BFH13



BTY



BBDD



ARMO-C

CABINET FANS / Axial

Box Axial fans are used in pressurization fan, fresh air fan and smoke exhaust fan applications. The box is fire resistant and designed according to the noise standard. Smoke evacuation fans are fire resistant.

General Features

- It has EN 12101-3 and Ce certificates.
- 2 hours continuous operation at 400 C and 300C
- There is a wide product range from 400 mm to 1250 mm.

Rotor Features

- Fire resistant aluminum alloy casting blades and fan hub.
- has the ability to work one-way and two-way. The blades are specially designed according to each direction type.
- There is no aerodynamic loss in the case of reversible wing type operation.
- Wings are airfoil and provide high aerodynamic performance in both unidirectional and bidirectional vanes.
- Wing angles are adjustable. In this way, smoke discharge fans can be demanded at different flow rates and pressures.

- The fan part of the fan is dynamically balanced according to ISO 1940 and there is no eccentricity during the operation of the fan.

Body Features

- Fan body is steel sheet. Body is hot dip galvanized and corrosion resistant.
- It has short type body and long type body types.

Motor Features

- Offers 2.4 and 6-pole motors
- The motors are IP 55 class and Class-H insulated.
- All electric motor models are approved for continuous operation (S1) and Emergency operation (S2).

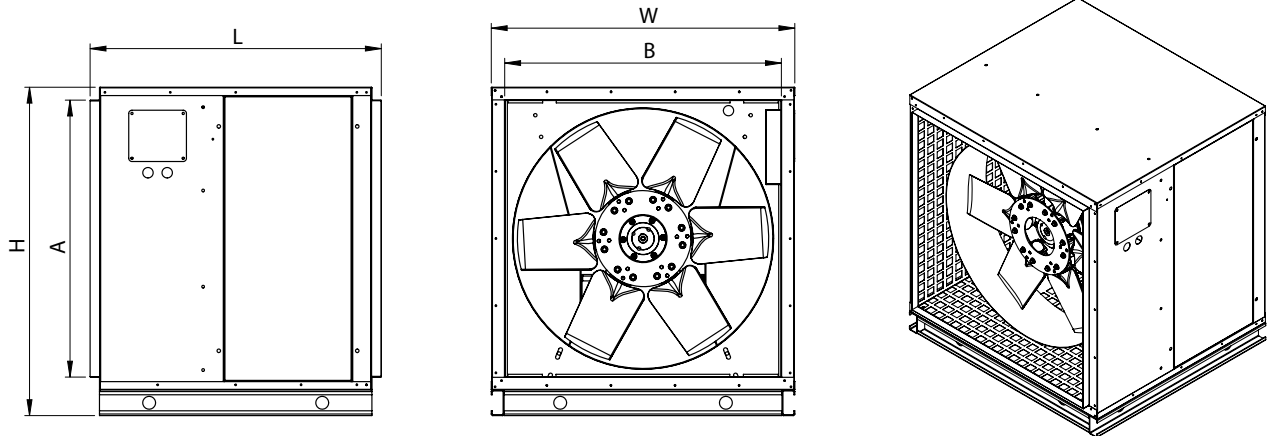
Ease of Maintenance

A maintenance cover is provided to ensure easy maintenance.

Usage Areas

Stair pressurization fan, fresh air fan, smoke is used as exhaust fan.

Technical Drawing and Tables



TYPE	L	W	H	A	B
ARMO-C 400	592	568	640	490	490
ARMO-C 450	592	568	640	490	490
ARMO-C 500	592	620	686	536	536
ARMO-C 560	745	707	775	624	624
ARMO-C 630	745	777	845	694	694
ARMO-C 710	910	857	925	774	774
ARMO-C 800	910	950	1025	865	865
ARMO-C 900	1065	1050	1125	965	965
ARMO-C 1000	1065	1150	1250	1069	1069
ARMO-C 1250	1065	1400	1500	1319	1319

Dimensions are in (mm)

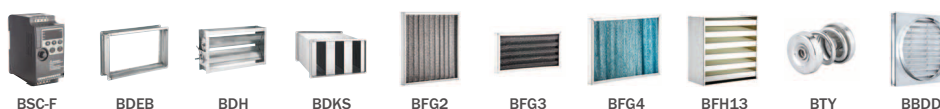


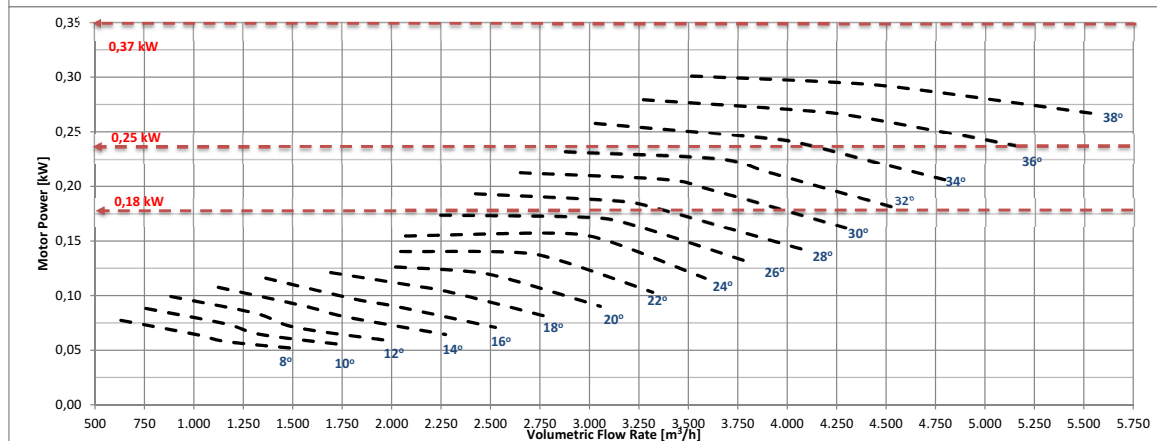
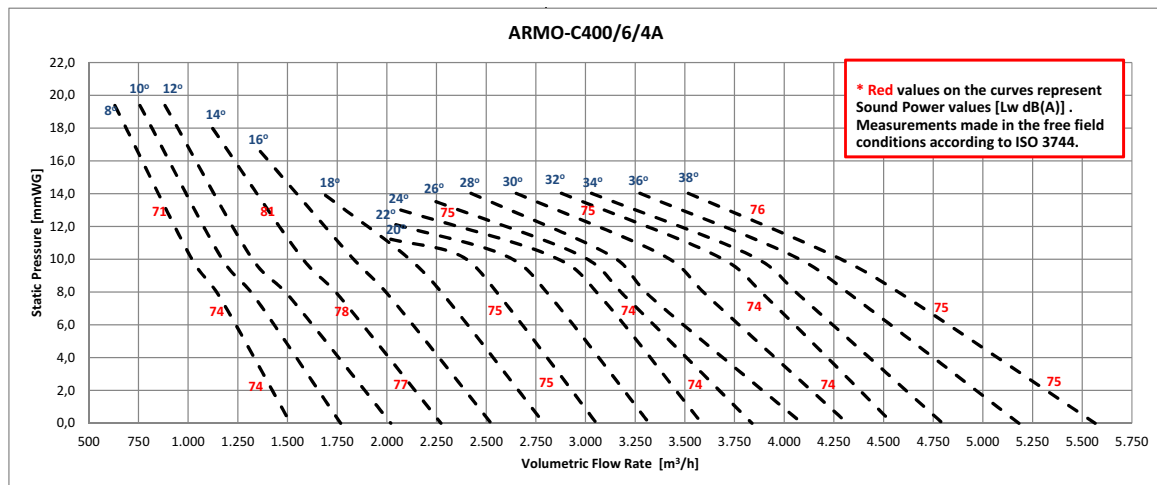
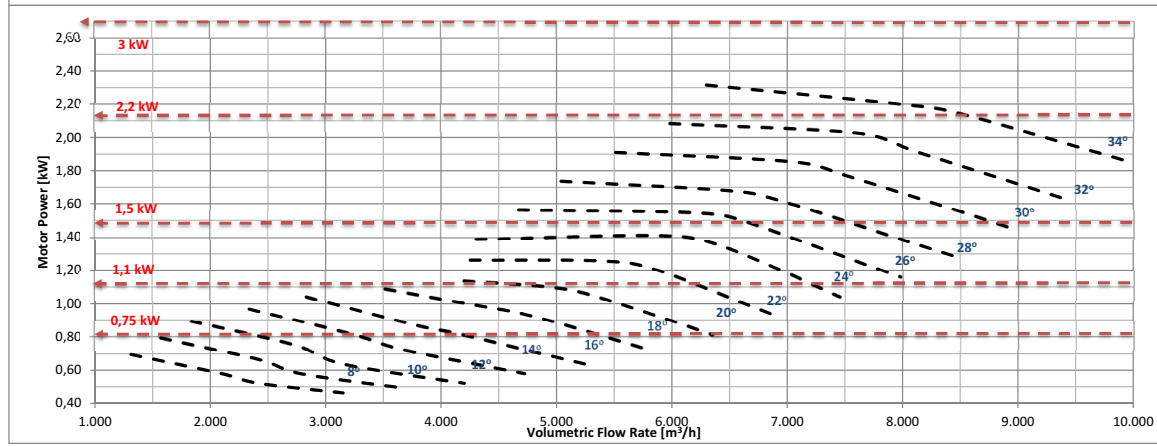
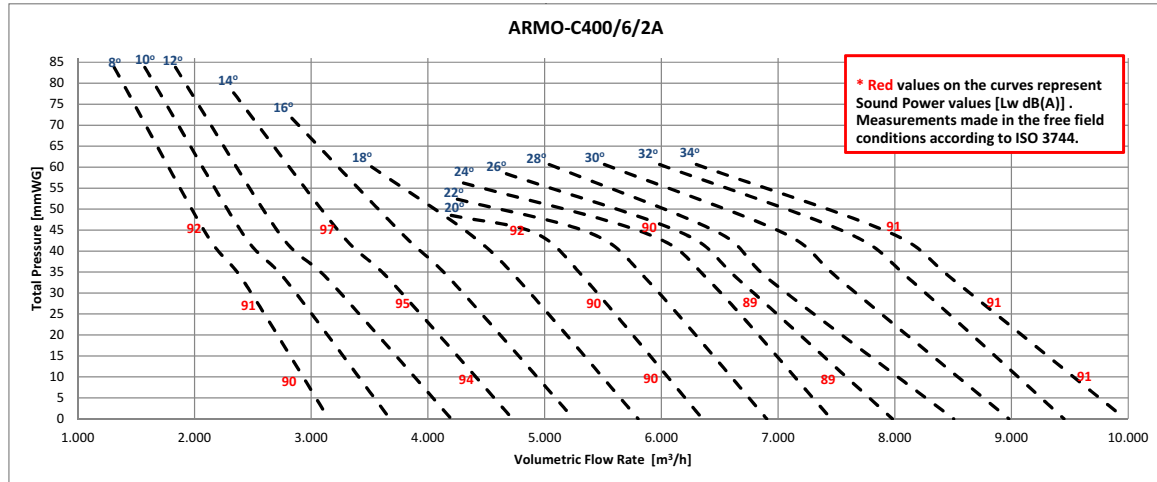
2 POLE						
	SPEED	DIAMETER	POWER	CURRENT	AIR FLOW	WING ANGLE
TYPE	r.p.m	mm	kW	A	m ³ /h	
ARMO-C / 400-6 / 0,75 - 2A	2900	400	0,75	1,6	5250	16°
ARMO-C / 400-6 / 1,1 - 2A	2900	400	1,1	2,3	6904	22°
ARMO-C / 400-6 / 1,5 - 2A	2900	400	1,5	3,4	8978	30°
ARMO-C / 400-6 / 2,2 - 2A	2900	400	2,2	4,48	9975	34°
ARMO-C / 450-6 / 1,1 - 2A	2900	450	1,1	2,3	6248	10°
ARMO-C / 450-6 / 1,5 - 2A	2900	450	1,5	3,4	8610	16°
ARMO-C / 450-6 / 2,2 - 2A	2900	450	2,2	4,48	11970	24°
ARMO-C / 450-6 / 3 - 2A	2900	450	3	6	13545	28°
ARMO-C / 500-6 / 2,2 - 2A	2900	500	2,2	4,48	11000	14°
ARMO-C / 500-6 / 3 - 2A	2900	500	3	6	14595	20°
ARMO-C / 500-6 / 4 - 2A	2900	500	4	7,4	17325	26°
ARMO-C / 500-6 / 5,5 - 2A	2900	500	5,5	11	18375	28°
ARMO-C / 560-6 / 4 - 2A	2900	560	4	7,4	17850	14°
ARMO-C / 560-6 / 5,5 - 2A	2900	560	5,5	11	22313	20°
ARMO-C / 560-6 / 7,5 - 2A	2800	560	7,5	13,6	25725	24°
ARMO-C / 630-6 / 5,5 - 2A	2900	630	5,5	11	20475	10°
ARMO-C / 630-6 / 7,5 - 2A	2800	630	7,5	13,6	27300	16°

