

ROOF FANS CATALOGUE



BVN[®]
VENTILATION SYSTEMS & ELECTRICAL MOTORS

www.bvnair.com

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.



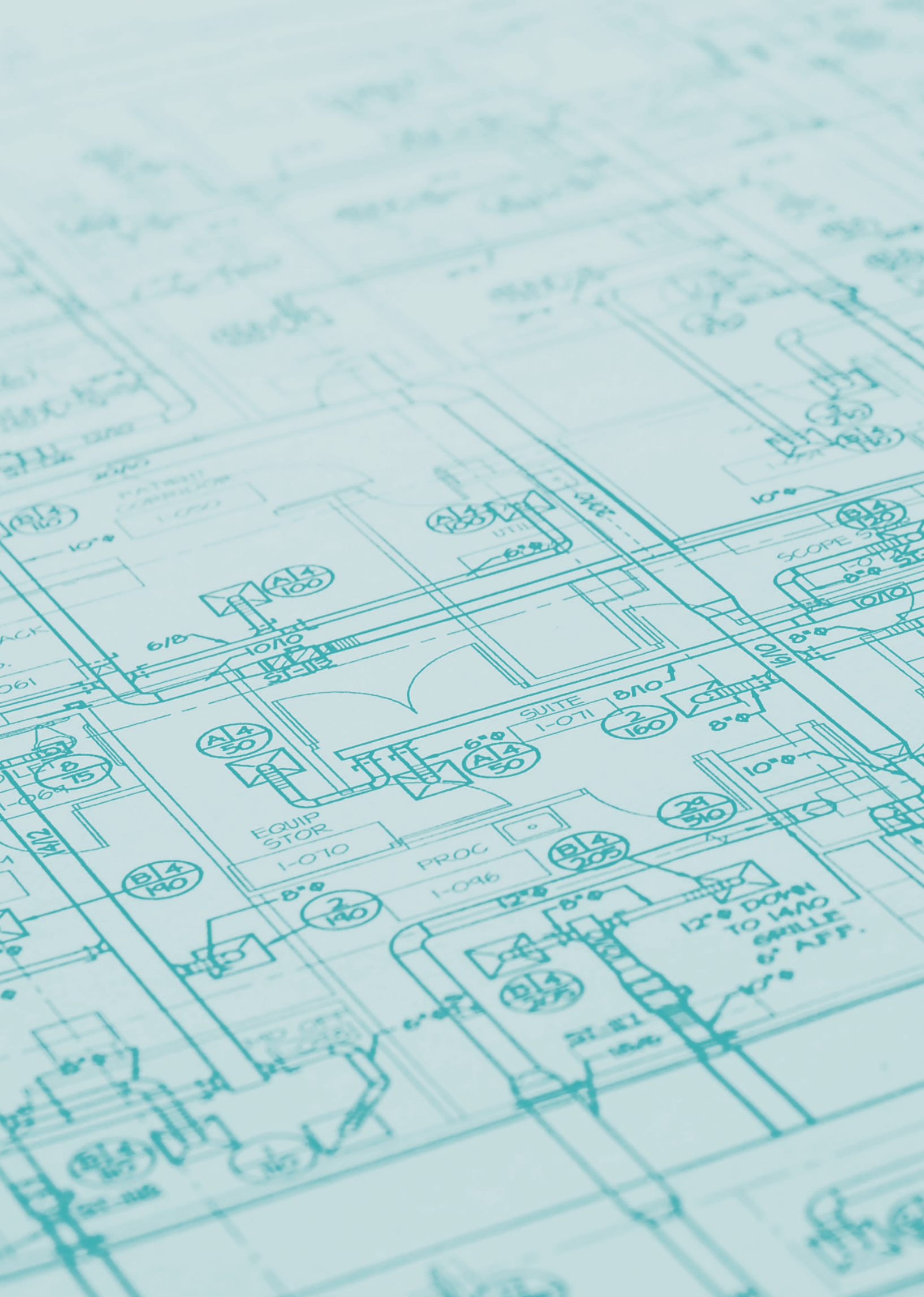
*TSE, CE Mark, UKR SEPRO, PCT GOST, ROHS Requirements are the standards of BVN Products.

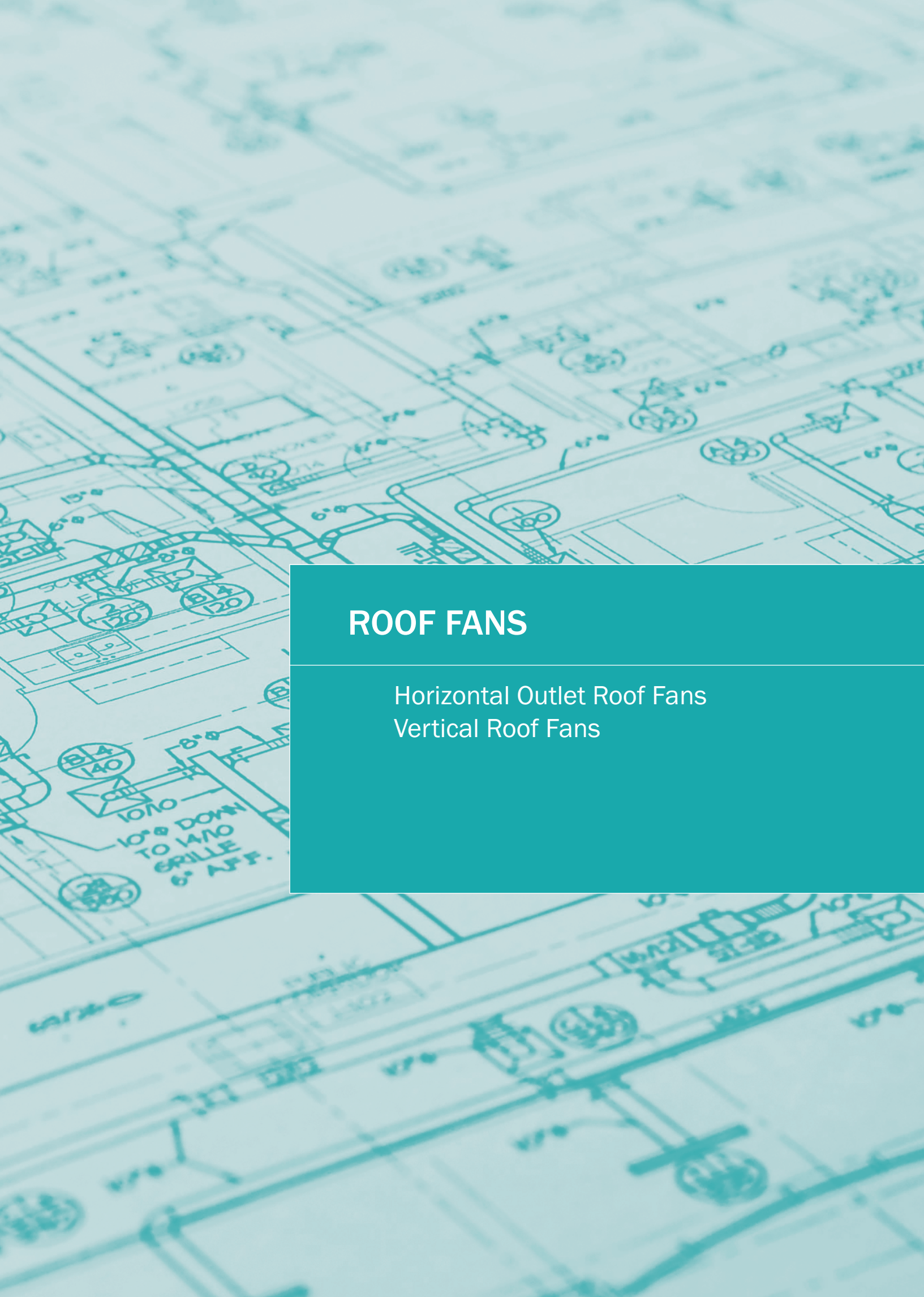
Our Smoke Exhaust Fans has the Fire Endurance certificates F300/H2 and F400/H2 taken from International Test Laboratories.