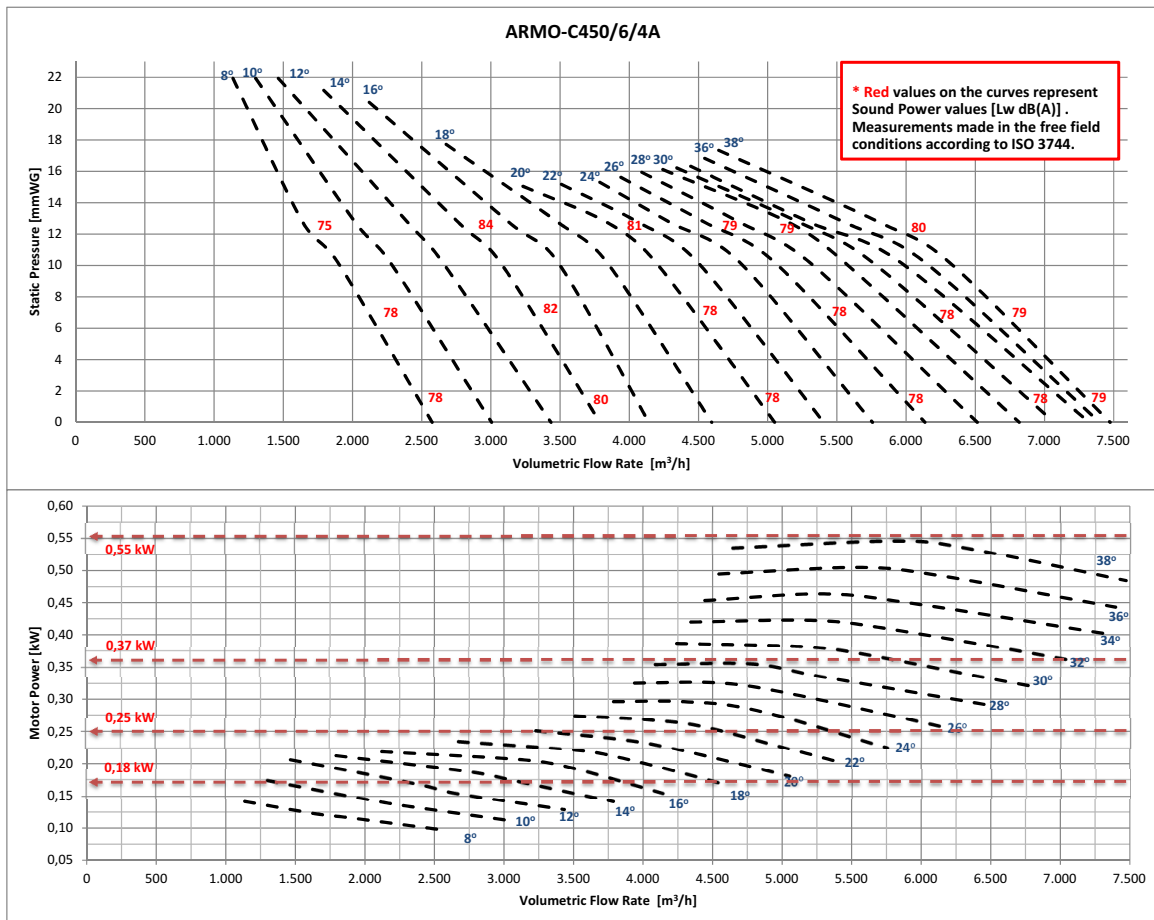
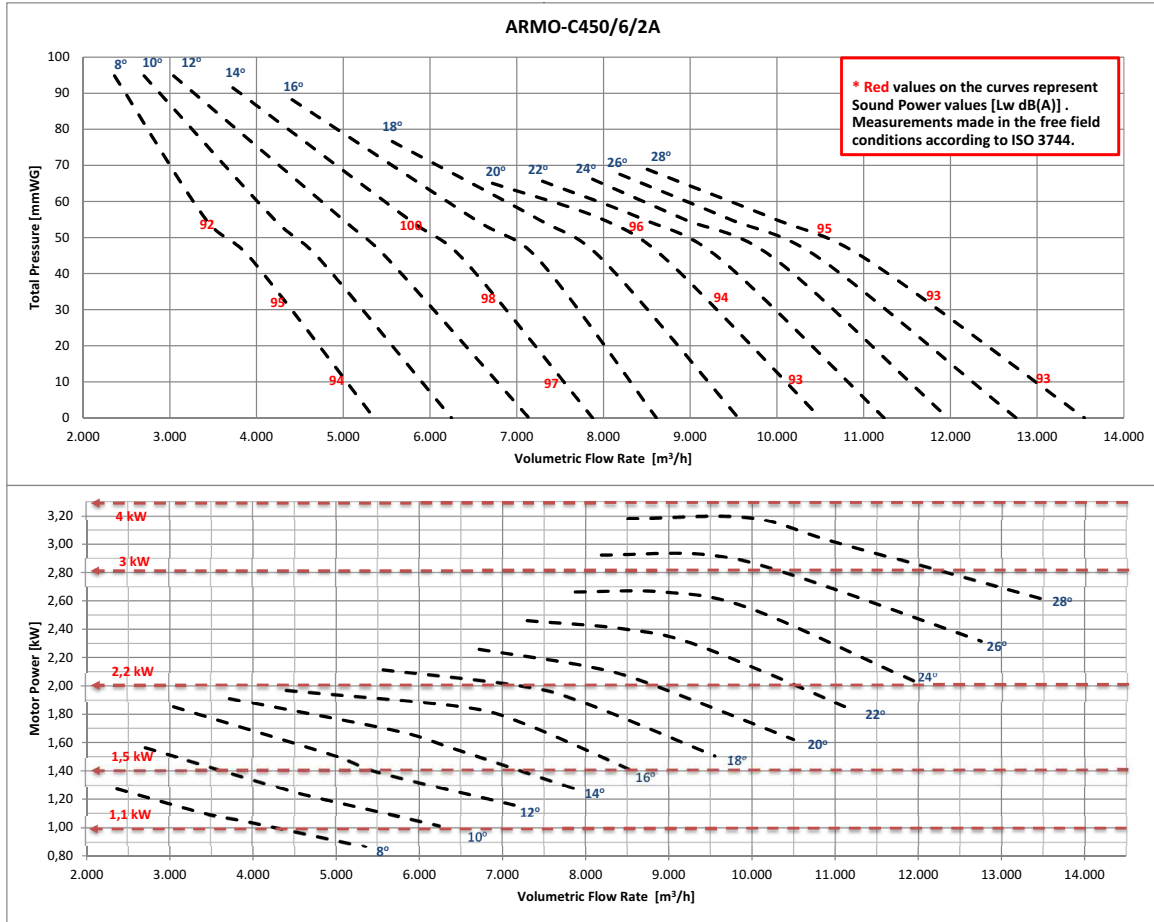
4 POLE	SPEED	DIAMETER	POWER	CURRENT	AIR FLOW	WING ANGLE
TYPE	r.p.m	mm	kW	A	m³/h	
ARMO-C / 500-6 / 0,55 - 4A	1415	500	0,55	1,6	8715	26
ARMO-C / 500-6 / 0,75 - 4A	1350	500	0,75	2,1	10290	32
ARMO-C / 500-6 / 1,1 - 4A	1400	500	1,1	2,6	12600	38
ARMO-C / 560-6 / 0,55 - 4A	1415	560	0,55	1,6	9870	16
ARMO-C / 560-6 / 0,75 - 4A	1350	560	0,75	2,1	12075	22
ARMO-C / 560-6 / 1,1 - 4A	1400	560	1,1	2,6	13860	26
ARMO-C / 560-6 / 1,5 - 4A	1405	560	1,5	3,5	15750	32
ARMO-C / 560-6 / 2,2 - 4A	1410	560	2,2	5	17850	38
ARMO-C / 630-6 / 0,75 - 4A	1350	630	0,75	2,1	10605	10
ARMO-C / 630-6 / 1,1 - 4A	1400	630	1,1	2,6	16275	20
ARMO-C / 630-6 / 1,5 - 4A	1405	630	1,5	3,5	18375	24
ARMO-C / 630-6 / 2,2 - 4A	1410	630	2,2	5	21525	30
ARMO-C / 630-6 / 3 - 4A	1410	630	3	6,6	24150	36
ARMO-C / 630-6 / 4 - 4A	1500	630	4	8,2	25200	38
ARMO-C / 710-3 / 0,75 - 4A	1350	710	0,75	2,1	14175	10
ARMO-C / 710-3 / 1,1 - 4A	1400	710	1,1	2,6	18375	16
ARMO-C / 710-3 / 1,5 - 4A	1405	710	1,5	3,5	21000	20
ARMO-C / 710-3 / 2,2 - 4A	1410	710	2,2	5	24413	26
ARMO-C / 710-3 / 3 - 4A	1410	710	3	6,6	27825	32
ARMO-C / 710-6 / 1,1 - 4A	1400	710	1,1	2,6	16275	12
ARMO-C / 710-6 / 1,5 - 4A	1405	710	1,5	3,5	20475	18
ARMO-C / 710-6 / 2,2 - 4A	1410	710	2,2	5	23625	22
ARMO-C / 710-6 / 3 - 4A	1410	710	3	6,6	28350	28
ARMO-C / 710-6 / 4 - 4A	1415	710	4	8,2	31500	32
ARMO-C / 800-6 / 2,2 - 4A	1410	800	2,2	5	24150	14
ARMO-C / 800-6 / 3 - 4A	1410	800	3	6,6	30450	20
ARMO-C / 800-6 / 4 - 4A	1415	800	4	8,2	32550	22
ARMO-C / 800-6 / 5,5 - 4A	1430	800	5,5	11,2	38850	28
ARMO-C / 800-6 / 7,5 - 4A	1440	800	7,5	15,4	42525	32
ARMO-C / 800-9 / 2,2 - 4A	1410	800	2,2	5	16275	10
ARMO-C / 800-9 / 3 - 4A	1410	800	3	6,6	21525	14
ARMO-C / 800-9 / 4 - 4A	1415	800	4	8,2	29400	20
ARMO-C / 800-9 / 5,5 - 4A	1430	800	5,5	11,2	36488	26
ARMO-C / 800-9 / 7,5 - 4A	1440	800	7,5	15,4	40950	30
ARMO-C / 800-9 / 11 - 4A	1450	800	11	21	43050	32
ARMO-C / 900-6 / 4 - 4A	1415	900	4	8,2	31500	12
ARMO-C / 900-6 / 5,5 - 4A	1430	900	5,5	11,2	38850	16
ARMO-C / 900-6 / 7,5 - 4A	1440	900	7,5	15,4	47775	22
ARMO-C / 900-6 / 11 - 4A	1450	900	11	21	56700	28
ARMO-C / 900-6 / 15 - 4A	1450	900	15	29,3	60900	32
ARMO-C / 900-9 / 4 - 4A	1415	900	4	8,2	26775	10
ARMO-C / 900-9 / 5,5 - 4A	1430	900	5,5	11,2	34125	14
ARMO-C / 900-9 / 7,5 - 4A	1440	900	7,5	15,4	41213	18
ARMO-C / 900-9 / 11 - 4A	1450	900	11	21	54600	26
ARMO-C / 900-9 / 15 - 4A	1450	900	15	29,3	63525	32
ARMO-C / 1000-6 / 5,5 - 4A	1430	1000	5,5	11,2	38850	12
ARMO-C / 1000-6 / 7,5 - 4A	1440	1000	7,5	15,4	47775	18
ARMO-C / 1000-6 / 11 - 4A	1450	1000	11	21	56700	22
ARMO-C / 1000-6 / 15 - 4A	1450	1000	15	29,3	60900	28
ARMO-C / 1000-6 / 18,5 - 4A	1455	1000	18,5	34,5	56700	32
ARMO-C / 1000-9 / 7,5 - 4A	1440	1000	7,5	15,4	43050	12
ARMO-C / 1000-9 / 11 - 4A	1450	1000	11	21	55650	18
ARMO-C / 1000-9 / 15 - 4A	1450	1000	15	29,3	69300	24
ARMO-C / 1000-9 / 18,5 - 4A	1455	1000	18,5	34,5	77700	28
ARMO-C / 1000-9 / 22 - 4A	1460	1000	22	42,5	81900	30
ARMO-C / 1000-9 / 30 - 4A	1460	1000	30	55	86100	32
ARMO-C / 1250-6 / 15 - 4A	1450	1250	15	29,3	90300	12
ARMO-C / 1250-6 / 18,5 - 4A	1455	1250	18,5	34,5	103950	16
ARMO-C / 1250-6 / 22 - 4A	1460	1250	22	42,5	109725	18
ARMO-C / 1250-6 / 30 - 4A	1460	1250	30	55	122850	22
ARMO-C / 1250-6 / 37 - 4A	1470	1250	37	67	136500	26
ARMO-C / 1250-6 / 45 - 4A	1475	1250	45	80	155400	32
ARMO-C / 1250-9 / 18,5 - 4A	1455	1250	18,5	34,5	89250	12
ARMO-C / 1250-9 / 22 - 4A	1460	1250	22	42,5	97650	14
ARMO-C / 1250-9 / 30 - 4A	1460	1250	30	55	114975	18
ARMO-C / 1250-9 / 37 - 4A	1470	1250	37	67	131250	22
ARMO-C / 1250-9 / 45 - 4A	1475	1250	45	80	138600	24

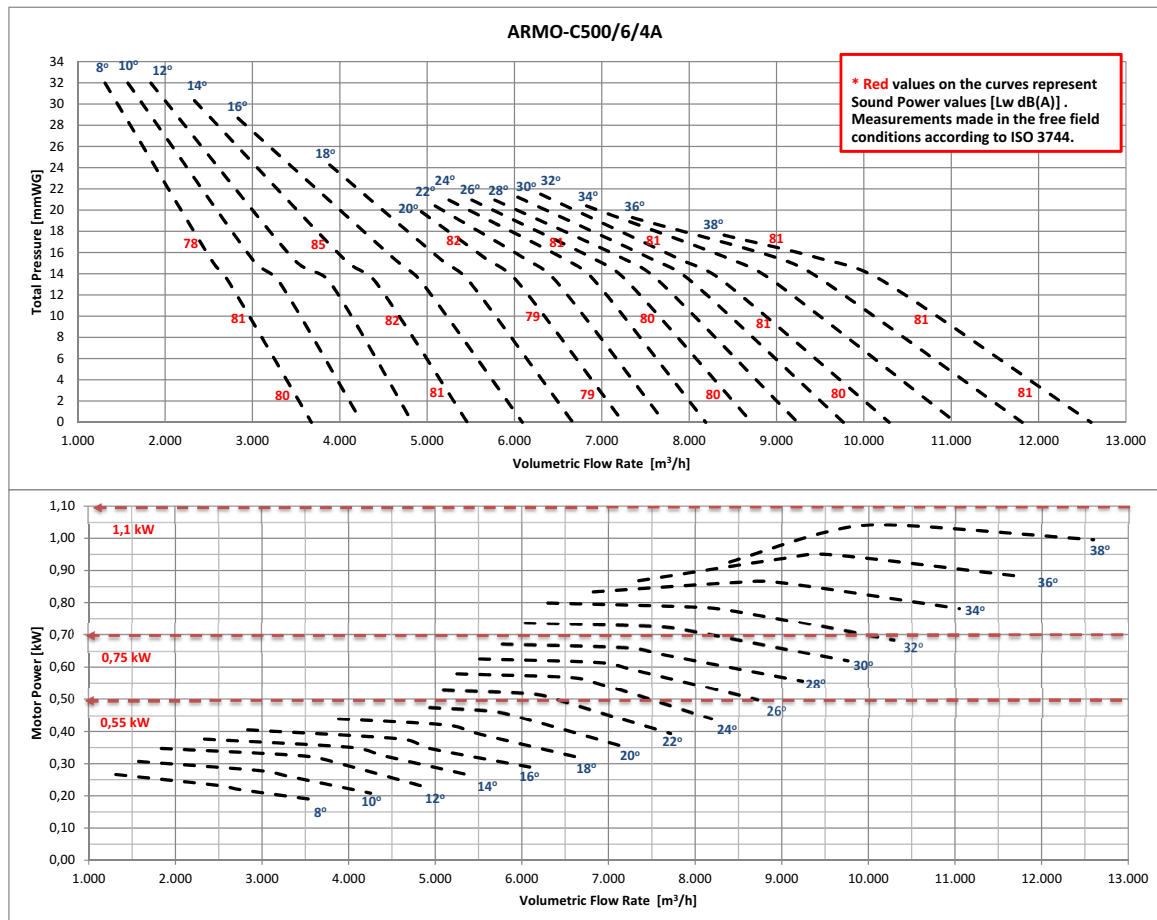
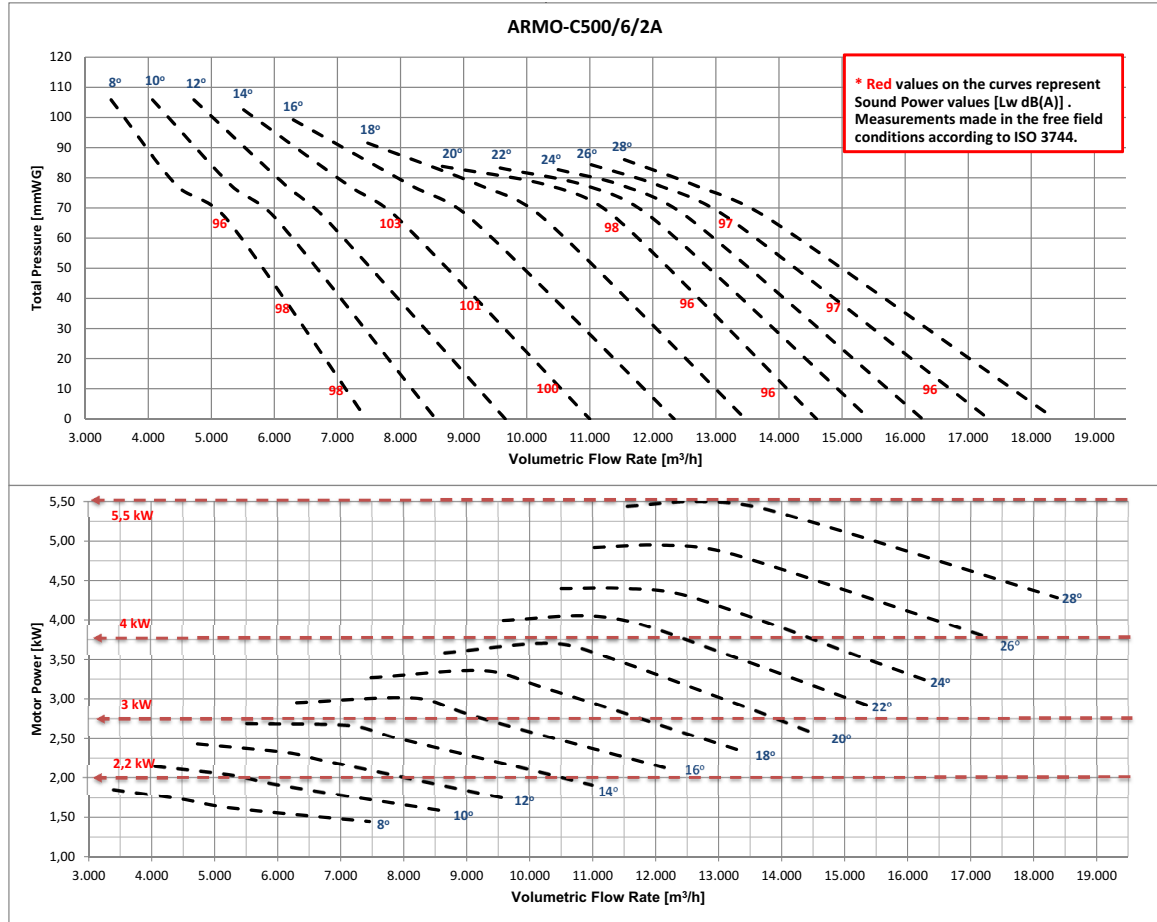
6 POLE	SPEED	DIAMETER	POWER	CURRENT	AIR FLOW	WING ANGLE
TYPE	r.p.m	mm	kW	230V - 400V	m ³ /h	
ARMO-C / 500-6 / 0,37 - 6A	900	500	0,37	1,1	8400	38
ARMO-C / 560-6 / 0,37 - 6A	900	560	0,37	1,1	10500	32
ARMO-C / 560-6 / 0,55 - 6A	930	560	0,55	1,5	11760	38
ARMO-C / 630-6 / 0,37 - 6A	900	630	0,37	1,1	11576	22
ARMO-C / 630-6 / 0,55 - 6A	930	630	0,55	1,5	13650	28
ARMO-C / 630-6 / 0,75 - 6A	945	630	0,75	2	14963	32
ARMO-C / 630-6 / 1,1 - 6A	945	630	1,1	2,9	16800	38
ARMO-C / 710-3 / 0,37 - 6A	900	710	0,37	1,1	13125	18
ARMO-C / 710-3 / 0,55 - 6A	930	710	0,55	1,5	16538	26
ARMO-C / 710-3 / 0,75 - 6A	945	710	0,75	2	18900	32
ARMO-C / 710-6 / 1,1 - 6A	945	710	1,1	2,9	11025	12
ARMO-C / 710-6 / 1,5 - 6A	945	710	1,5	3,6	13000	16
ARMO-C / 710-6 / 2,2 - 6A	950	710	2,2	5,4	13750	22
ARMO-C / 710-6 / 3 - 6A	950	710	3	6,9	18900	28
ARMO-C / 710-6 / 4 - 6A	955	710	4	9	21000	32
ARMO-C / 800-6 / 0,55 - 6A	930	800	0,55		13125	10
ARMO-C / 800-6 / 1,1 - 6A	945	800	1,1	2,9	22050	22
ARMO-C / 800-6 / 1,5 - 6A	945	800	1,5	3,6	25200	26
ARMO-C / 800-6 / 2,2 - 6A	950	800	2,2	5,4	28350	32
ARMO-C / 800-9 / 0,75 - 6A	945	800	0,75	2	14700	14
ARMO-C / 800-9 / 1,1 - 6A	945	800	1,1	2,9	19950	20
ARMO-C / 800-9 / 1,5 - 6A	945	800	1,5	3,6	23100	24
ARMO-C / 800-9 / 2,2 - 6A	950	800	2,2	5,4	27300	30
ARMO-C / 800-9 / 3 - 6A	950	800	3	6,9	28350	32
ARMO-C / 900-6 / 1,1 - 6A	945	900	1,1	2,9	23100	14
ARMO-C / 900-6 / 1,5 - 6A	945	900	1,5	3,6	25200	16
ARMO-C / 900-6 / 2,2 - 6A	950	900	2,2	5,4	31500	22
ARMO-C / 900-6 / 3 - 6A	950	900	3	6,9	36750	28
ARMO-C / 900-6 / 4 - 6A	955	900	4	9	40950	32
ARMO-C / 900-9 / 1,5 - 6A	945	900	1,5	3,6	23100	14
ARMO-C / 900-9 / 2,2 - 6A	950	900	2,2	5,4	27300	20
ARMO-C / 900-9 / 3 - 6A	950	900	3	6,9	35700	24
ARMO-C / 900-9 / 4 - 6A	955	900	4	9	39900	30
ARMO-C / 900-9 / 5,5 - 6A	985	900	5,5	12,3	43050	32
ARMO-C / 1000-6 / 1,5 - 6A	945	1000	1,5	3,6	26250	10
ARMO-C / 1000-6 / 2,2 - 6A	950	1000	2,2	5,4	34650	16
ARMO-C / 1000-6 / 3 - 6A	950	1000	3	6,9	44100	22
ARMO-C / 1000-6 / 4 - 6A	955	1000	4	9	49350	26
ARMO-C / 1000-6 / 5,5 - 6A	985	1000	5,5	12,3	55650	32
ARMO-C / 1000-9 / 2,2 - 6A	950	1000	2,2	5,4	32550	14
ARMO-C / 1000-9 / 3 - 6A	950	1000	3	6,9	39900	20
ARMO-C / 1000-9 / 4 - 6A	955	1000	4	9	43050	22
ARMO-C / 1000-9 / 5,5 - 6A	985	1000	5,5	12,3	52500	28
ARMO-C / 1000-9 / 7,5 - 6A	960	1000	7,5	15	57750	32
ARMO-C / 1250-6 / 4 - 6A	955	1250	4	9	60900	12
ARMO-C / 1250-6 / 5,5 - 6A	985	1250	5,5	12,3	63300	16
ARMO-C / 1250-6 / 7,5 - 6A	960	1250	7,5	15	76650	20
ARMO-C / 1250-6 / 11 - 6A	960	1250	11	22	92400	26
ARMO-C / 1250-6 / 15 - 6A	965	1250	15	29	105000	32
ARMO-C / 1250-9 / 7,5 - 6A	960	1250	7,5	15	73500	16
ARMO-C / 1250-9 / 11 - 6A	960	1250	11	22	88200	22
ARMO-C / 1250-9 / 15 - 6A	965	1250	15	29	105000	28
ARMO-C / 1250-9 / 18,5 - 6A	970	1250	18,5	36,5	115500	32

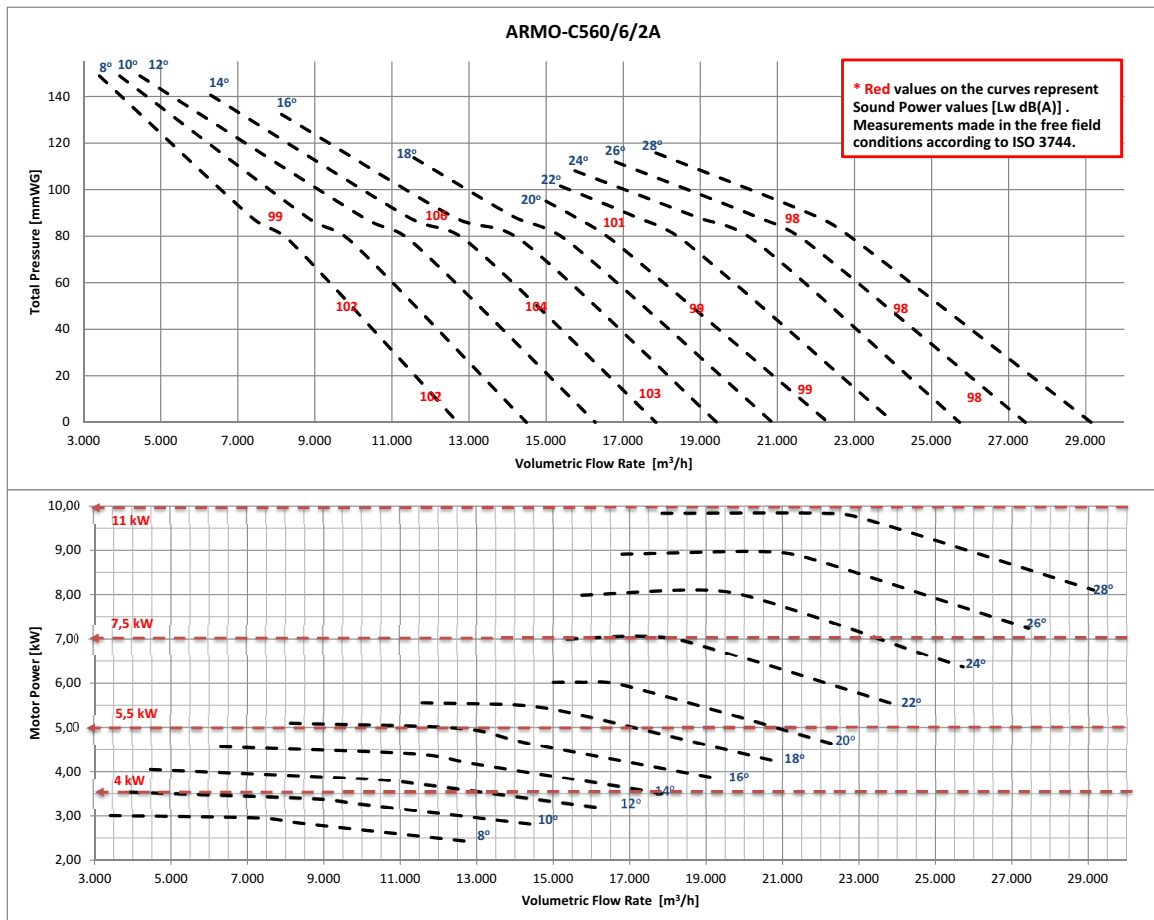
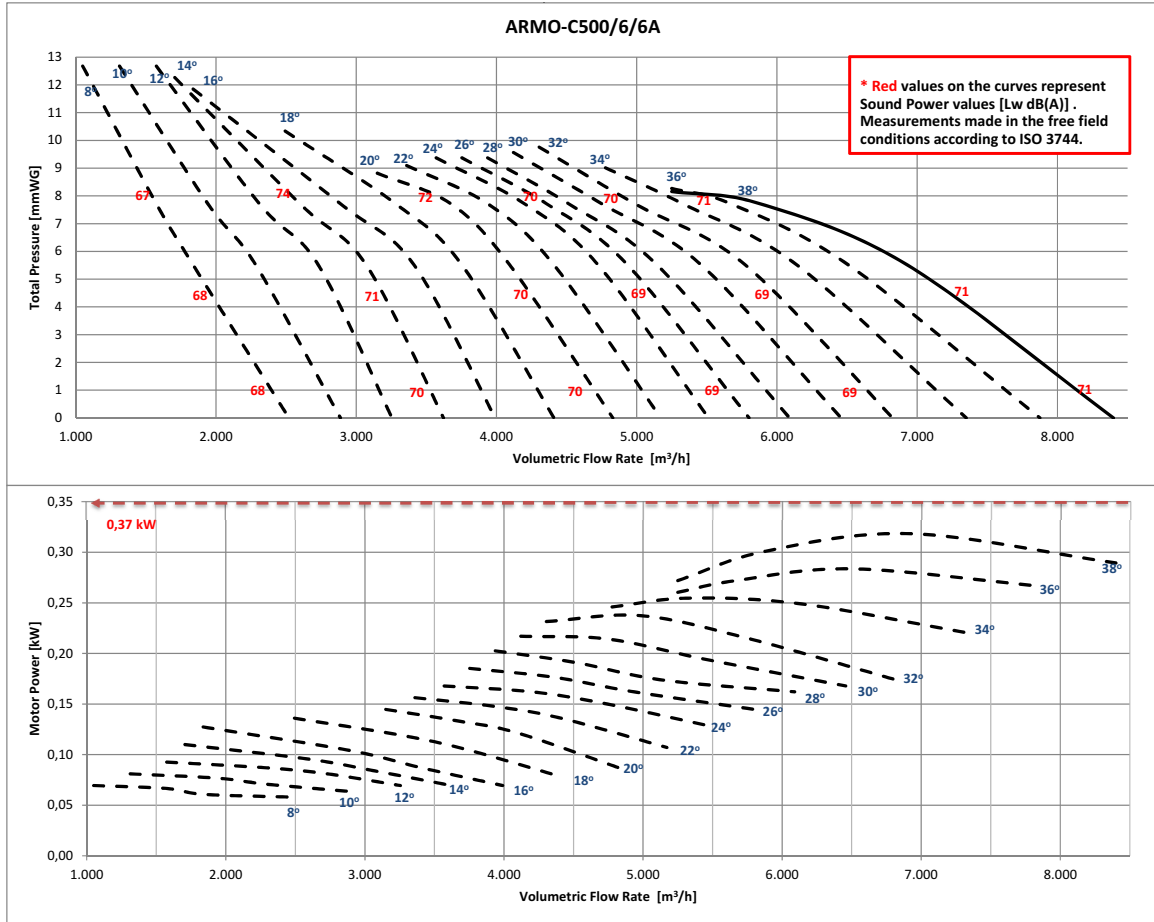
Accessories

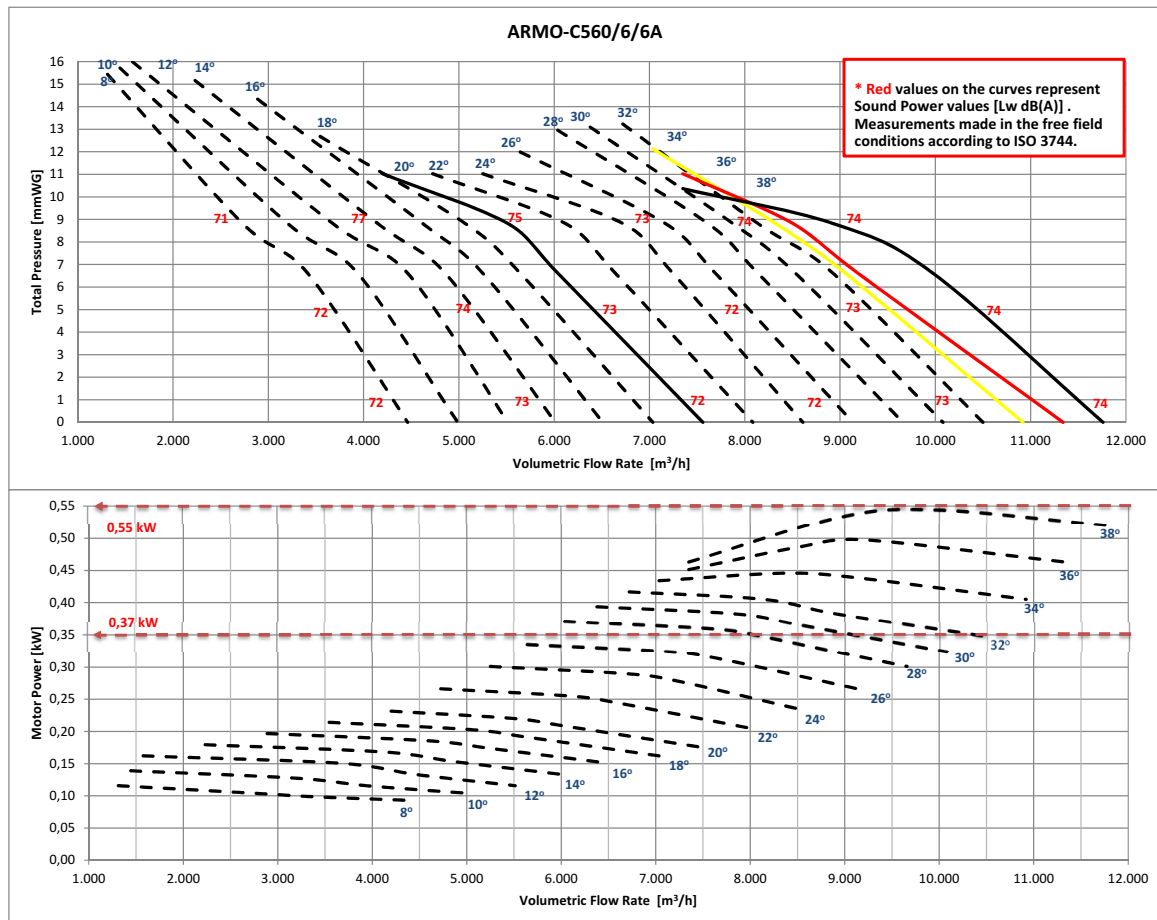
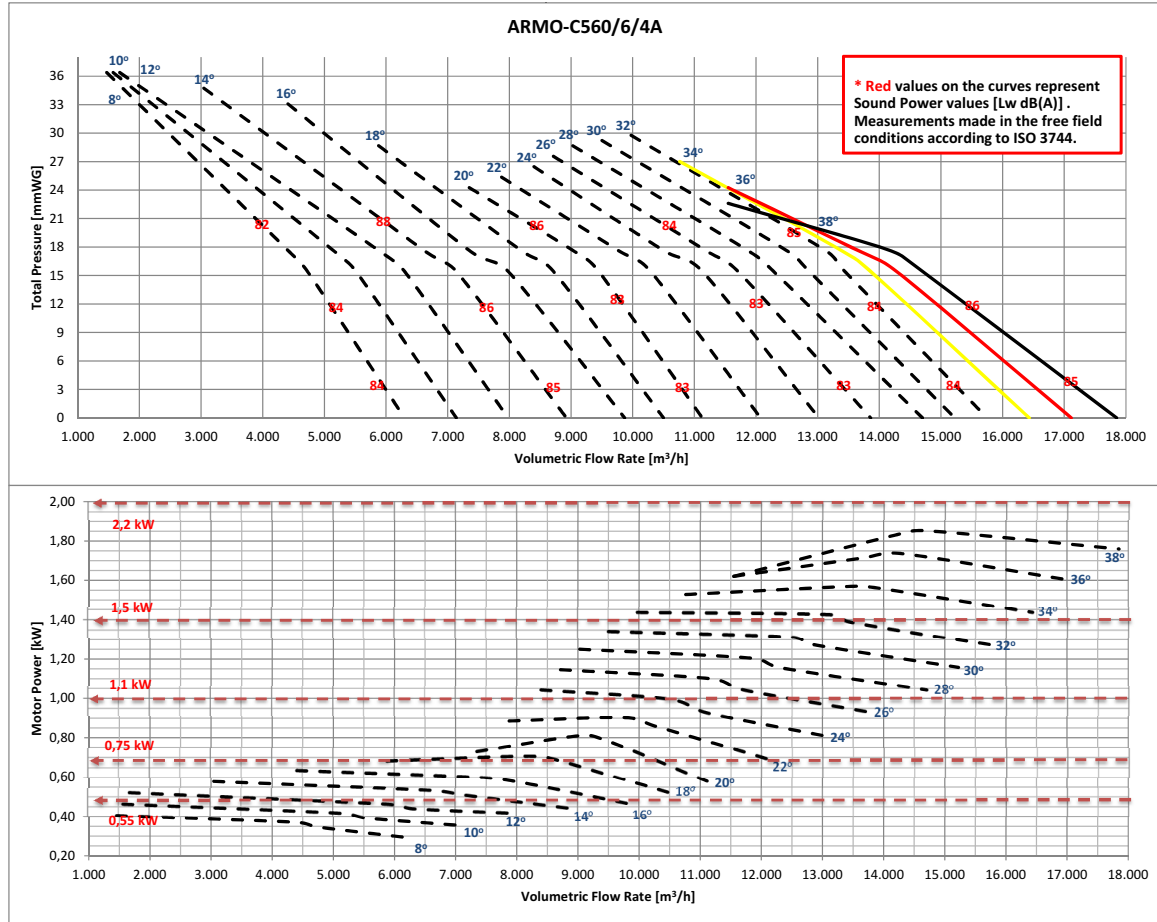


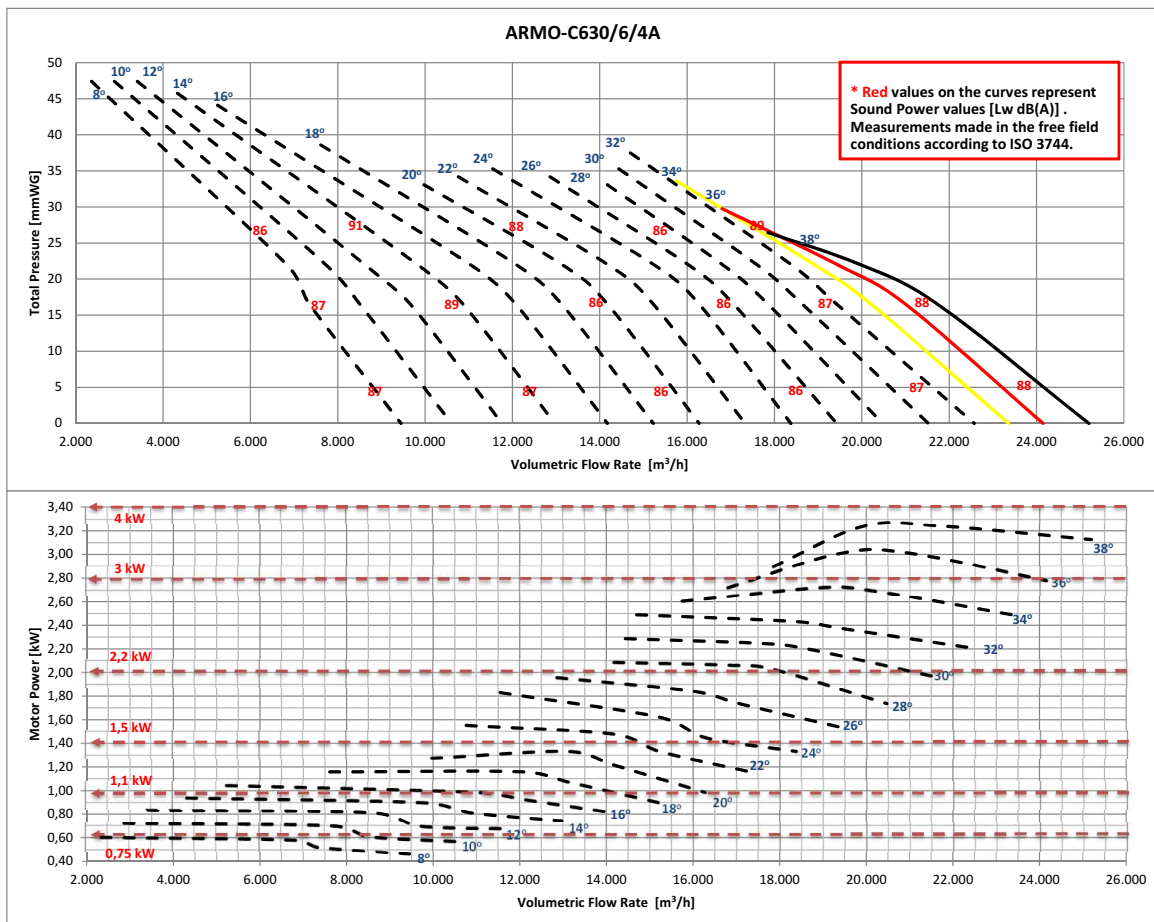
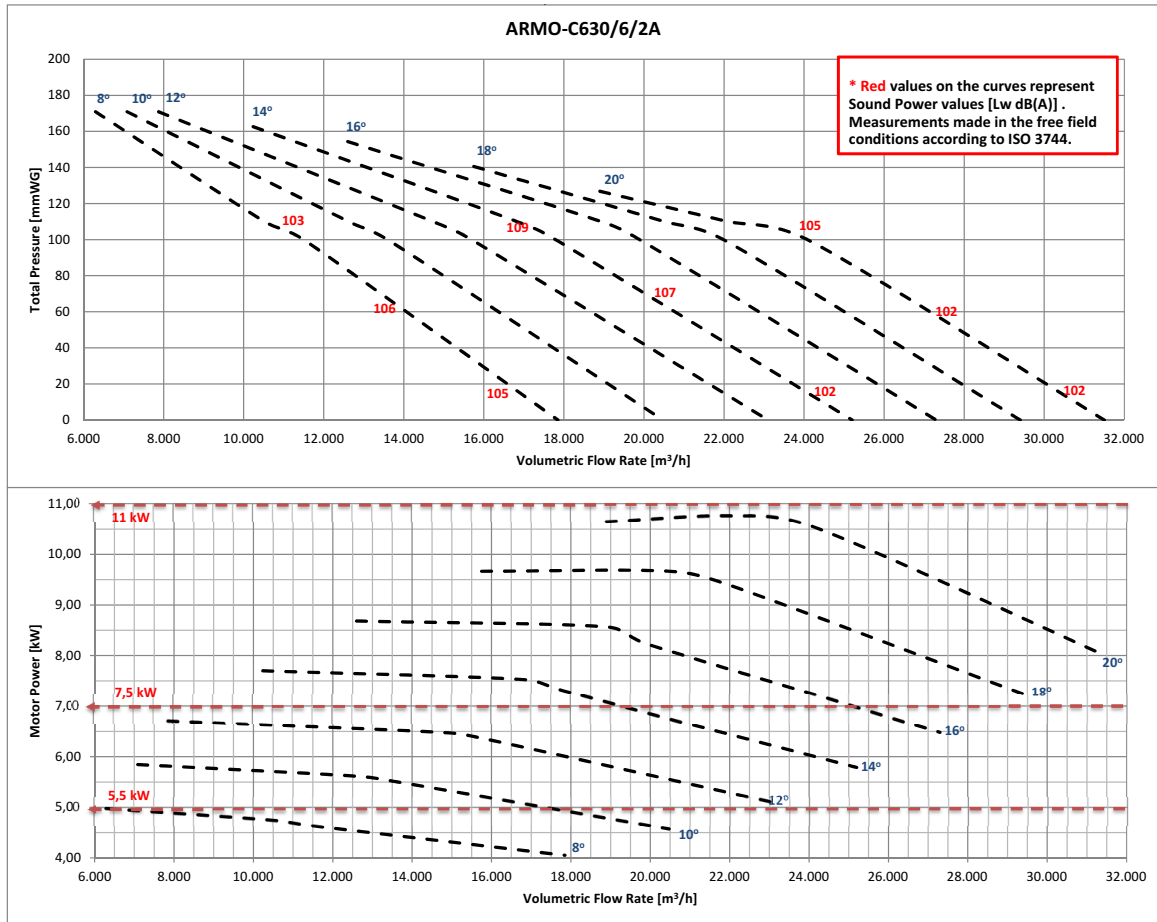