Before Packacing 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.







ROOF FANS

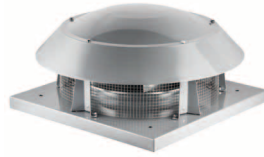
Horizontal Outlet Roof Fans
Vertical Roof Fans

ROOF FANS

Roof fans to be used for supplying or exhausting air on the roof based applications. BVN range is enough for different usage areas.

IMPELLER TYPE

CENTRIFUGAL TYPE



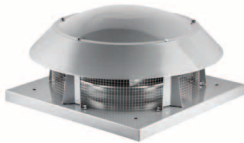
AXIAL TYPE



MOTOR TYPE

EXTERNAL ROTOR MOTOR

AC MOTOR



EC MOTOR



INTERNAL ROTOR MOTOR

STANDARD



ATEX

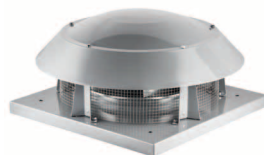


HEAT RESISTANT (F300/F400)



POSITION OF AIR DISCHARGE

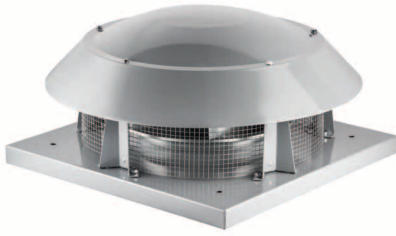
HORIZONTAL DISCHARGE



VERTICAL DISCHARGE







BRF

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

The mounting plate and fan cap of the BRF series horizontal discharge centrifugal fans are made of electrostatic powder coated sheet metal. The fan wheels of the models BRF 160-400 are made of high quality galvanized sheet steel which is resistant to corrosion. The fan wheels of the BRF 450-500-560 models are made of aluminum sheet. All models have an external rotor motor with closed structure. The device is capable of handling air at max.40°C.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

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

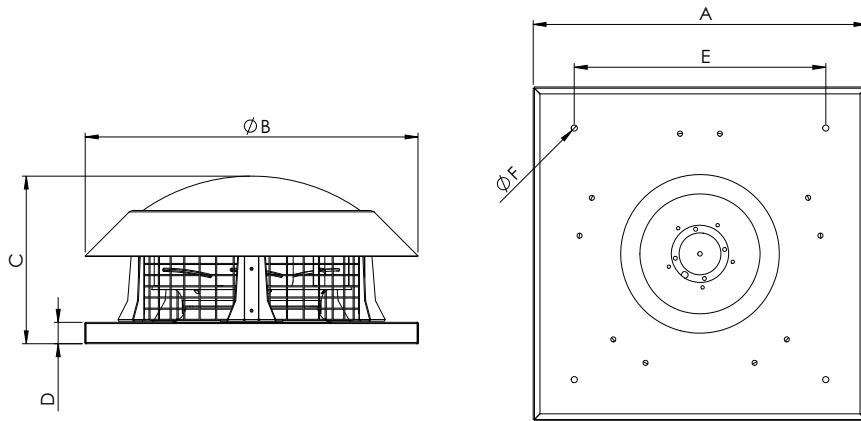
Speed Control

Optional control devices can be provided. Speed control can be done with linear voltage regulator in 1~phase products (see BSC accessory). Speed control with frequency inverter can be done in 3~phase products (see BSC-F accessory)

Usage Areas

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

Technical Drawing and Tables

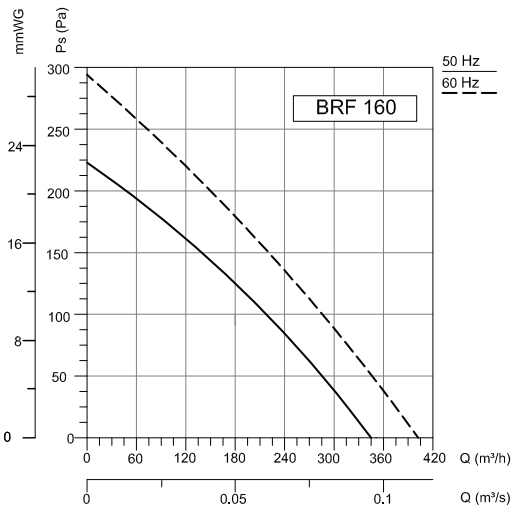


TYPE	A	B	C	D	E	F
BRF 160	252	260	140	25	210	6
BRF 180	252	260	140	25	210	6
BRF 225	336	386	212	35	274	11
BRF 250	370	386	225	35	290	11
BRF 315	454	443	293	40	333	11
BRF 355	595	595	285	40	450	11
BRF 400	595	685	355	40	450	12
BRF 450	664	685	400	40	450	12
BRF 500	798	824	385	40	600	12
BRF 560	798	824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

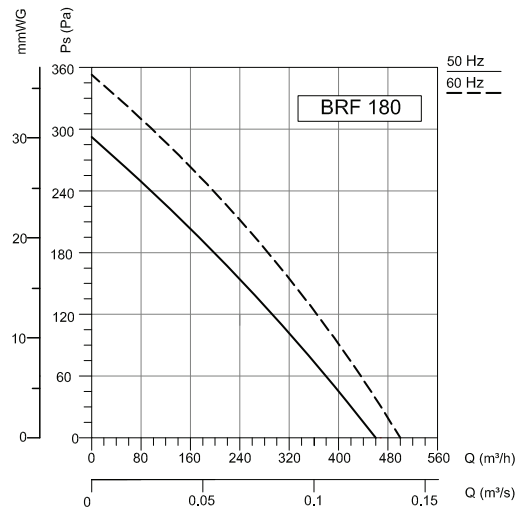
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
TYPE	V	Hz	W	(A)	(µF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BRF 160	230	50/60	60	0,3	2	2600/3000	346/400	44-36	B	44	3,5
BRF 180	230	50/60	70/90	0,35/0,43	2,5	2500/2750	460/500	49-41	B	44	3,7
BRF 225	230	50/60	80/100	0,40/0,50	3	2750/3100	902/1020	50-42	B	44	7
BRF 250	230	50/60	125/175	0,61/0,91	6	2800/3180	1212/1375	52-44	B	44	8
BRF 315	230	50/60	130/150	0,8	6	1450/1740	2000/2400	47-39	F	44	12,8
BRF 355	230	50/60	200/245	1,05	6	1400/1680	2900/3500	46-38	F	44	18
BRF 400	230	50/60	310/460	1,56/2,27	10	1380/1560	4100/4600	51-43	F	44	22
BRF 450	230	50/60	430/655	2,2/3,2	10	1370/1525	5400/6000	52-44	F	44	28
BRF 500	380 Δ/Y	50	840/580	1,95/1,12	-	1360/1100	7600/6150	54-46	F	44	45,5
BRF 560	380 Δ/Y	50	1440/840	2,8/1,6	-	1300/950	9800/7150	66-58	F	44	48

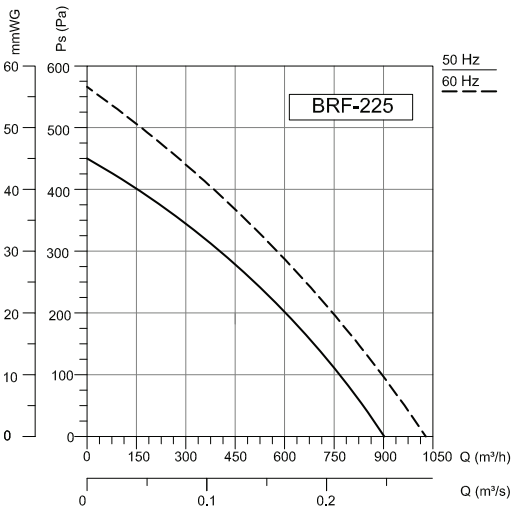
The sound level is measured at a distance of 4-10 m in open field condition.