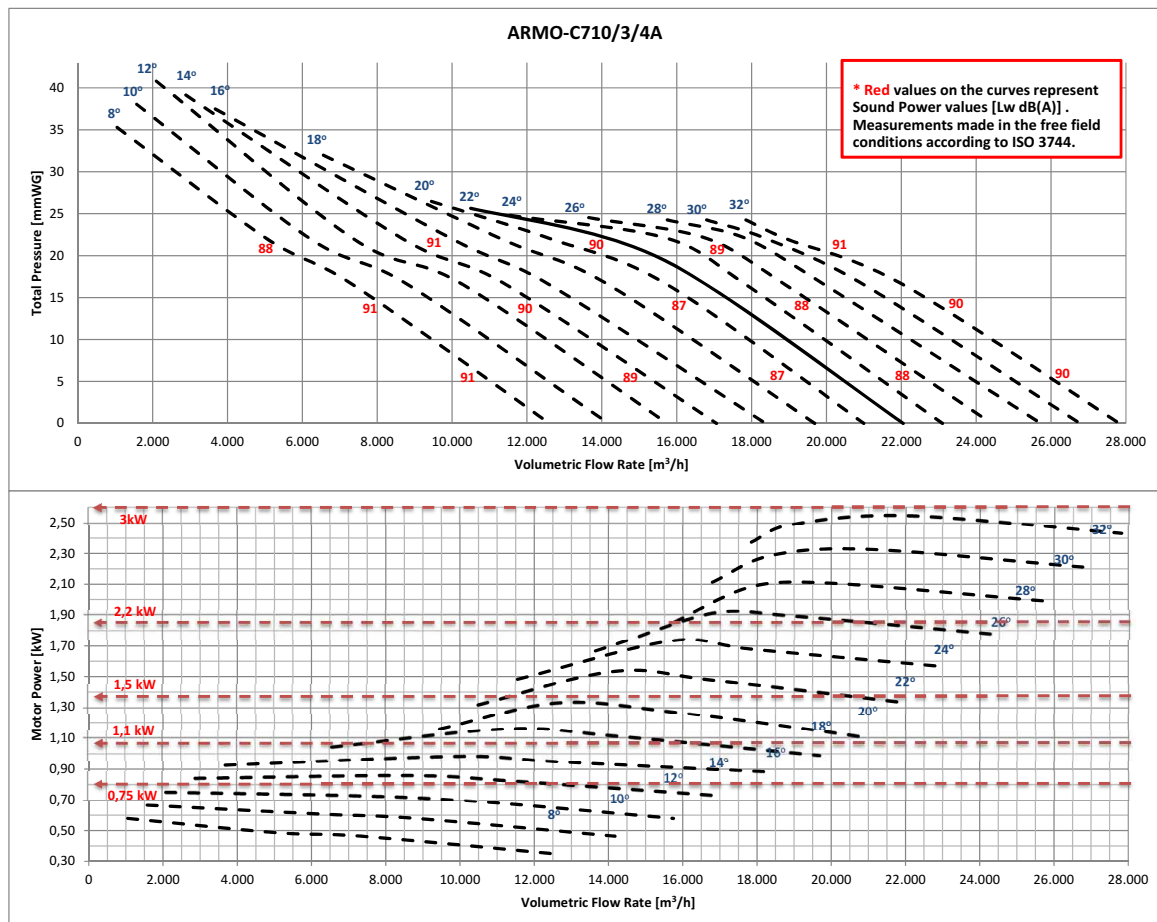
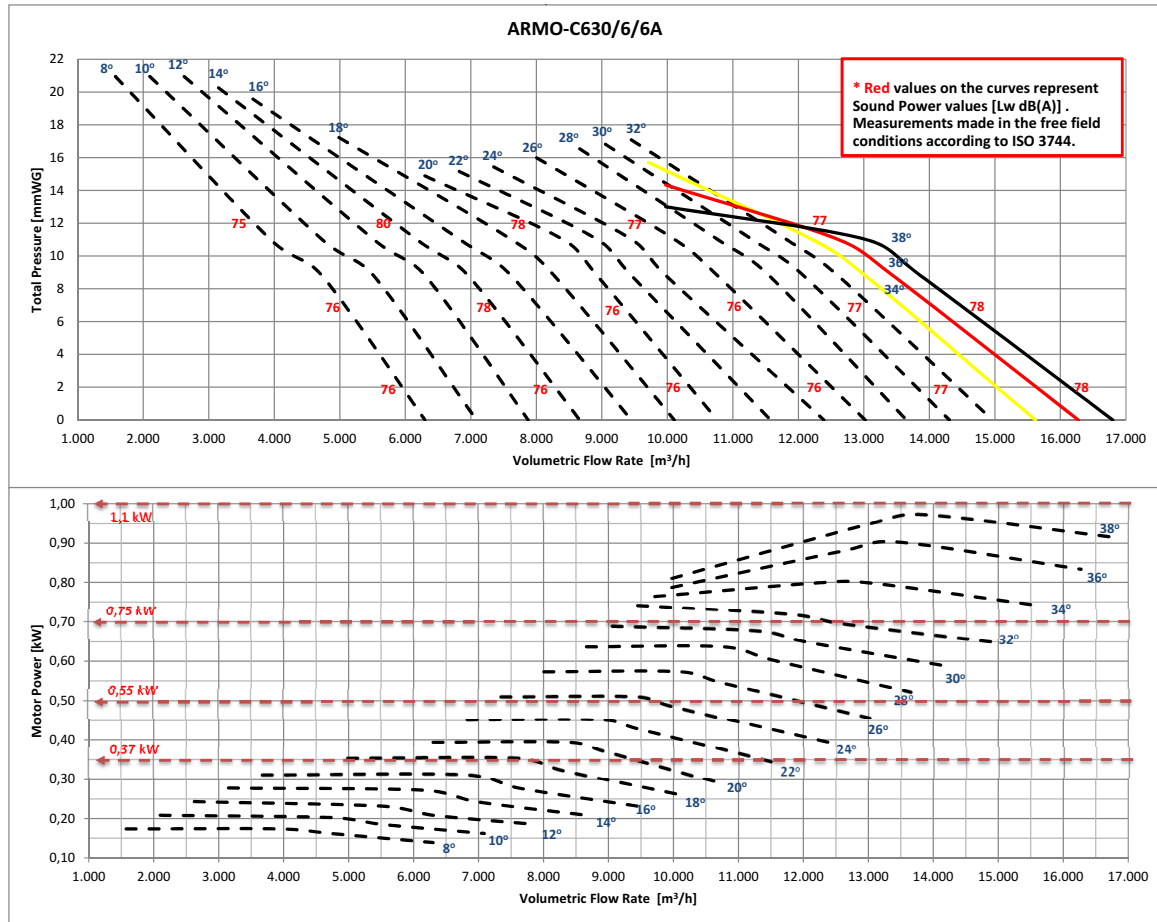


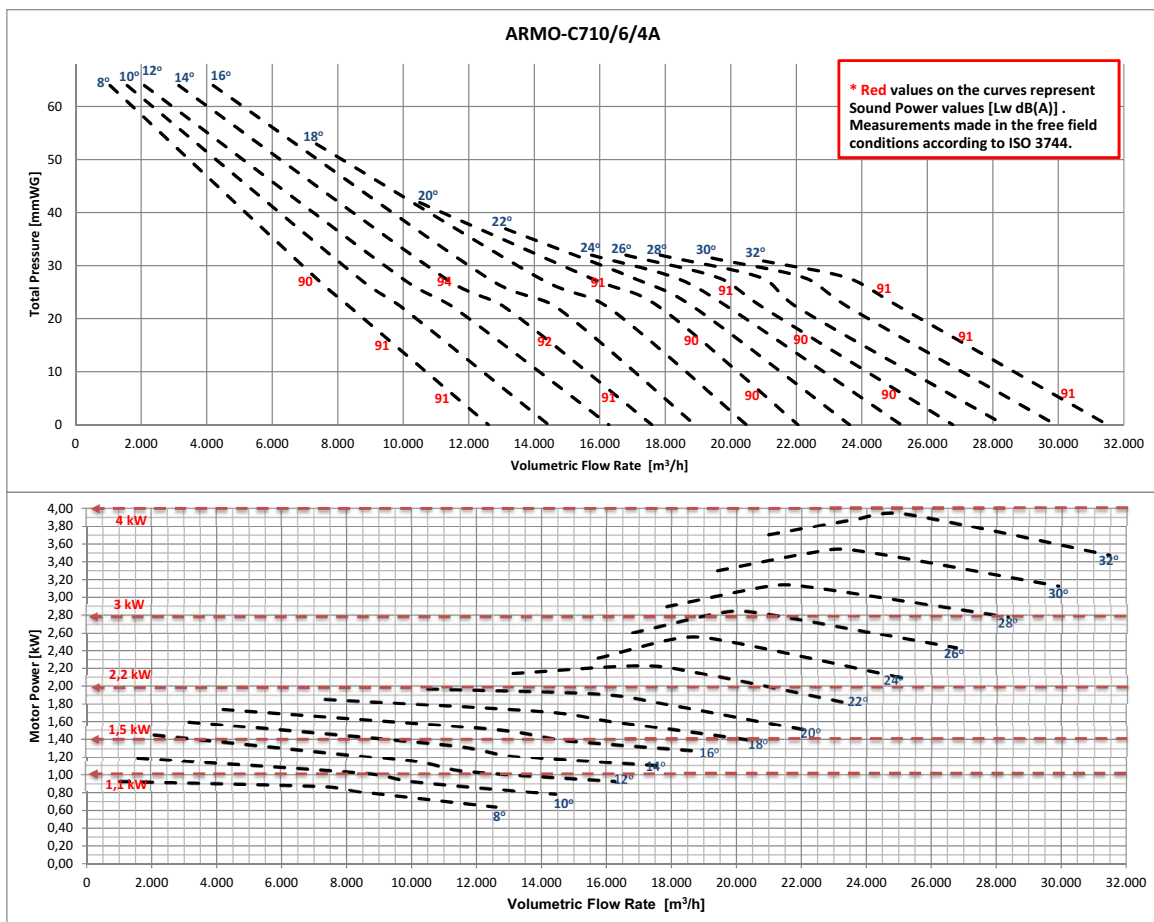
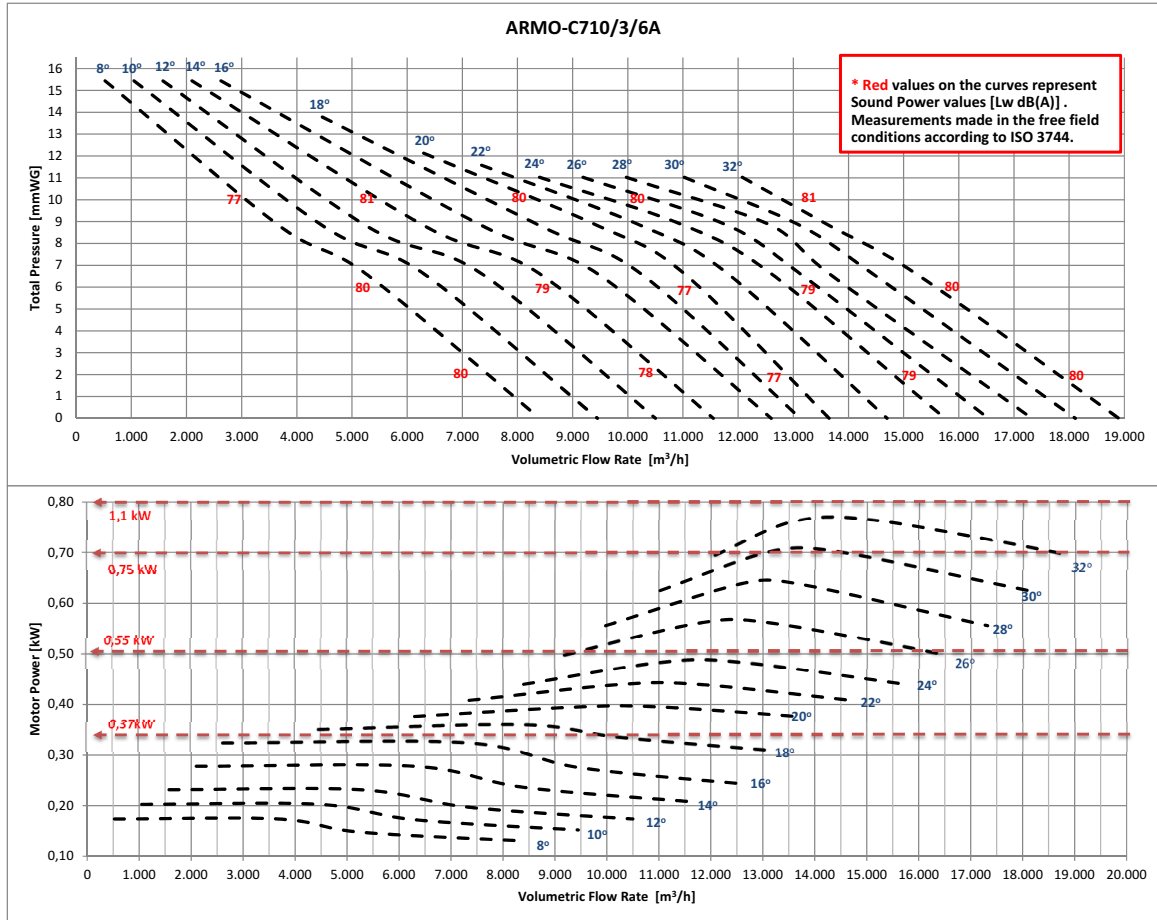