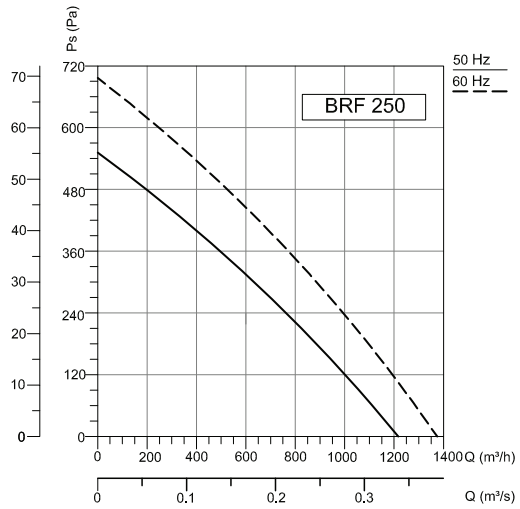
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	66	37	55	59	61	60	57	52	45	dB(A)
L_{WA} Surrounding	67	38	56	60	62	61	58	53	46	dB(A)



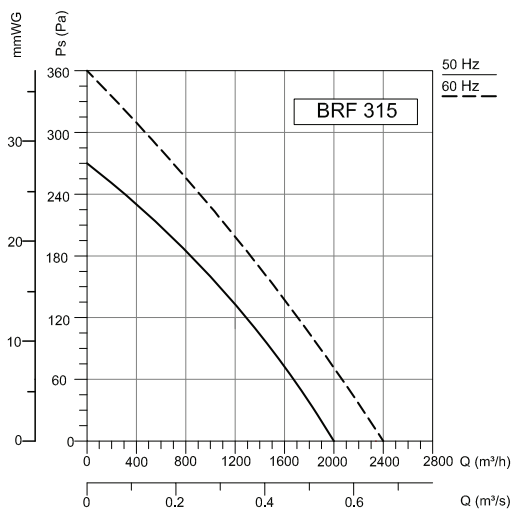
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	70	41	59	63	65	64	61	56	49	dB(A)
L_{WA} Surrounding	71	42	60	64	66	65	62	57	50	dB(A)



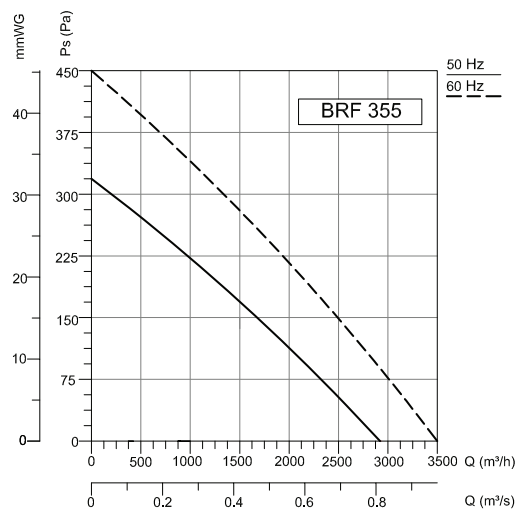
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	43	61	65	67	66	63	58	51	dB(A)
L_{WA} Surrounding	73	44	60	66	68	67	64	59	52	dB(A)



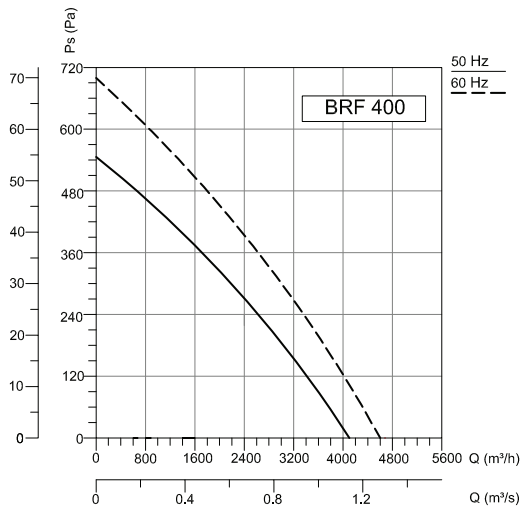
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L_{WA} Surrounding	75	46	62	68	70	69	66	61	54	dB(A)



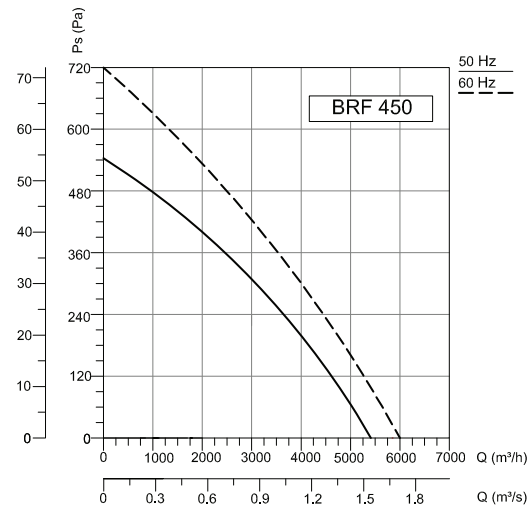
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L_{WA} Surrounding	70	57	59	63	65	64	61	56	49	dB(A)



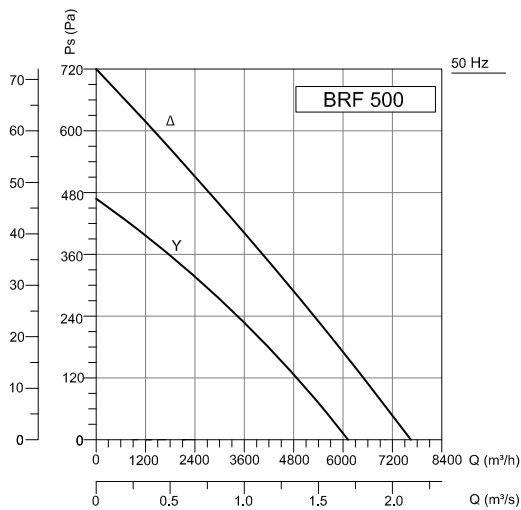
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	67	54	56	60	62	61	58	53	46	dB(A)
L_{WA} Surrounding	69	56	58	62	64	63	60	55	48	dB(A)



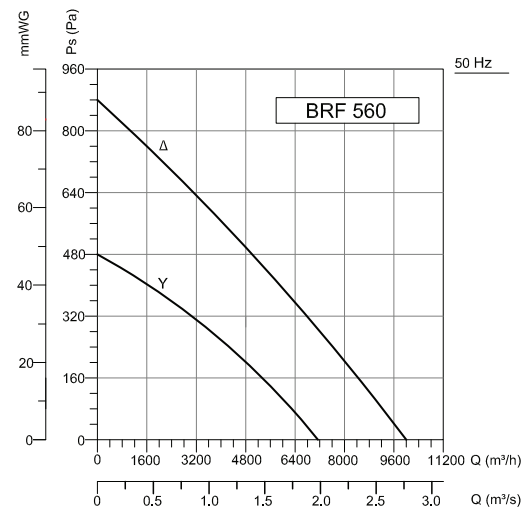
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	43	62	70	65	71	58	54	51	dB(A)
L_{WA} Surrounding	74	47	67	66	70	68	61	56	52	dB(A)



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



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



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

Accessories



BSC



BSC-F



BYF



BYKS



BYH



BRCF-M

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

Body and hat made of electrostatic powder coated sheet metal. The BRCF-M 280 fan is made of high quality galvanized steel that is resistant to corrosion. The motor is external rotor with closed structure and is out of the 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. Thanks to its aerodynamic wing structure, it works quietly.