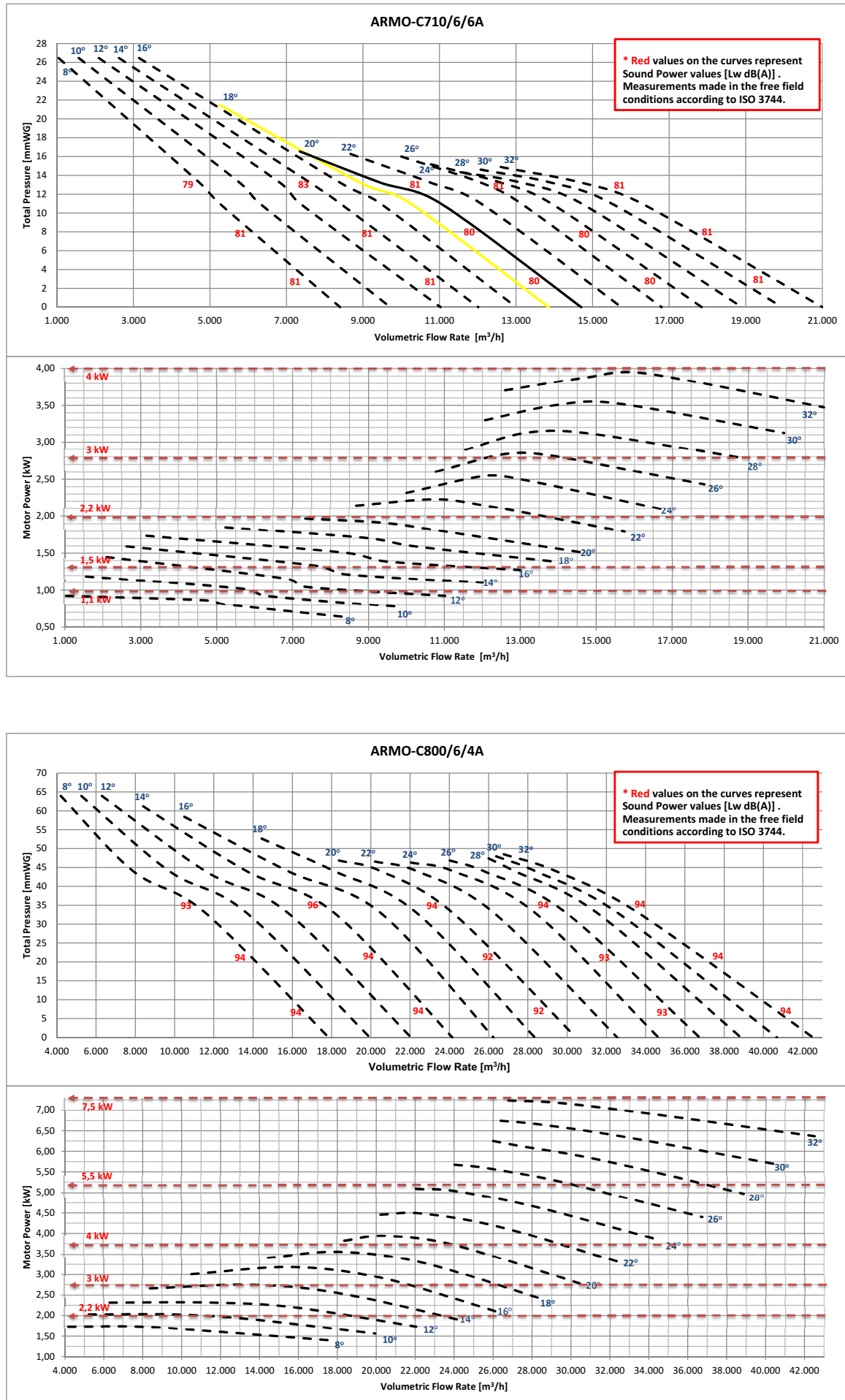


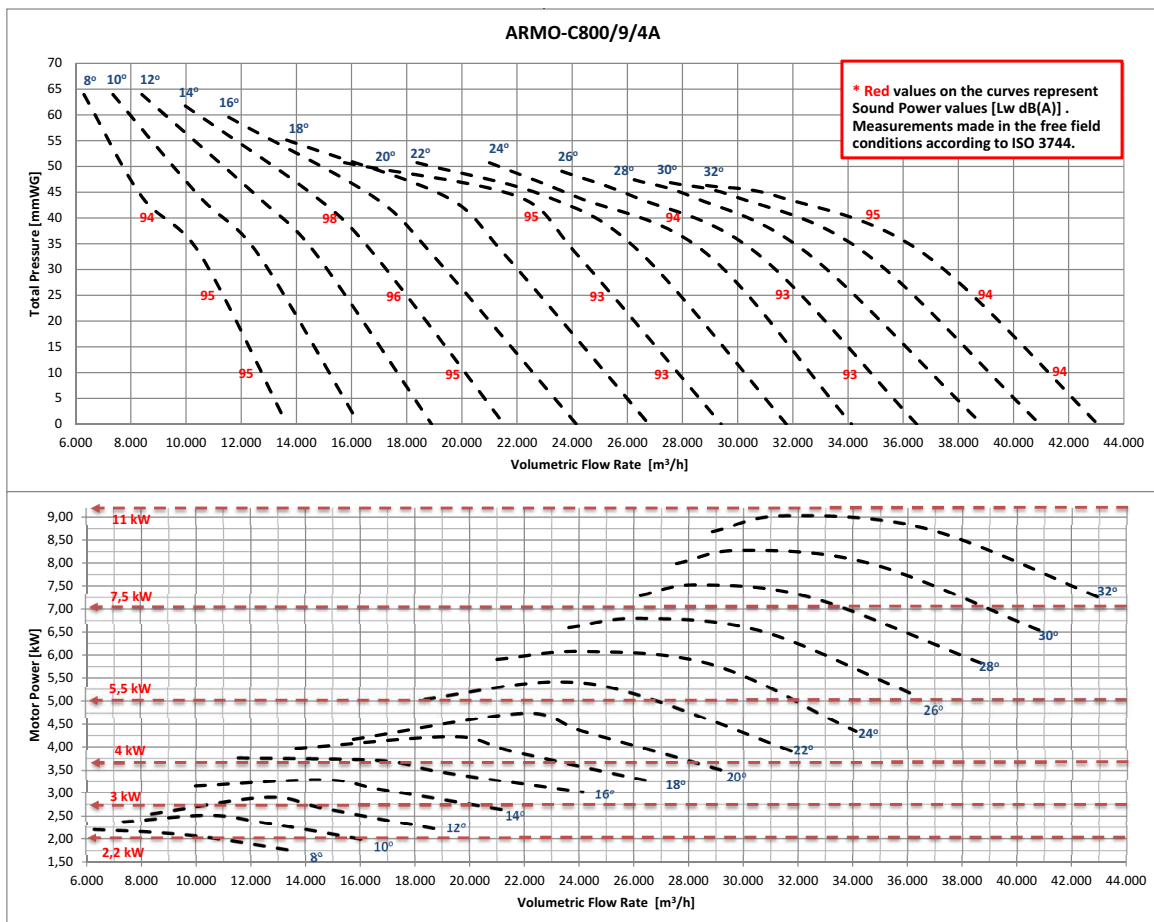
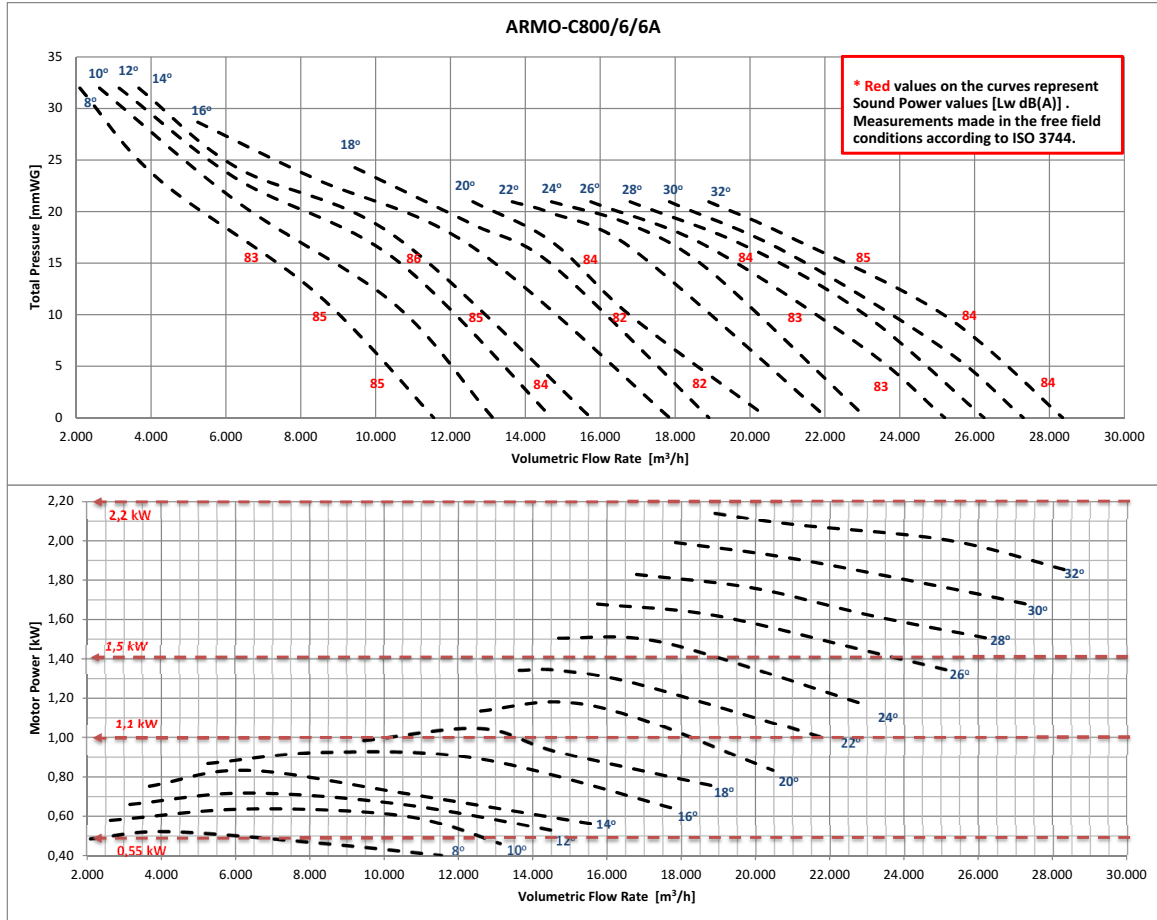


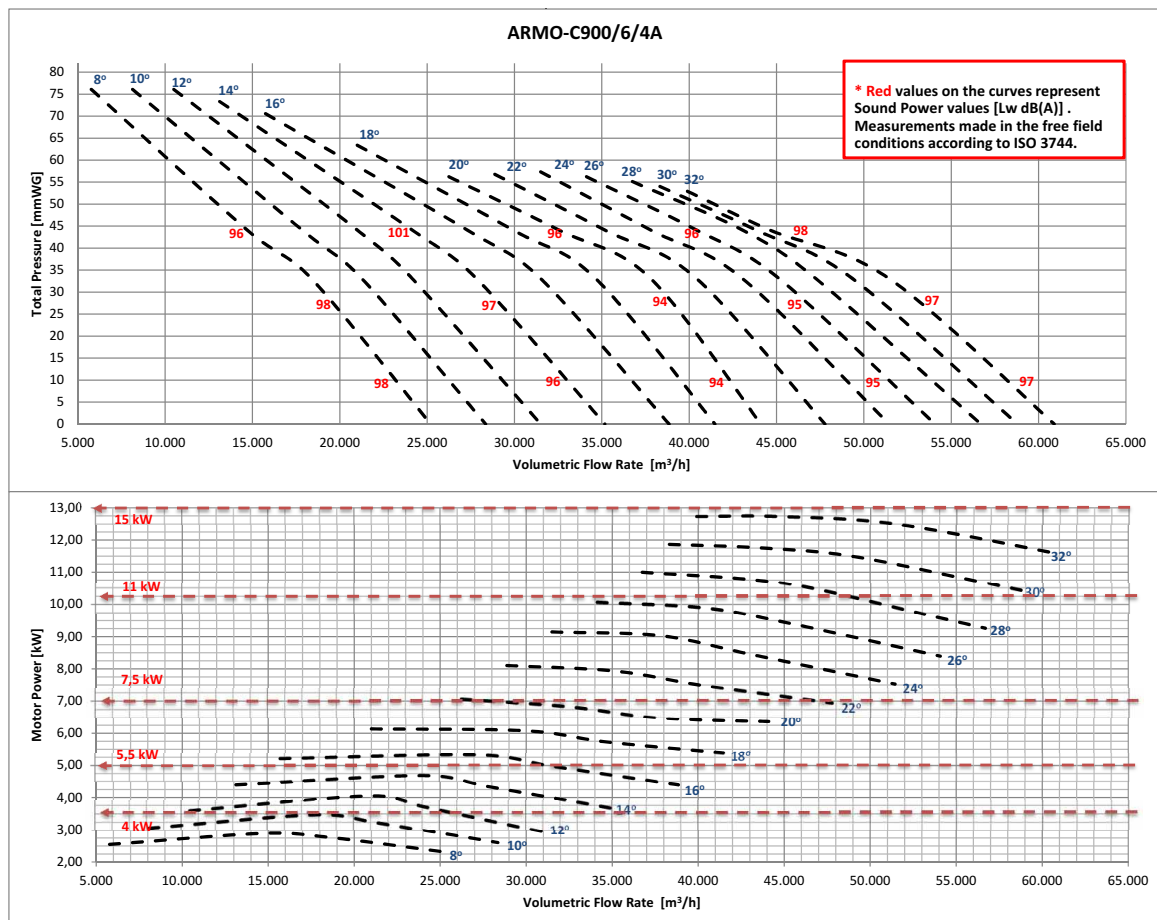
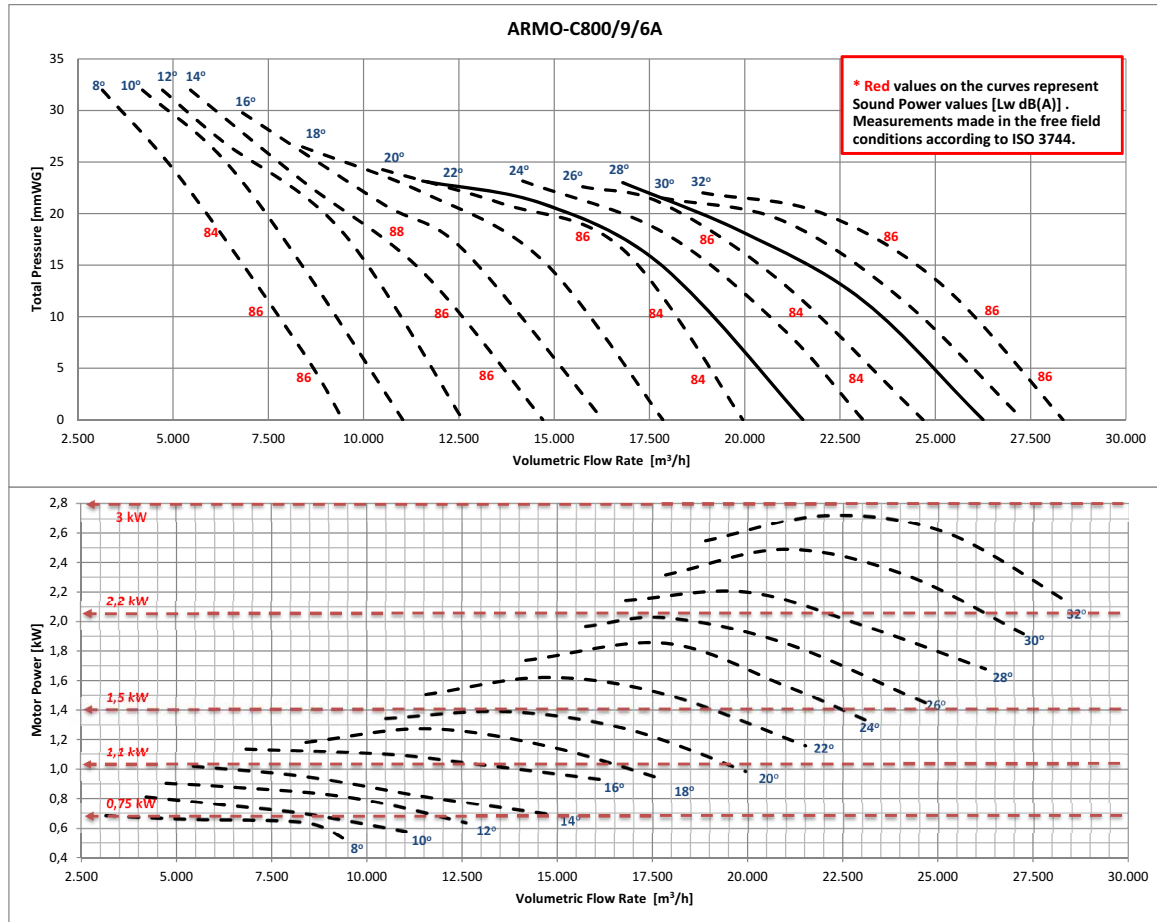


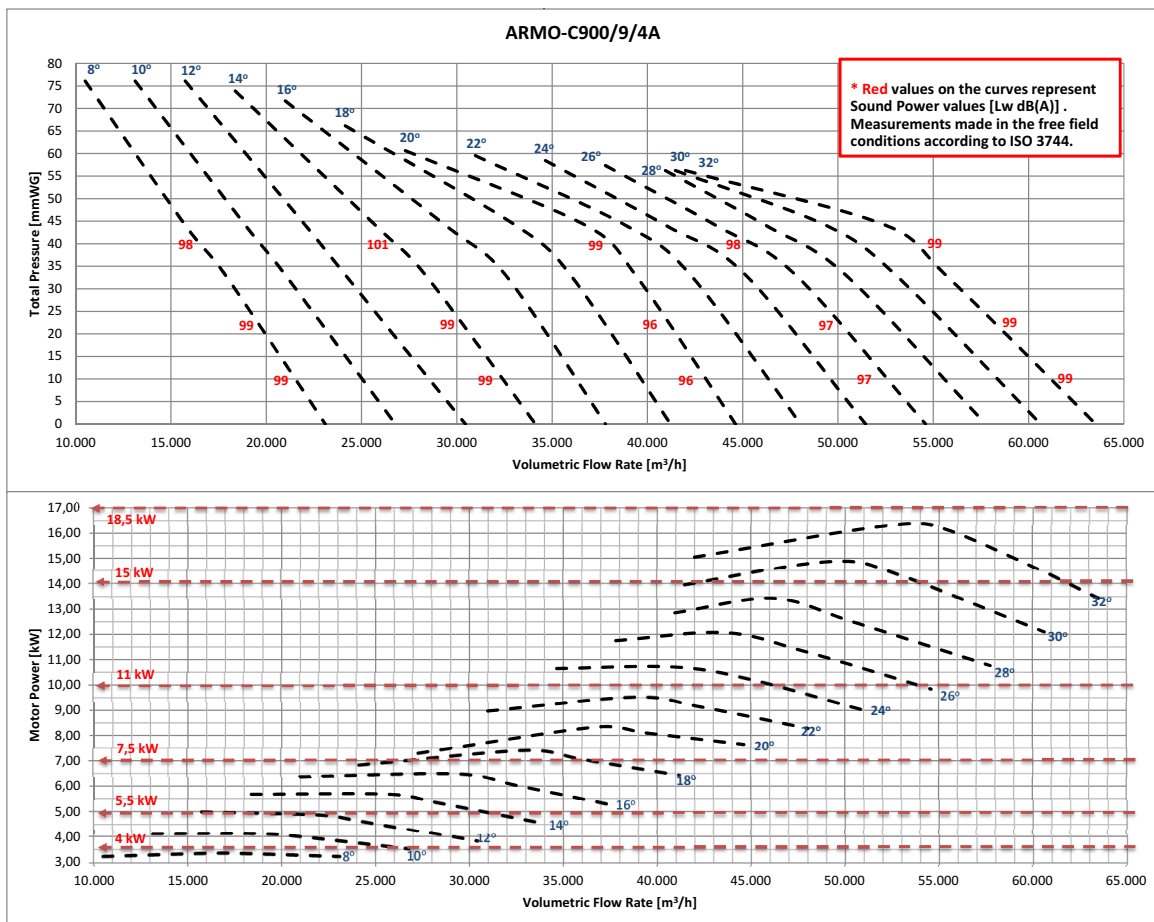
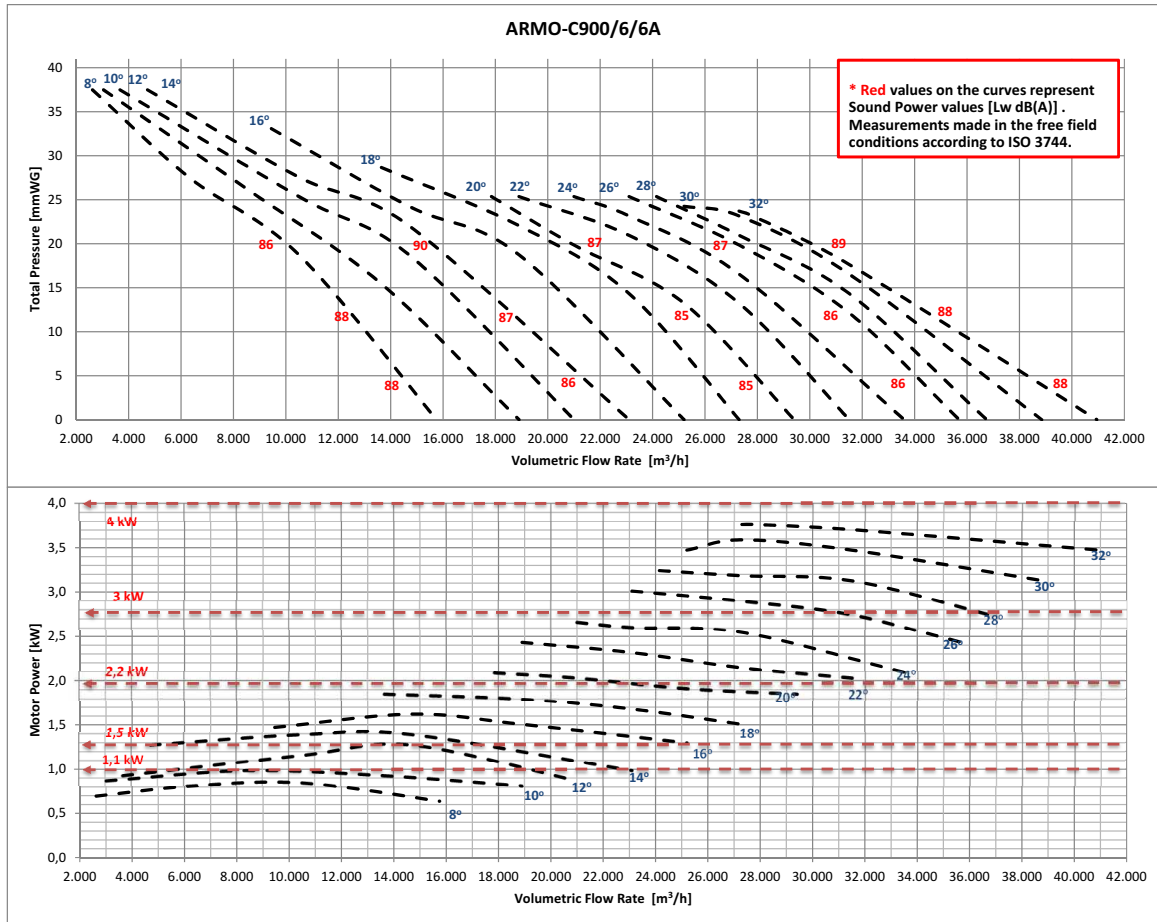