Benefits

BRCF-M roof fans provide a great advantage in applications with vertical throw feature, especially in conditions where horizontally aspirated air cannot be disposed of. Thanks to the aerodynamic wing

structure, they work quietly. Speed can be adjusted with speed control devices. Since the motor is out of airflow, it is resistant to high temperature.

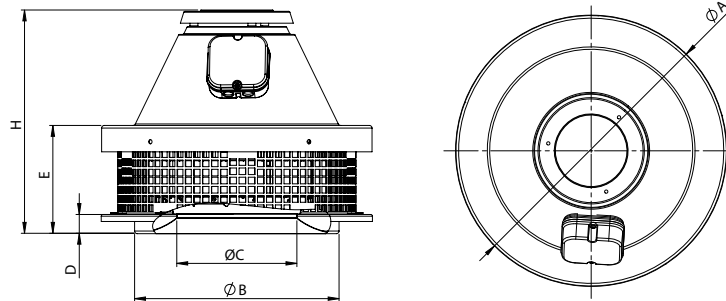
Speed Control

Optional control devices can be provided. Speed control with linear voltage regulator. (see BSC accessory)

Usage Areas

Industrial and commercial areas; it provides excellent solutions for smoke evacuation ventilation systems, especially for applications where the air must be transported at higher temperatures. It is used for ventilation of indoor spaces and kitchen areas. Due to its high temperature resistance, it is recommended to use the steam which is absorbed from the hoods by means of oil filter.

Technical Drawing and Tables

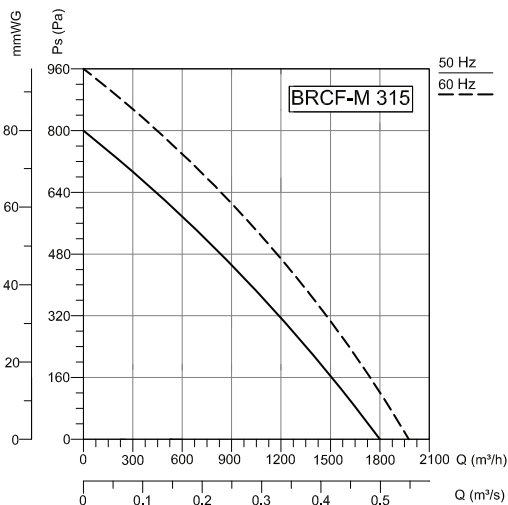


TYPE	A	B	C	D	E	H
BRCF-M 315	411	310	180	30	164	340

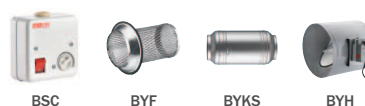
Dimensions are in (mm)

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
BRCF-M 315	230	50/60	185/280	0,82/1,23	5	2730/2980	1800/1965	56-48	F	44	11,3

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	77	48	66	70	72	71	68	63	56	dB(A)
L _{WA} Surrounding	79	52	68	70	74	73	70	65	58	dB(A)



BRCF

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

BRCF series vertical centrifugal roof type radial fans Body, mounting plate and models of BRCF 280-400 fan impellers made of galvanized sheet steel, models of BRCF 450-560 fan impellers made of aluminum sheet and models BRCF 630-800 made of electrostatic powder coated sheet steel It was. 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 aligned fins with the insertion technique, while the fan wheels of the models BRCF 630-800 are manufactured from the necessity of high strength.

Benefits

BRCF roof fans provide a great advantage in applications with vertical shot feature, especially in conditions where horizontal air is not absorbed.

Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices. Since the motor is out of airflow, it is resistant to high temperature. Due to its high temperature resistance, the hot oil vapor absorbed from the hoods ensures a long distance to the vertical.

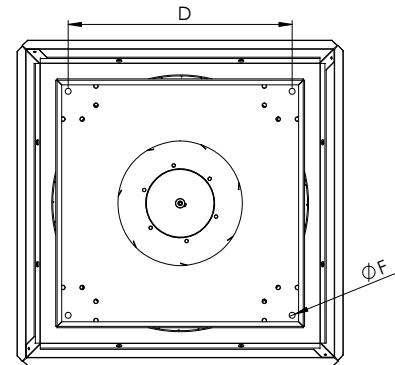
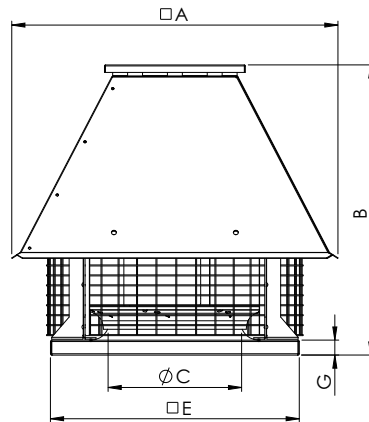
Speed Control

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 used in cases where air is needed to evacuate horizontally in order to increase the air quality of indoor spaces. BRCF roof fans operate at low volume with asynchronous norm motor. It is used in the roofs of the places where the air is to be refreshed, the chimneys on the bathroom and wc roofs of the buildings and the ventilation and hood system applications.

Technical Drawing and Tables



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

Dimensions are in (mm)

Accessories



BSC-F



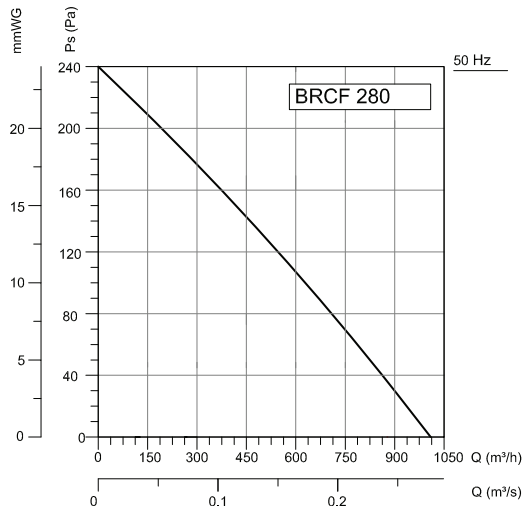
BYKS



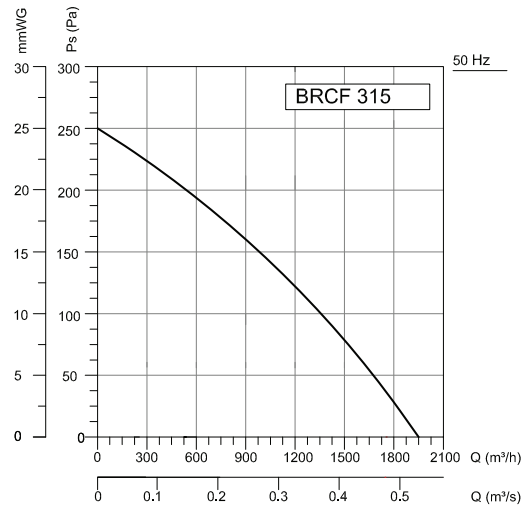
BYH

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
BRCF 280M	230	50	0,25	2,1	10	1390	1000	53-45	F	55	35
BRCF 315M	230	50	0,25	2,1	10	1380	1950	53-45	F	55	42
BRCF 355M	230	50	0,25	2,1	10	1380	2900	55-47	F	55	50
BRCF 400M	230	50	0,37	3,4	15	1390	4000	60-52	F	55	55
BRCF 450M	230	50	0,55	4,5	20	1365	5550	62-54	F	55	62
BRCF 500M	230	50	1,1	7,5	35	1410	8300	64-56	F	55	68
BRCF 560M	230	50	2,2	14,2	50	1420	10800	66-58	F	55	75
BRCF 280T	380	50	0,25	0,87	-	1380	1000	53-45	F	55	35
BRCF 315T	380	50	0,25	0,87	-	1380	1950	53-45	F	55	42
BRCF 355T	380	50	0,25	0,87	-	1380	2900	55-47	F	55	50
BRCF 400T	380	50	0,37	1,2	-	1390	4000	60-52	F	55	55
BRCF 450T	380	50	0,55	1,6	-	1365	5550	62-54	F	55	62
BRCF 500T	380	50	1,1	2,6	-	1410	8300	64-56	F	55	68
BRCF 560T	380	50	2,2	4,9	-	1420	10800	66-58	F	55	75
BRCF 630T	380	50	3	6,6	-	1000	13000	60-52	F	55	127
BRCF 710T	380	50	4	8,4	-	1000	15000	63-55	F	55	150
BRCF 800T	380	50	7,5	15,4	-	1000	17000	67-59	F	55	216

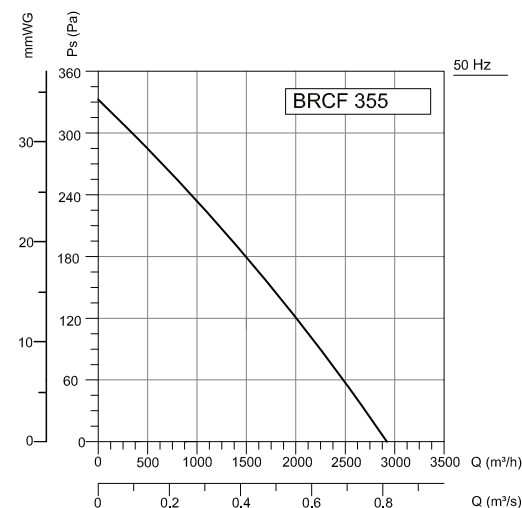
The sound level is measured at a distance of 4-10 m in open field condition.



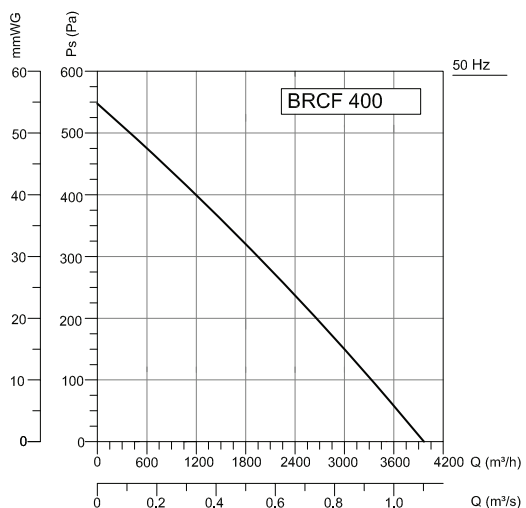
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L _{WA} Surrounding	76	47	65	69	71	70	67	62	55	dB(A)



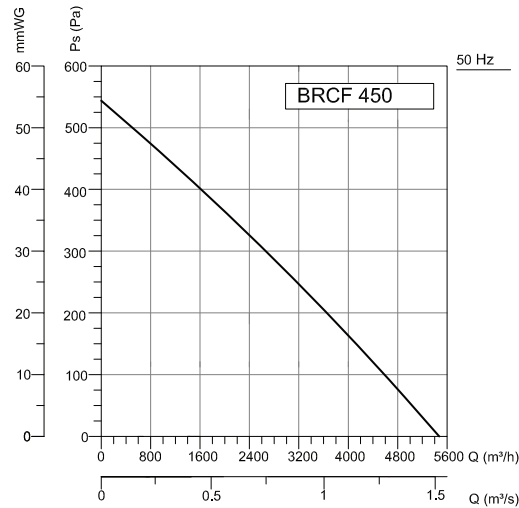
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	46	63	68	69	68	64	59	55	dB(A)
L _{WA} Surrounding	76	45	66	70	70	71	67	63	55	dB(A)



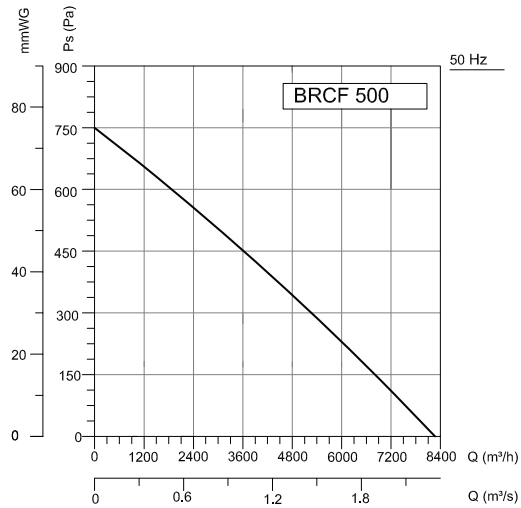
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	47	65	69	71	70	67	62	55	dB(A)
L _{WA} Surrounding	78	49	67	69	73	72	69	64	57	dB(A)



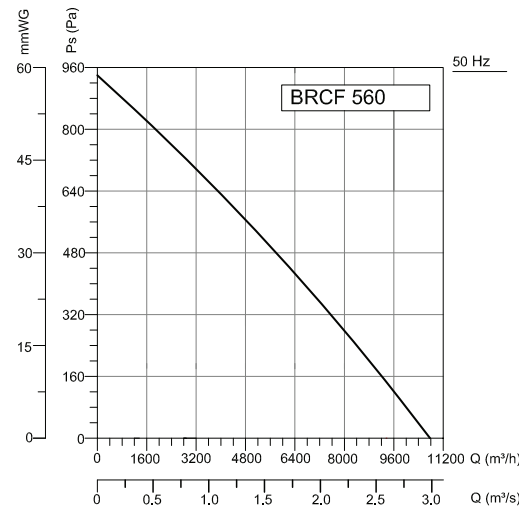
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	81	68	69	74	76	75	72	68	60	dB(A)
L _{WA} Surrounding	83	70	72	76	78	77	74	69	62	dB(A)



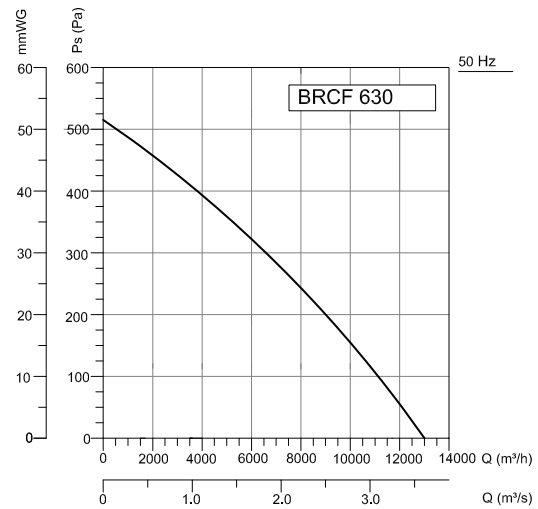
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	82	69	73	75	77	76	73	68	63	dB(A)
L_{WA} Surrounding	85	73	73	77	79	78	75	70	73	dB(A)