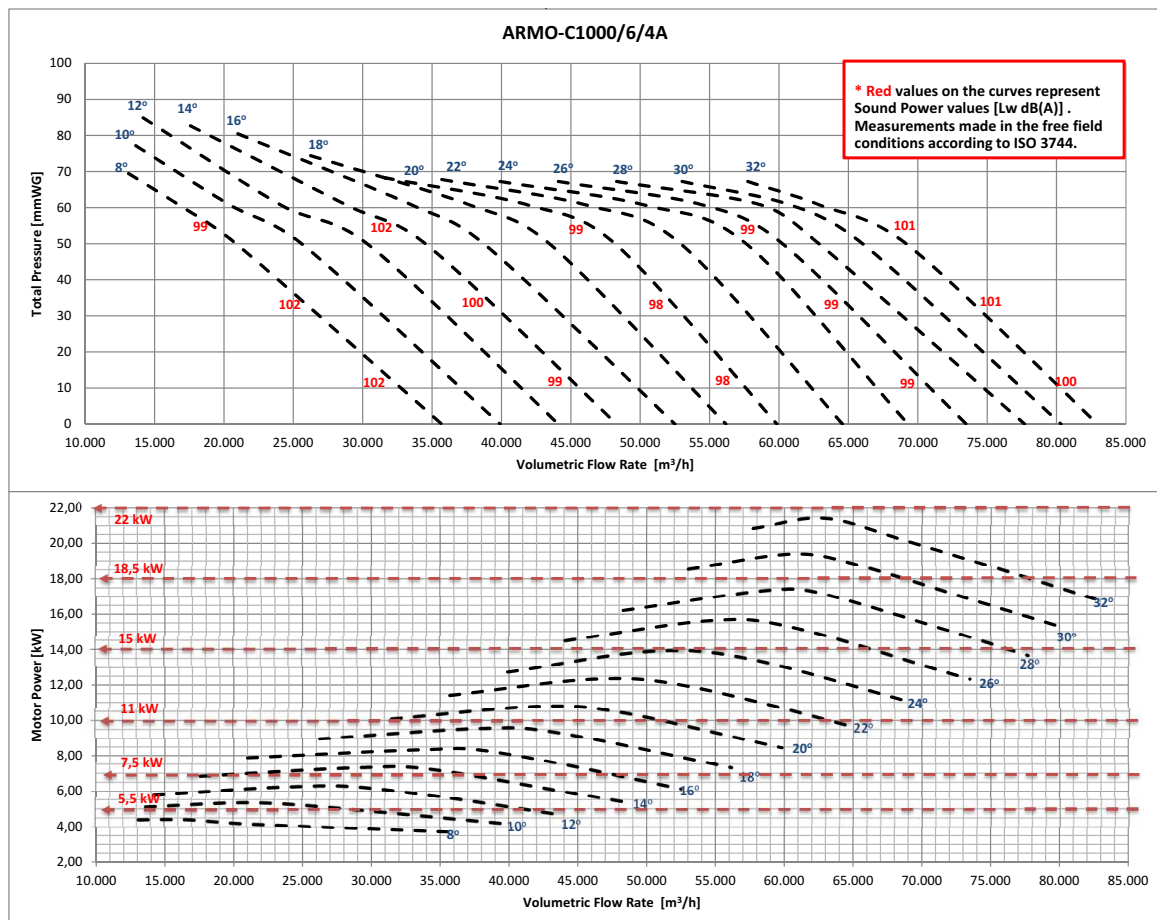
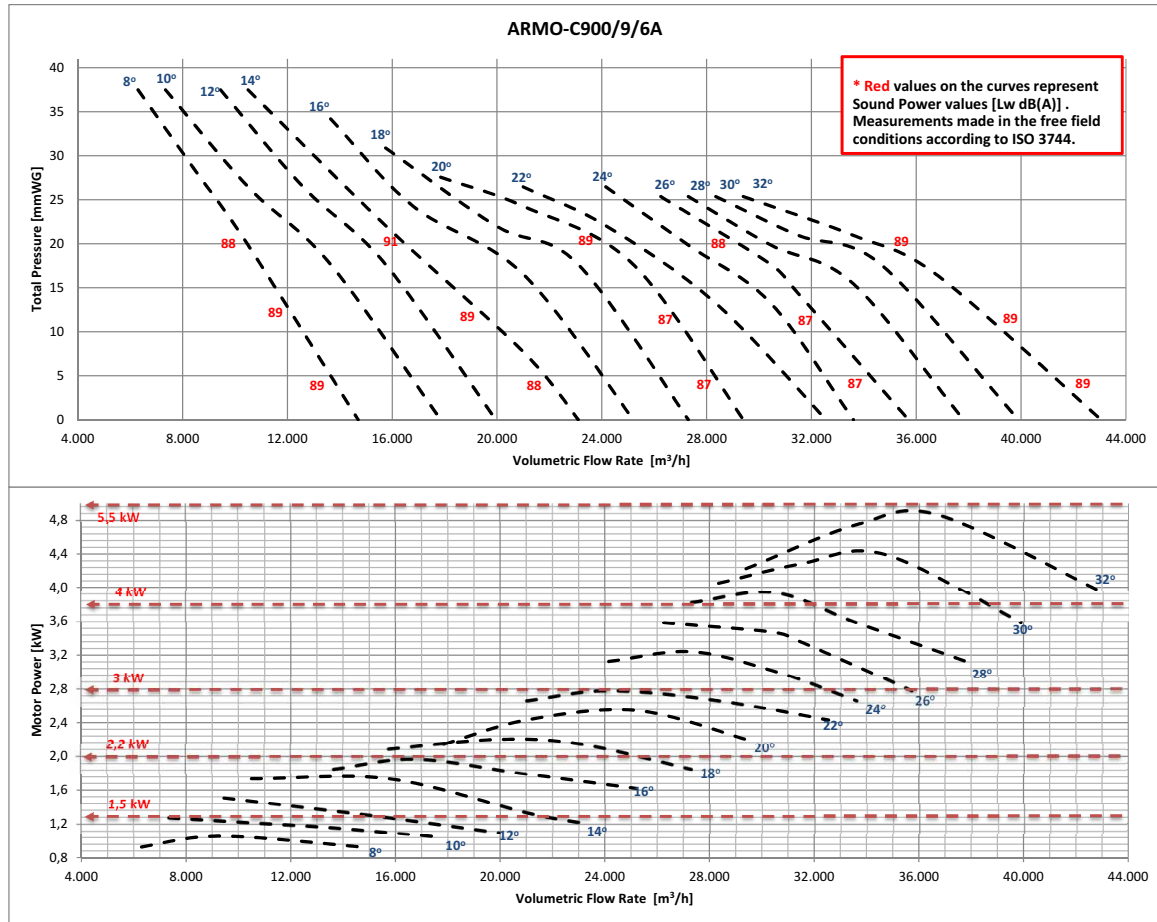


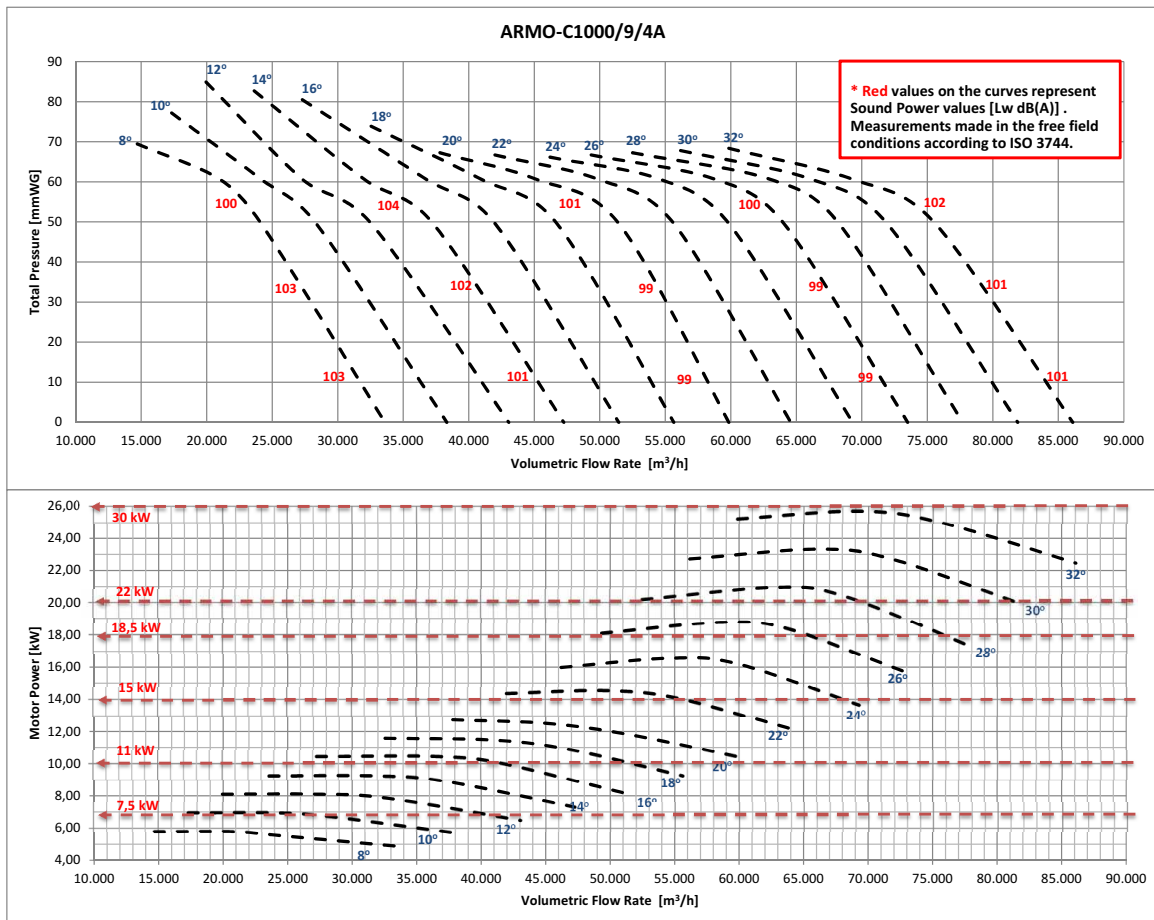
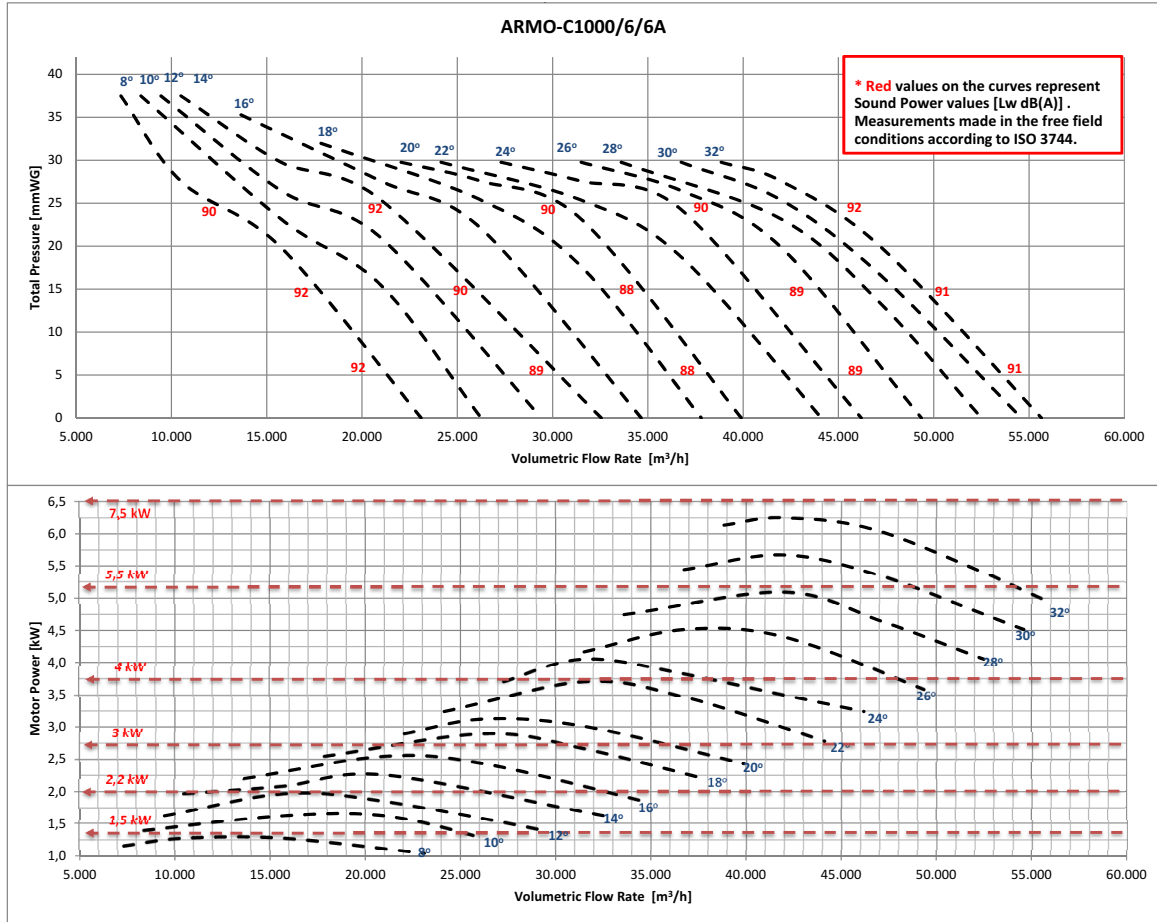


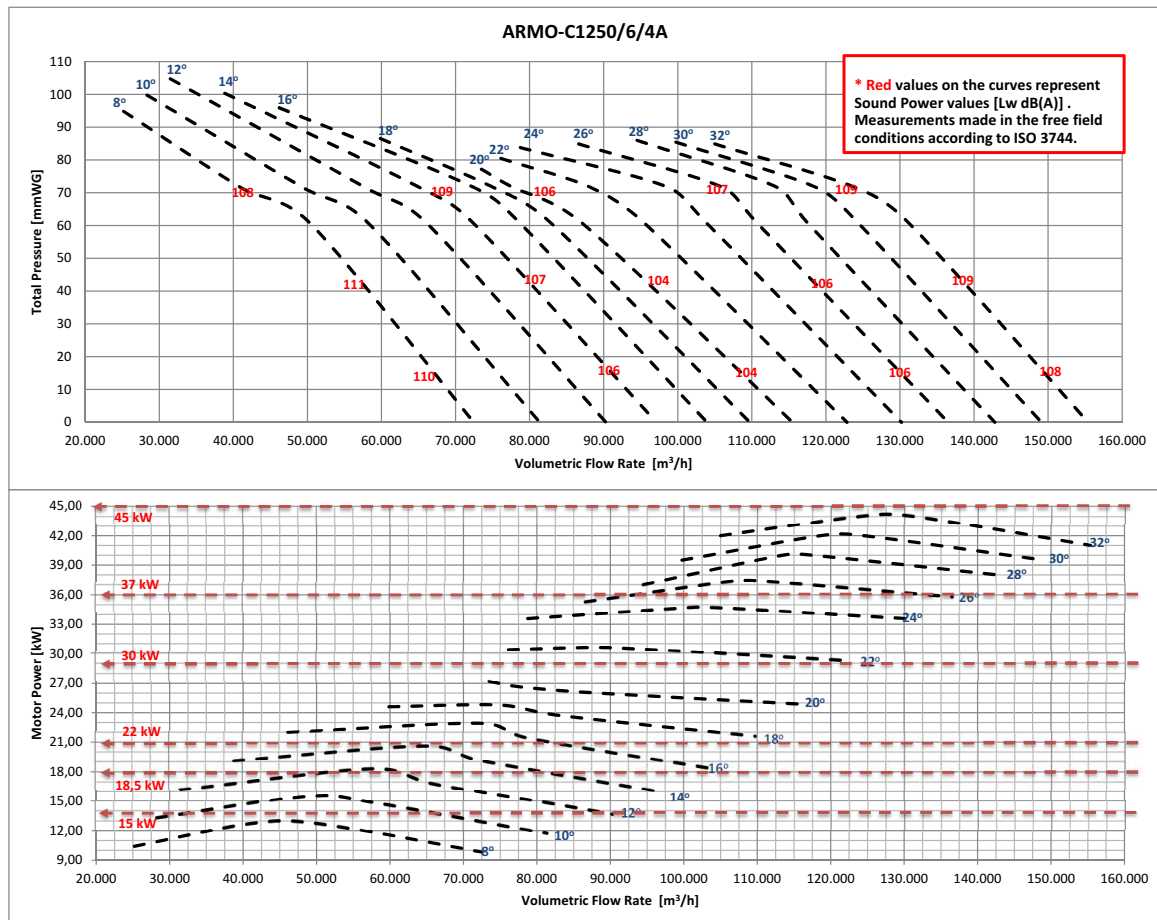
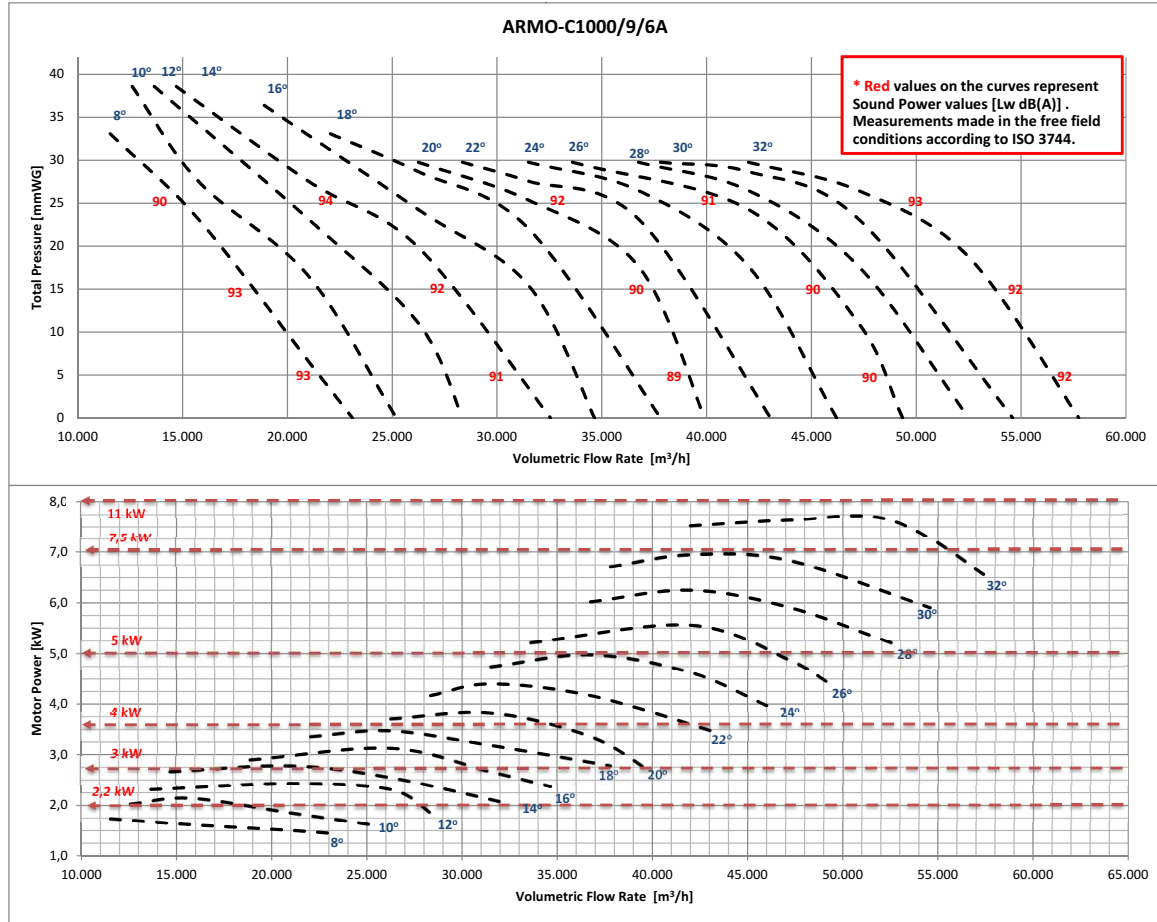


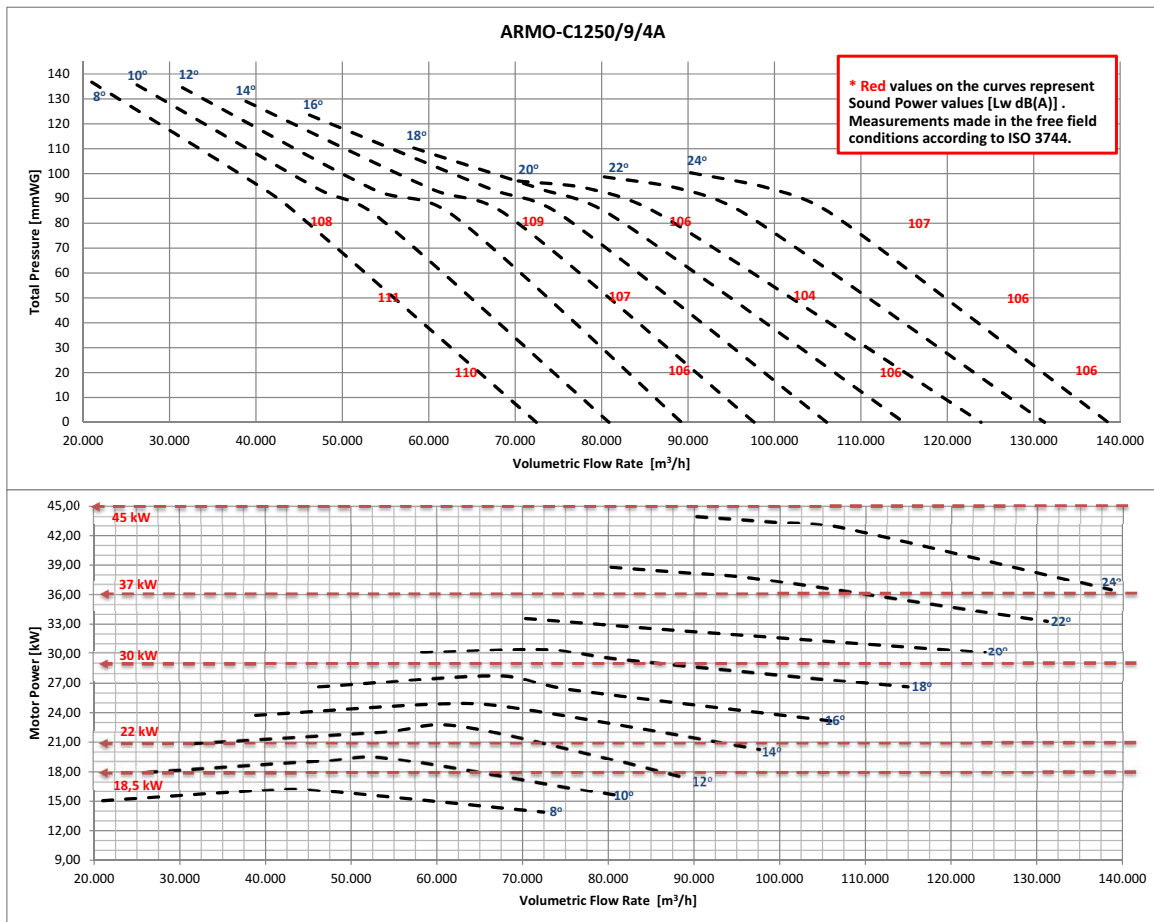
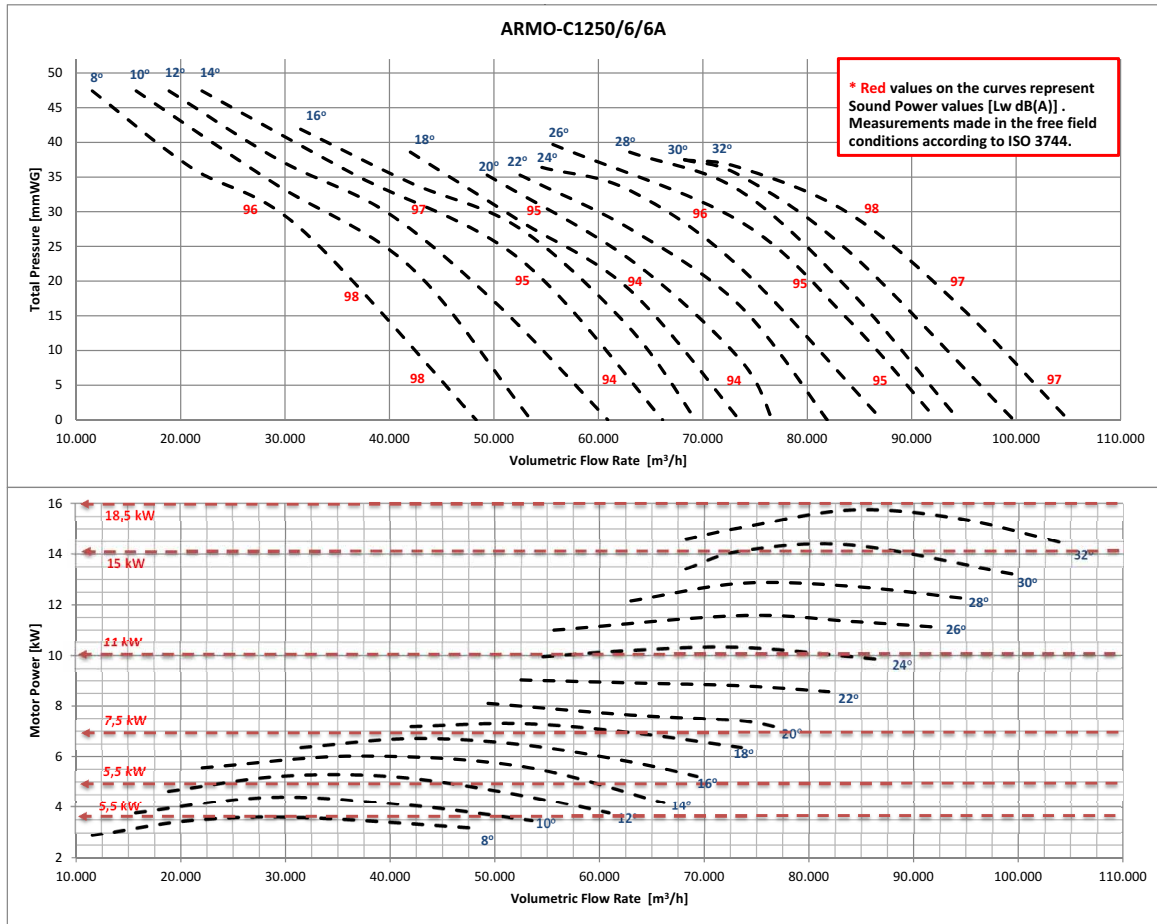


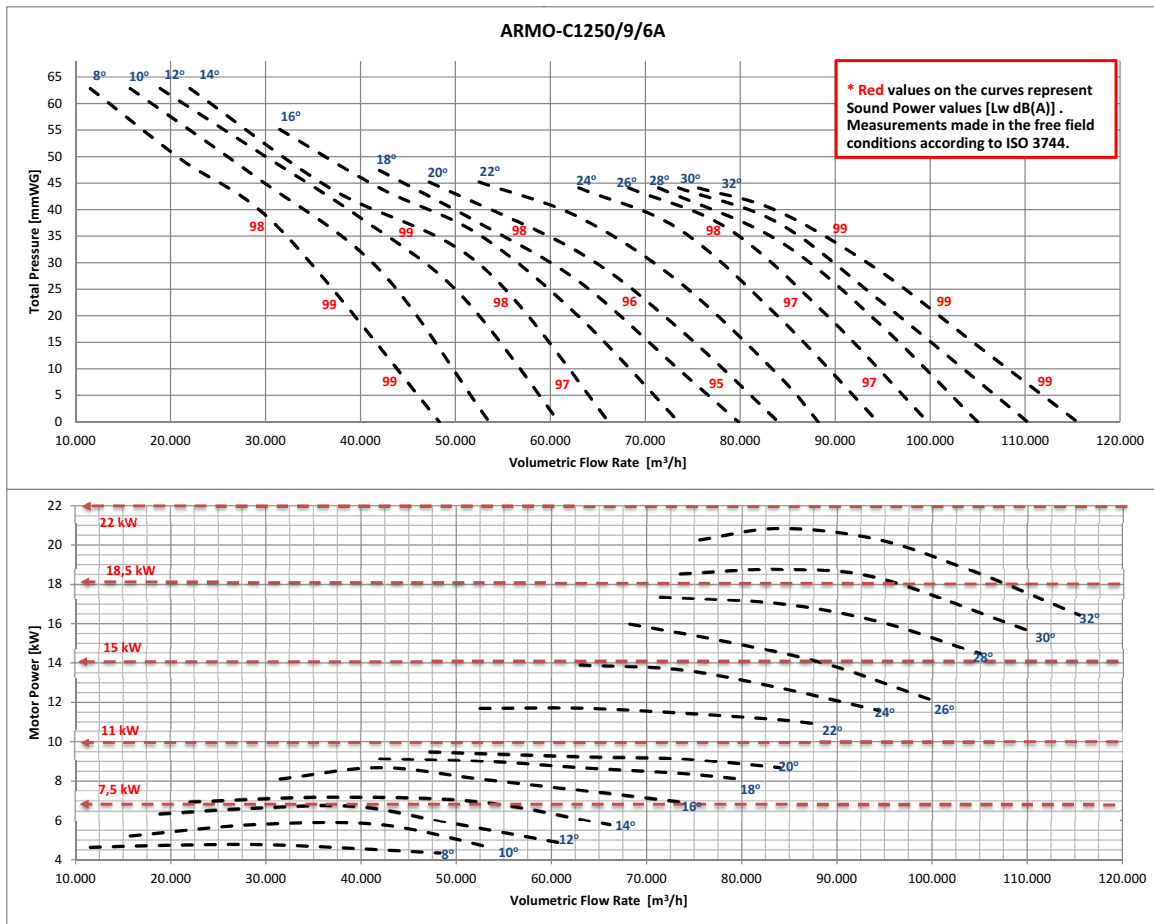


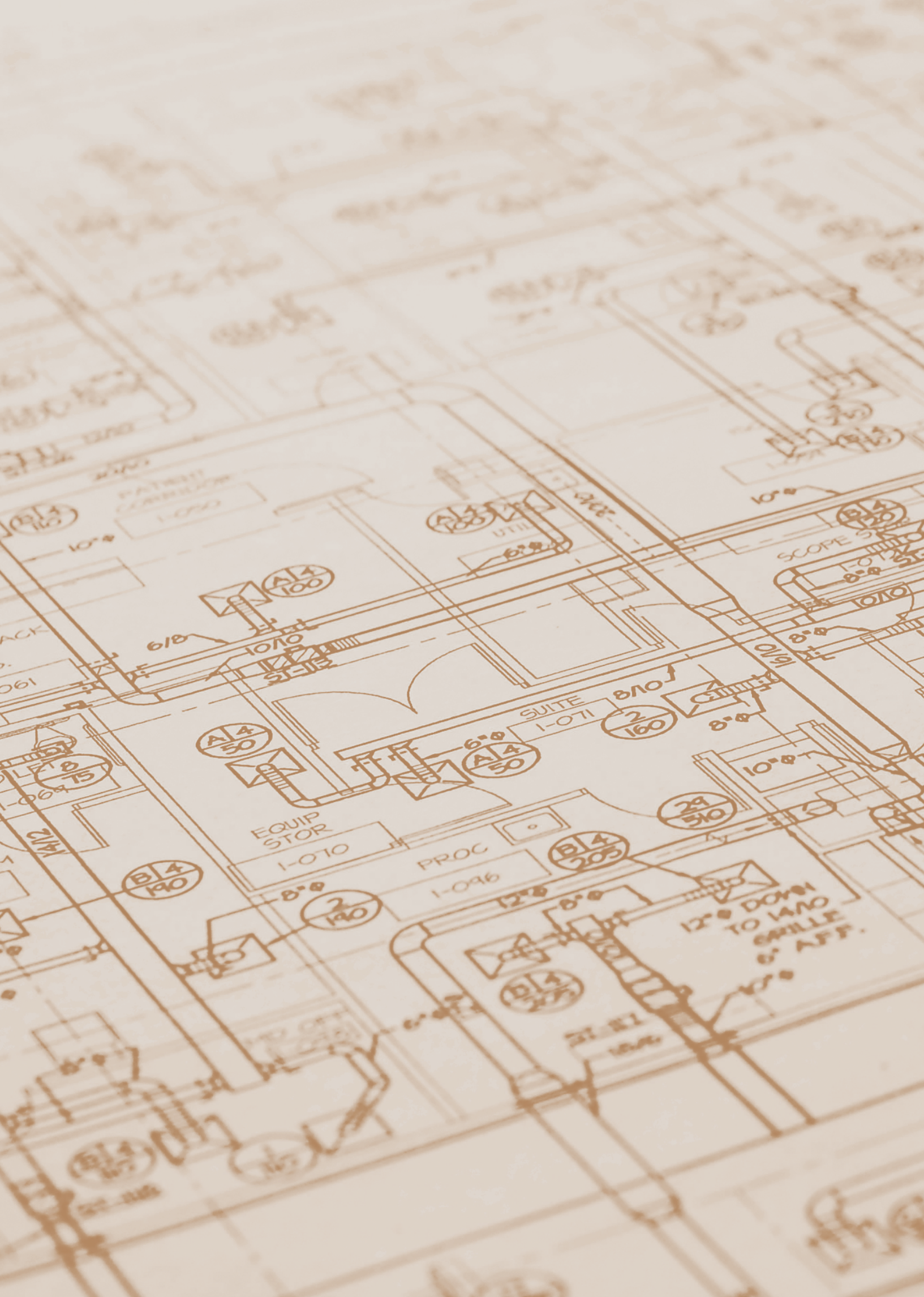














SHELTER FANS

Shelter Fans
Filtered Duct Fans

SHELTER FANS

BVN Shelter Fans are to provide the fresh air needed to indoors. These types can be used in two different positions: normal time and war time.

At normal time, fresh air only passes through G4 Filter and send air to the inner zones. At war time, the fresh air passes through the active carbon filter and nuclear Hepa filter to the inner zones with purifying the most of the possible chemical gases.

Due to our testings; bypass air dampers can not fully be sealed and efficient as much as bypass panels which are used in our devices.

It has been identified that bypass air damper is not fully sealed instead, it was seen that the bypass panel was more efficient in the tests and it was used in our devices.

SHELTER FAN TYPE

DUCT TYPE



CABINET TYPE







BSH

DUCT TYPE SHELTER FANS

Fan Components and Material Properties

The body is manufactured from galvanized sheet metal. Some of the BSH models are made of high quality galvanized steel which is resistant to corrosion and some models are made of aluminum material to meet their performance requirements. All models have an external rotor motor with closed structure. The device is capable of handling air 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

Bypass air dampers have been found not to be fully sealed. Instead, it is seen that the sliding sys-

tem bypass panel is more efficient in the tests and it has been used in our devices. It can be operated in the desired position.

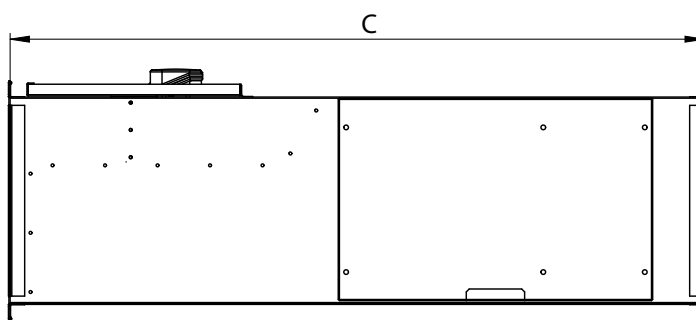
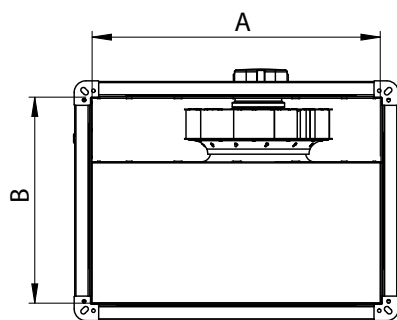
Speed Control

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 used for supplying fresh air to the shelters. They can be used in two different positions: normal time and war time. In normal time, the air is passed through the G4filter only to the interior. In the time of war, fresh air; It can be sent to the interior by passing through the activated carbon filter and nuclear hepa filter which can purify the possible chemical (nuclear) gases.

Technical Drawing and Tables

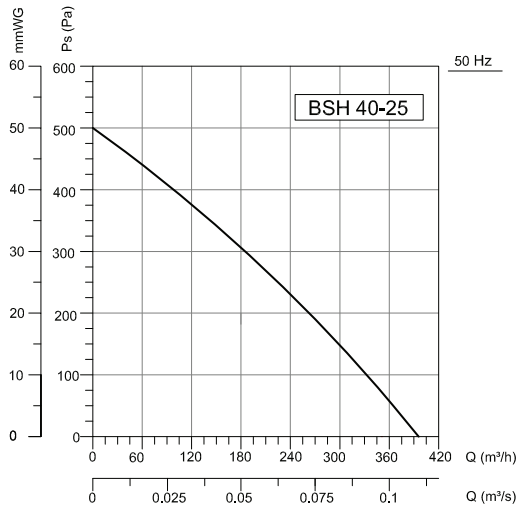


TYPE	A	B	C
BSH 40-25	400	250	1000
BSH 50-35A	500	350	1200
BSH 50-35B	500	350	1200
BSH 80-45A	800	450	1490
BSH 80-45B	800	450	1490
BSH 100-65A	1000	650	1750
BSH 100-65B	1000	650	1750

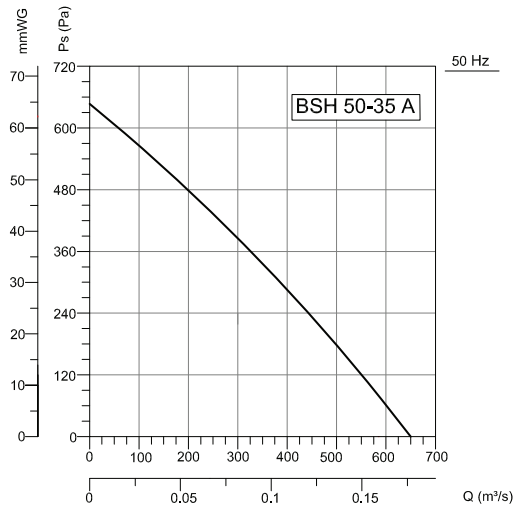
Dimensions are in (mm)

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
BSH 40-25	230	50	130	0,64	5	2675	400	50	B	44	28
BSH 50-35A	230	50	130	0,64	5	2675	650	52	B	44	53
BSH 50-35B	230	50	180	0,8	6	2635	750	55	B	44	55
BSH 80-45A	230	50	310	1,55	16	1430	1600	60	F	44	108
BSH 80-45B	230	50	500	2,5	18	1435	2200	62	F	44	112
BSH 100-65A	380	50	960	2	-	1350	3750	64	F	44	155
BSH 100-65B	380	50	1670	3	-	1350	4500	66	F	44	165

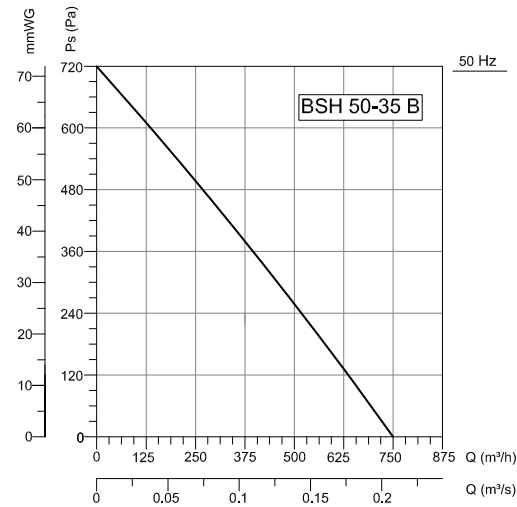
Sound Level Measured from 3m distance in room condition.