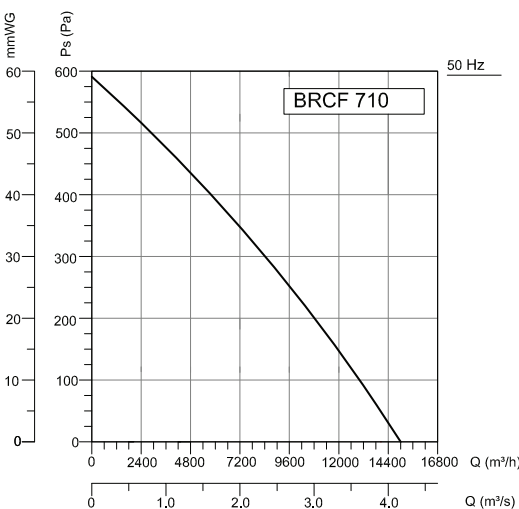
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	82	67	69	73	75	74	71	76	59	dB(A)
L_{WA} Surrounding	87	74	76	81	82	81	78	73	66	dB(A)



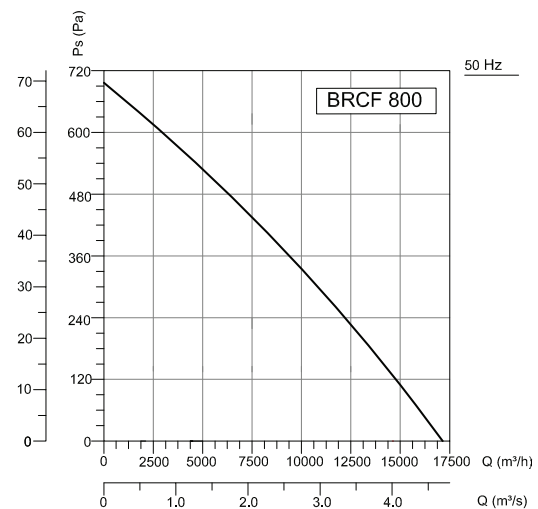
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	87	74	76	80	82	81	78	73	66	dB(A)
L_{WA} Surrounding	89	76	78	82	84	83	80	75	68	dB(A)



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



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



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



BACF

HORIZONTAL OUTLET ROOF FANS / Axial

Fan Components and Material Properties

Body, hat and protective wire cage are made of electrostatic powder coated steel. The motor and fan impeller are connected to the main body by steel carriers. The device is capable of handling air at max.40°C.

Fan Structure

The wings made of fiber glass composite materials are manufactured in airfoil structure to provide regular flow. Thanks to its aerodynamic wing structure, it works quietly.

Benefits

It works with low noise levels and is designed to be maintenance-free for long periods of time. Because of both suction and shooting capability, it is

possible to dispose of the polluted air in the environment and fresh air to the environment. Can be installed in the desired pain. Speed can be adjusted with speed control devices.

Speed Control

Optional control devices can be provided.

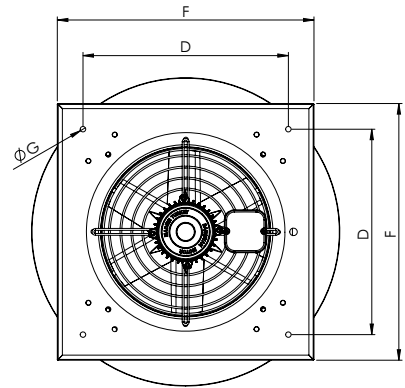
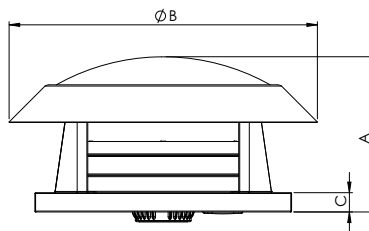
1~phase products with linear voltage regulator speed control can be done. BACF 560-630-710-800 models are excluded. (see BSC accessory)

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

Usage Areas

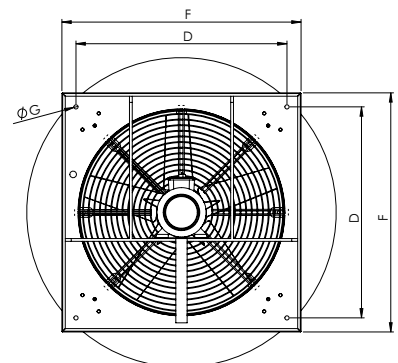
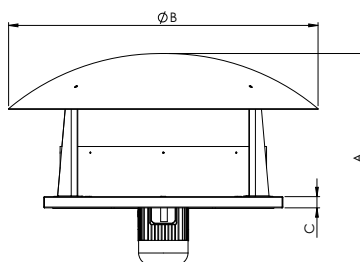
It is also used for ventilation of high volume factory, warehouse and hangar. It provides the ideal solution for large areas with its high flow rate.

Technical Drawing and Tables



TYPE	A	B	C	D	F	G
BACF 300	340	685	40	450	560	12
BACF 350	340	685	40	450	560	12
BACF 400	470	824	40	530	630	12
BACF 450	480	824	40	590	710	12
BACF 500	480	824	40	680	740	12

Dimensions are in (mm)

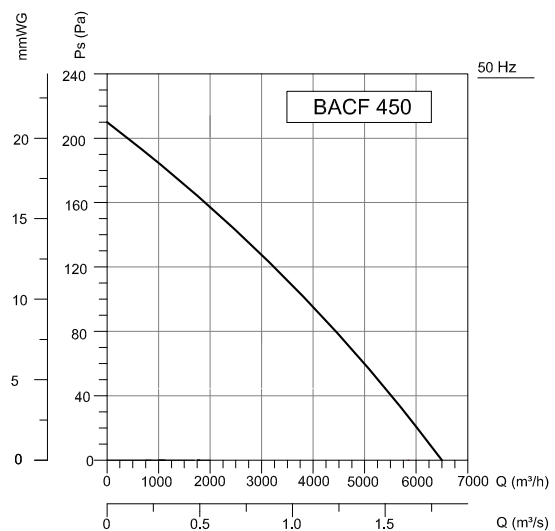
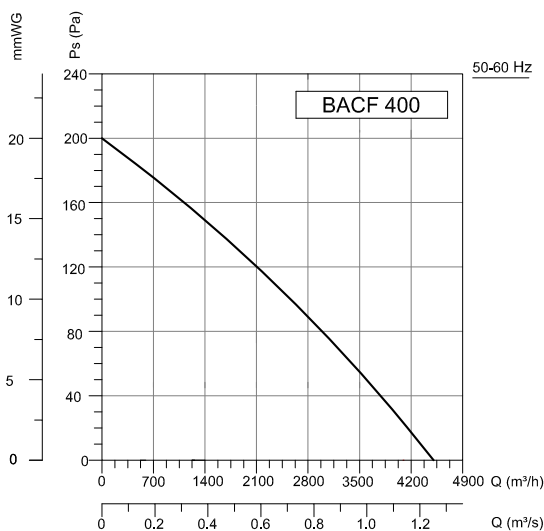
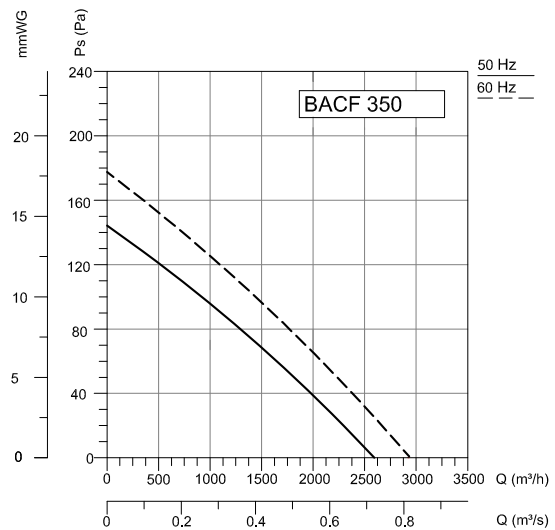
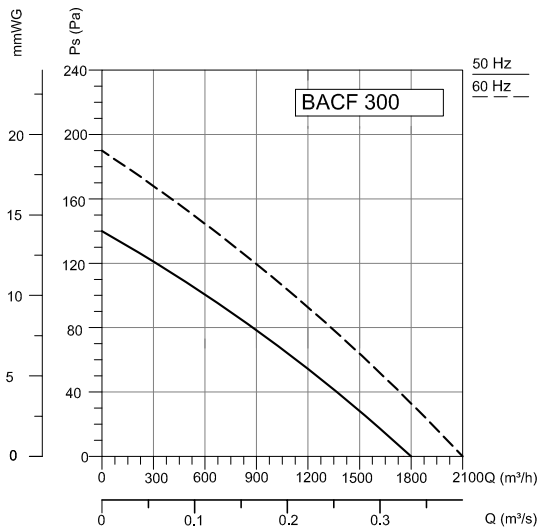


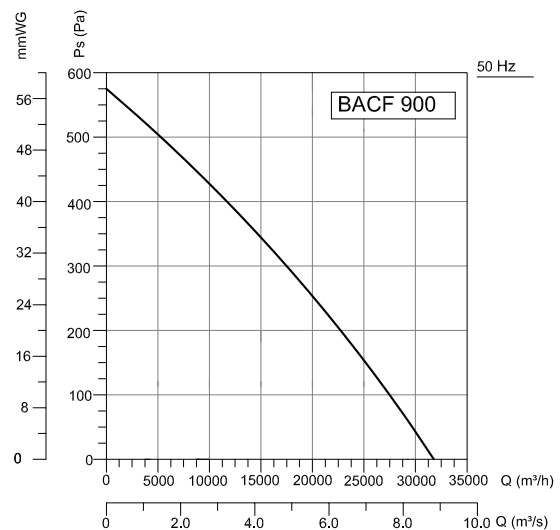
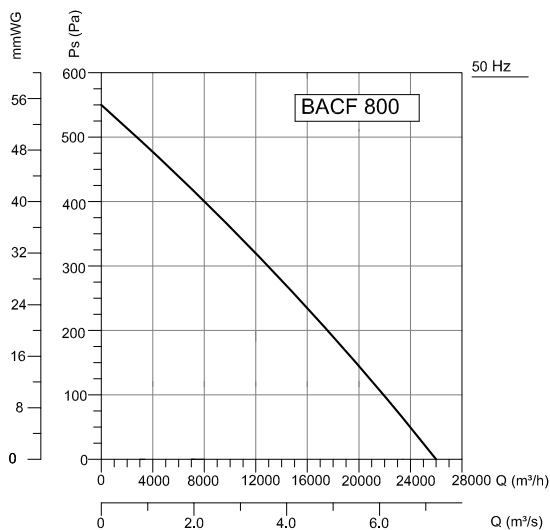
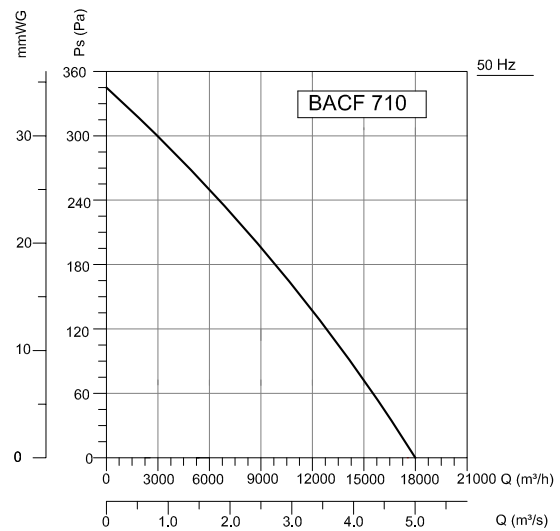
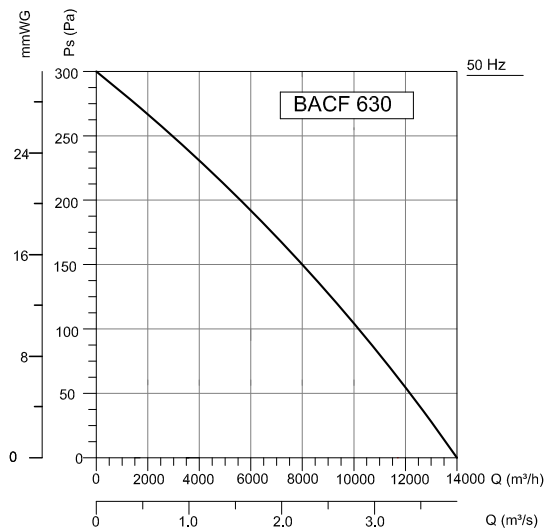
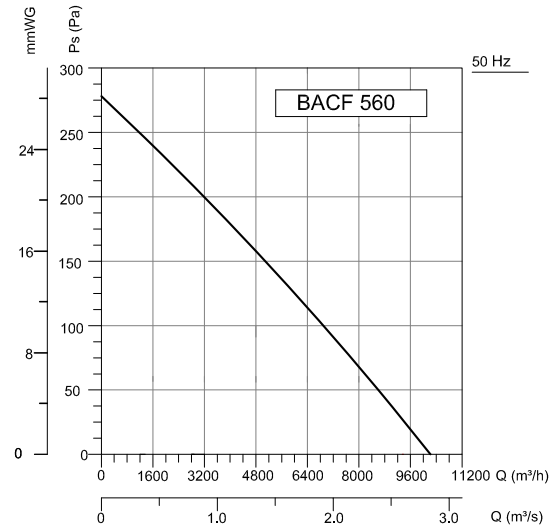
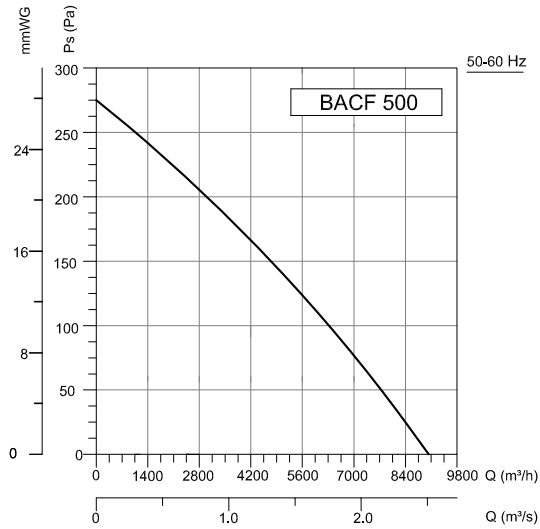
TYPE	A	B	C	D	F	G
BACF 560	710	1150	40	750	800	15
BACF 630	710	1150	40	750	850	15
BACF 710	800	1150	40	750	850	15
BACF 800	900	1450	40	900	1000	15
BACF 900	900	1450	40	900	1000	15
BACF 1000	950	1450	40	1000	1100	15