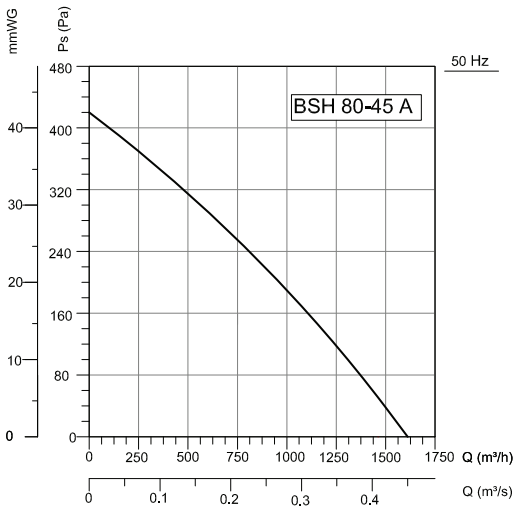
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	46	56	68	60	63	61	57	49	dB(A)
L_{WA} Outlet	74	46	55	69	66	65	68	63	60	dB(A)
L_{WA} Surrounding	57	22	36	55	47	46	46	40	37	dB(A)



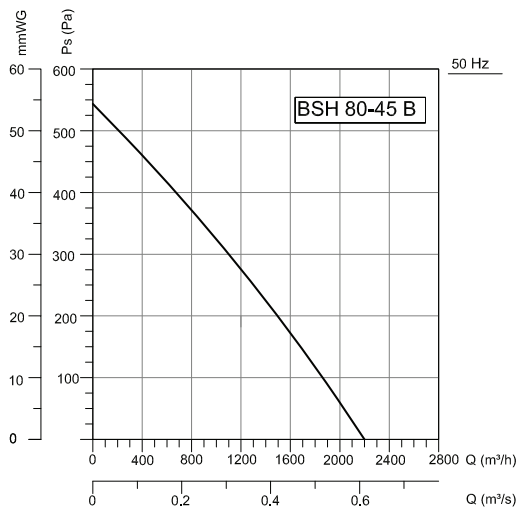
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	48	59	67	61	65	63	61	58	dB(A)
L_{WA} Outlet	76	49	59	68	67	68	71	65	67	dB(A)
L_{WA} Surrounding	59	29	33	53	52	52	53	45	43	dB(A)



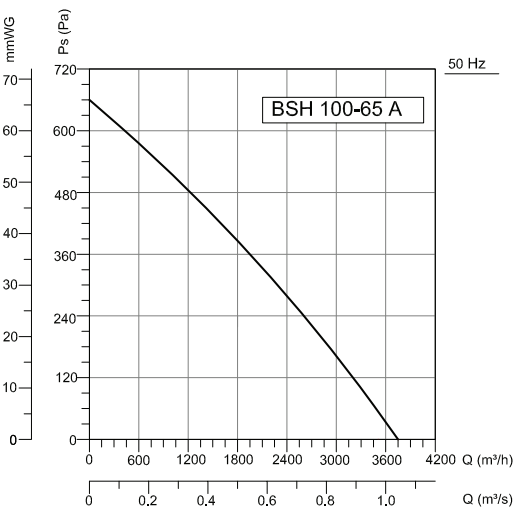
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	47	58	64	62	65	63	60	57	dB(A)
L_{WA} Outlet	75	48	58	66	68	68	70	64	67	dB(A)
L_{WA} Surrounding	62	30	37	56	54	56	55	47	44	dB(A)



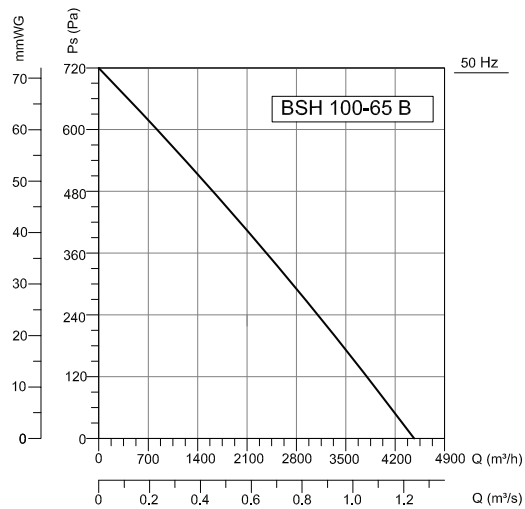
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	79	70	72	74	71	72	67	62	54	dB(A)
L_{WA} Outlet	82	59	70	75	78	75	73	68	56	dB(A)
L_{WA} Surrounding	67	45	57	64	62	57	54	49	42	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	81	72	74	76	73	74	69	64	56	dB(A)
L_{WA} Outlet	84	61	72	77	80	77	75	70	58	dB(A)
L_{WA} Surrounding	69	47	59	66	64	59	56	51	44	dB(A)

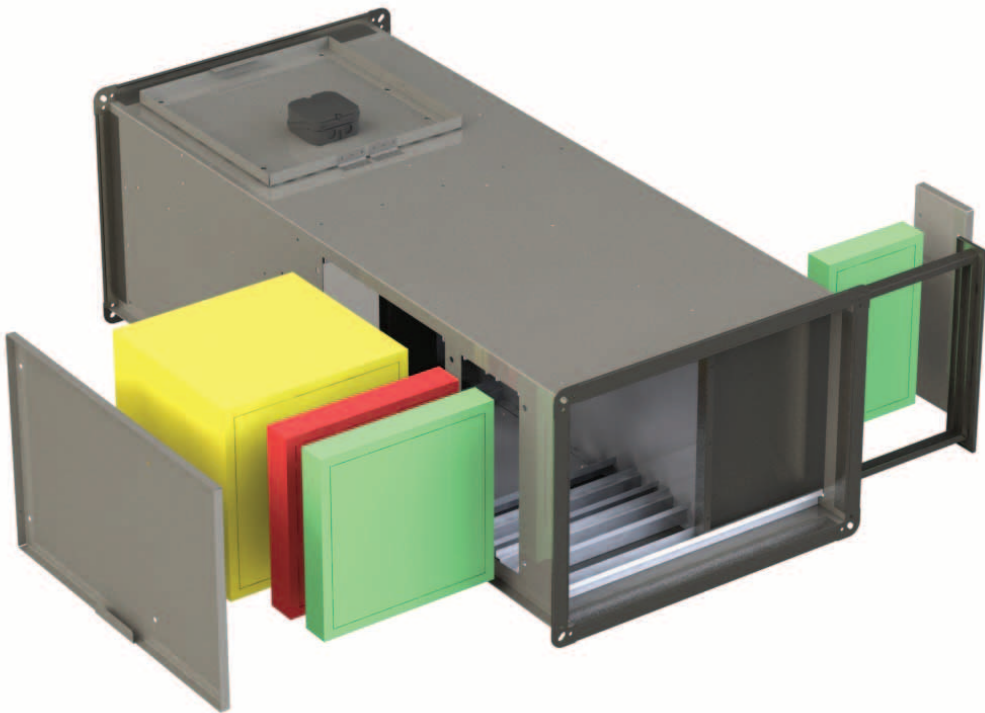
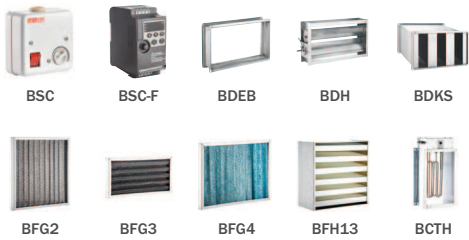


Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	81	66	76	72	74	72	71	68	59	dB(A)
L_{WA} Outlet	86	66	77	78	80	79	77	73	54	dB(A)
L_{WA} Surrounding	71	47	69	65	60	59	54	47	41	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	83	68	78	74	76	76	72	66	60	dB(A)
L _{WA} Outlet	87	72	78	80	81	81	79	71	65	dB(A)
L _{WA} Surrounding	73	50	70	67	62	61	56	48	45	dB(A)

Accessories





BSH-R

CABINET SHELTER FANS

Fan Components and Material Properties

The BSH-R double suction centrifugal box fan housing and fan are made of high quality galvanized steel that is resistant to corrosion. 25 mm stone wool was placed between the panels. Car-cass structure is made of aluminum profile. Asynchronous motor belt pulley drive system is used. The device is capable of handling air at max.40°C.

Fan Structure

Double suction, backward curved high pressure radial type fan. The fan wheel is manufactured from high strength resistant welded steel and streamlined to provide regular flow. Thanks to the suitable aerodynamic wing structure, it works silently.

Benefits

Rock wool insulation provides silence. The position damper is opened and the other damper is

switched off so that the position of the device is desired and the special damper is not used during normal use times.

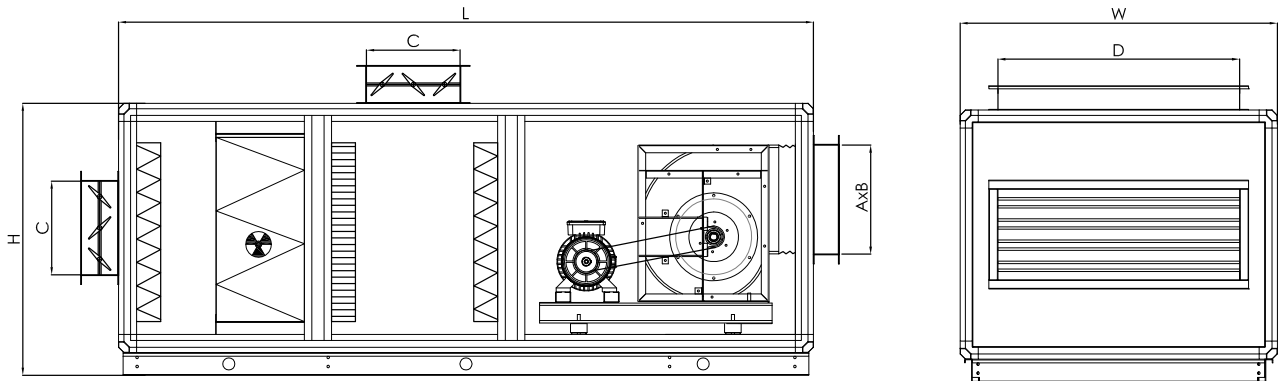
Speed Control

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 used for supplying fresh air to the shelters. They can be used in two different positions: normal time and war time. In normal time, the air is passed through the G4filter only to the interior. In the time of war, fresh air; It can be sent to the interior by passing through the activated carbon filter and nuclear hepa filter which can purify the possible chemical (nuclear) gases.

Technical Drawing and Tables



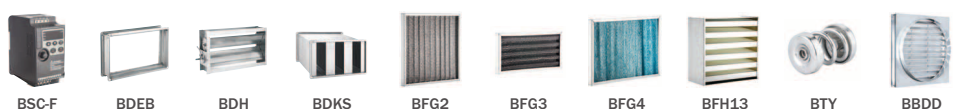
TYPE	H	W	L	A	B	C	D
BSH-R 280	825	750	1850	361	361	210	500
BSH-R 315	900	1050	2300	402	402	310	800
BSH-R 355	975	1340	2500	455	455	310	1090

Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	SPEED	AIR FLOW	EXTERNAL PRESSURE LOSS	INSULATION CLASS	PROTECTION CLASS
	V	Hz	kW	r.p.m	m³/h	Pa	Ins.cl.	IP
BSH-R 280-1,1	380	50	1,1	2552	2000	400	F	55
BSH-R 280-1,5	380	50	1,5	2613	3000	400	F	55
BSH-R 280-2,2	380	50	2,2	2809	4000	400	F	55
BSH-R 315-2,2	380	50	2,2	2451	5000	400	F	55
BSH-R 315-3	380	50	3	2591	6000	400	F	55
BSH-R 355-3	380	50	3	2251	7000	400	F	55
BSH-R 355-4	380	50	4	2354	8000	400	F	55

Sound Level Measured from 3m distance in room condition.

Accessories





BSH-C

FILTERED DUCT FANS

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 closed structure. The device is capable of handling air at max.40°C.

Fan Structure

The impeller consists of combining backward sloping and infrequently arranged fins.

Benefits

It can be operated in the desired position. Thanks to the bypass cell, it can be used in two

different positions. Bypass air damper is made by sliding system.

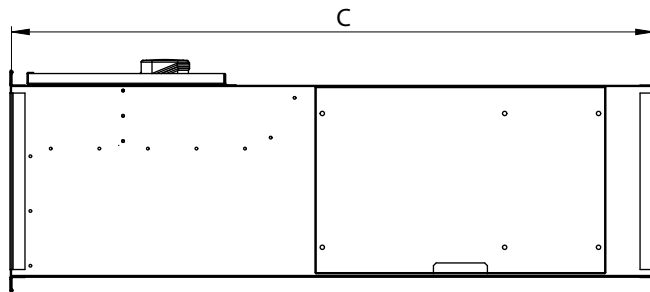
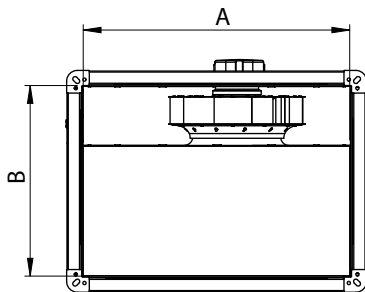
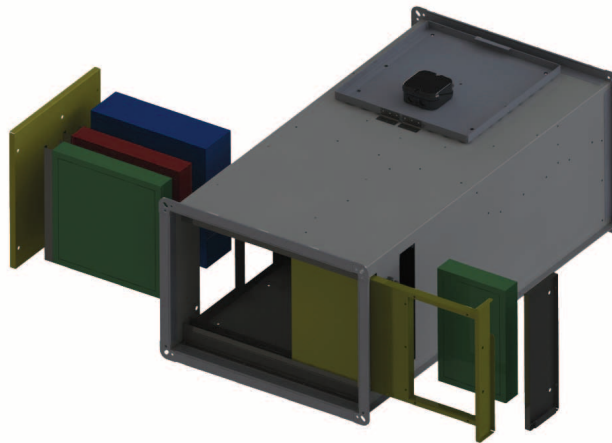
Speed Control

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

Usage Areas

It is used to supply fresh air. They can be used in two different positions; in normal time, the air is sent to the interior only through the G4 filter. When we want to clean the air, the G4 cassette filter is sent to the interior by passing through the M6 cassette filter which is more sensitive than the activated carbon cassette filter and coarse filter.

Technical Drawing and Tables

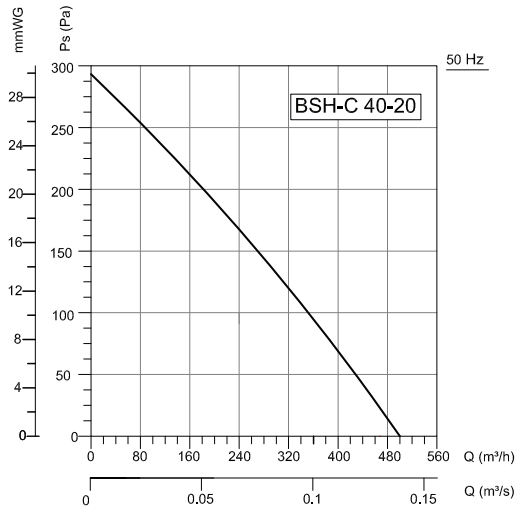


TYPE	A	B	C
BSH-C 40-20	400	200	800
BSH-C 50-25	500	250	1000
BSH-C 60-30	600	300	1100
BSH-C 70-35	700	350	1250

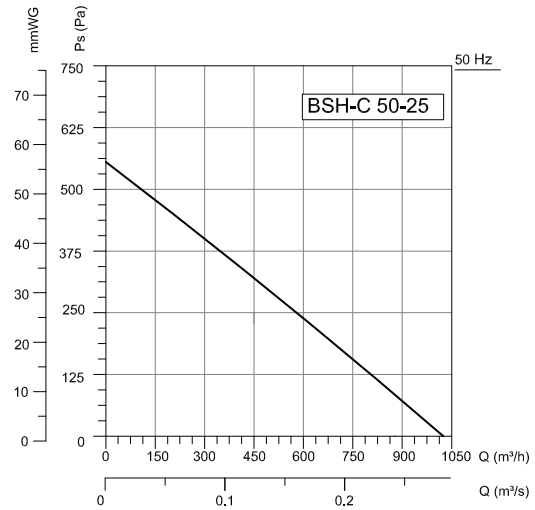
Dimensions are in (mm)

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
BSH-C 40-20	230	50	104	0,4	4	2800	500	48	B	44	24
BSH-C 50-25	230	50	130	0,8	5	2800	1000	50	B	44	35
BSH-C 60-30	230	50	180	0,64	6	2800	2000	53	B	44	45
BSH-C 70-35	230	50	210	0,96	6	1400	3000	45	B	44	63

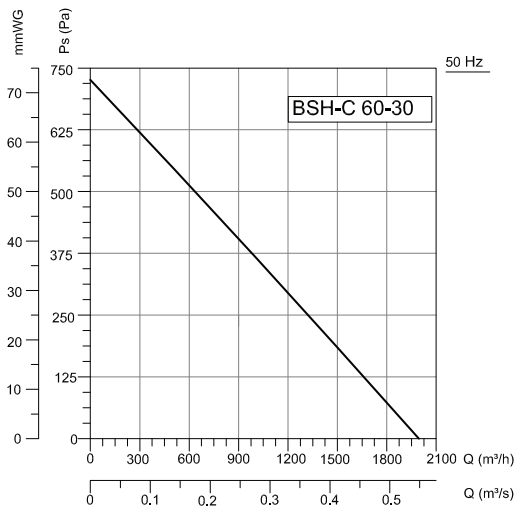
Sound Level Measured from 3m distance in room condition.



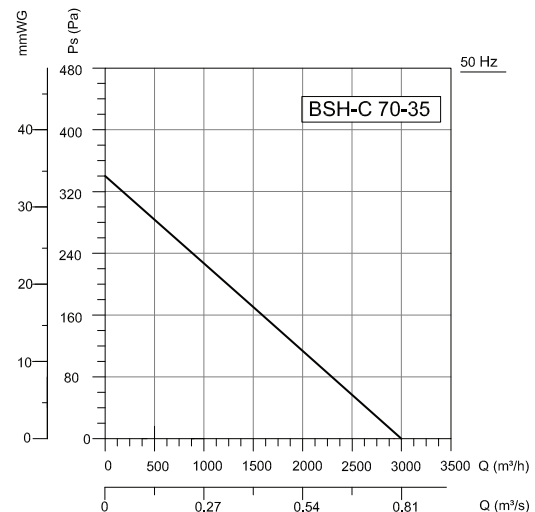
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	69	44	54	66	58	61	59	55	47	dB(A)
L _{WA} Outlet	72	44	53	67	64	63	66	61	58	dB(A)
L _{WA} Surrounding	55	20	34	53	45	44	44	38	35	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	67	47	62	60	60	57	58	53	45	dB(A)
L _{WA} Outlet	73	51	69	65	66	65	64	59	51	dB(A)
L _{WA} Surrounding	57	24	54	50	47	46	45	46	34	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	70	50	65	63	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	62	42	57	55	55	52	53	48	40	dB(A)
L _{WA} Outlet	68	46	64	60	61	60	59	54	46	dB(A)
L _{WA} Surrounding	52	19	49	45	42	41	40	41	29	dB(A)

Accessories