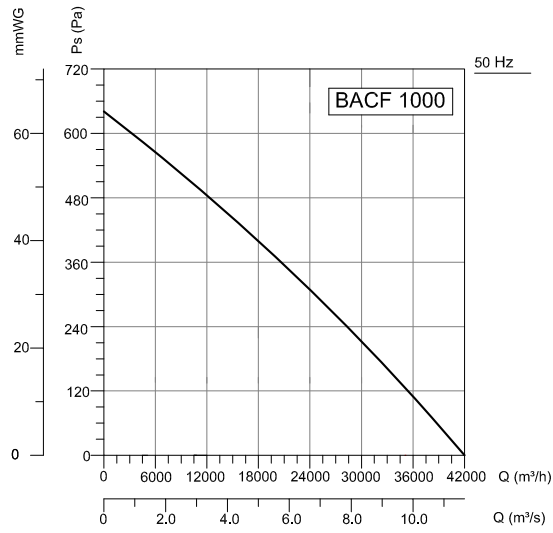
Dimensions are in (mm)

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
BACF 300M	230	50/60	90/110	0,45/0,5	3	1445/1700	1800/2100	47-39	B	44	16
BACF 350M	230	50/60	250/310	1,22/1,38	6	1400/1550	2600/2880	48-40	B	44	18
BACF 400M	230	50/60	255/310	1,24/1,39	6	1375/1500	4500	51-43	B	44	20
BACF 450M	230	50/60	325/390	1,5/1,8	8	1350/1550	6500/7460	55-47	B	44	25
BACF 500M	230	50/60	375/480	1,75/2,15	12	1350	8500	57-49	B	44	30
BACF 300T	380	50	210	1,1	-	1445	1800	47-39	B	44	16
BACF 350T	380	50	270	1,3	-	1400	2600	48-40	B	44	18
BACF 400T	380	50/60	255/320	0,8/0,76	-	1375/1600	4500	51-43	B	44	20
BACF 450T	380	50	360	1,6	-	1240	6500	55-47	B	44	25
BACF 500T	380	50/60	370/450	0,84/1,88	-	1260	8500	57-49	B	44	30
TYPE	V	Hz	kW	(A)	(μF)	r.p.m	m³/h	dB(A)	Ins.cl.	IP	kg
BACF 560M	230	50	0,75	4,6	-	1405	10400	61-53	F	55	37
BACF 630M	230	50	1,1	7,1	-	1410	14000	63-55	F	55	45
BACF 710M	230	50	1,5	9,3	-	1410	18000	68-60	F	55	53
BACF 800M	230	50	2,2	13,4	-	1425	26000	70-62	F	55	75
BACF 560T	380	50	0,75	2,1	-	1405	10400	61-53	F	55	37
BACF 630T	380	50	1,1	2,6	-	1410	14000	63-55	F	55	45
BACF 710T	380	50	1,5	3,5	-	1410	18000	68-60	F	55	53
BACF 800T	380	50	2,2	5,0	-	1425	26000	70-62	F	55	75
BACF 900T	380	50	3	6,6	-	1425	32000	74-66	F	55	80
BACF 1000T	380	50	5,5	8,4	-	1440	42000	77-69	F	55	105

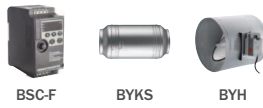
The sound level is measured at a distance of 4-10 m in open field condition.







Accessories





BRCF-EX PROOF

HORIZONTAL OUTLET ROOF FANS / Backward Curved

Fan Components and Material Properties

BRCF series vertical flush roof centrifugal fans Body, mounting plate and models of BRCF-EX 280-400 fan impellers made of galvanized sheet steel Made of powder coated sheet steel. The suction funnel is brass plated. Asynchronous ex-proof motor is used in all models. The motor is out of airflow. 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 aligned fins with the insertion technique, while the fan wheels of the models BRCF 630-800 are manufactured from the necessity of high strength. Direct drive, backward curved and sparse blade

Benefits

BRCF roof fans provide a great advantage in applications with vertical shot feature, especially in conditions where horizontal air is not absorbed.

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

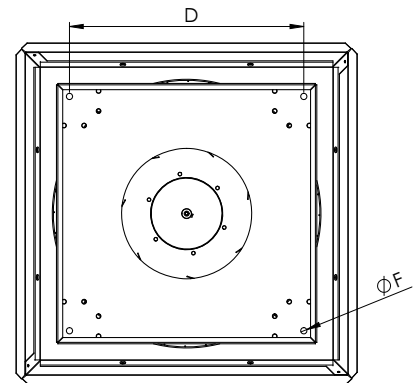
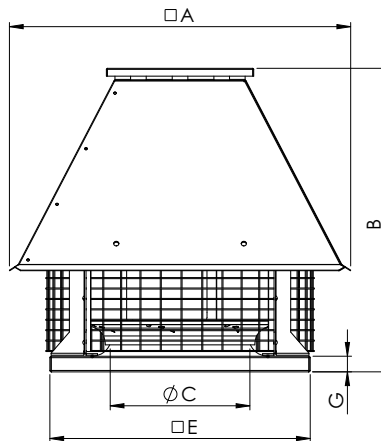
Speed Control

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

Usage Areas

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

Technical Drawing and Tables



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

Dimensions are in (mm)

Accessories



BSC-F



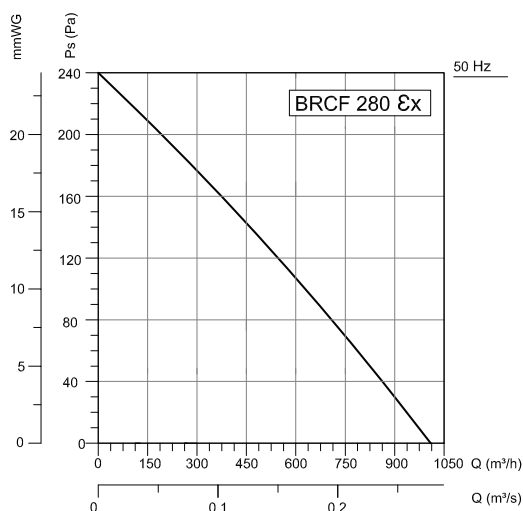
BYKS



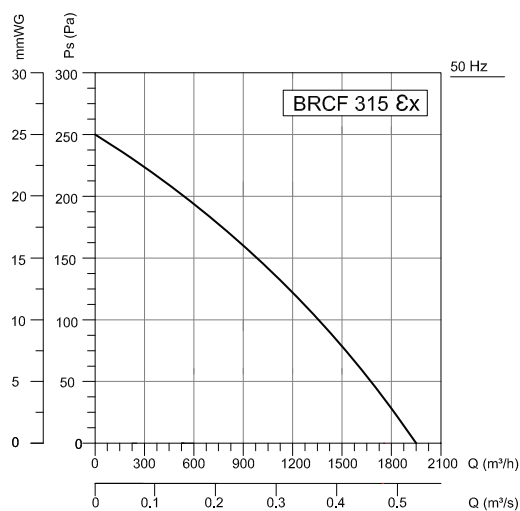
BYH

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	kW	(A)	r.p.m	m ³ /h	dB(A)	Ins.cl.	IP	kg
BRCF-EX 280T	380	50	0,25	0,87	1380	1000	53-45	F	55	35
BRCF-EX 315T	380	50	0,25	0,87	1380	1950	53-45	F	55	42
BRCF-EX 355T	380	50	0,25	0,87	1380	2900	55-47	F	55	50
BRCF-EX 400T	380	50	0,37	1,2	1390	4000	60-52	F	55	55
BRCF-EX 450T	380	50	0,55	1,6	1365	5550	62-54	F	55	62
BRCF-EX 500T	380	50	1,1	2,6	1410	8300	64-56	F	55	68
BRCF-EX 560T	380	50	2,2	4,9	1420	10800	66-58	F	55	75
BRCF-EX 630T	380	50	3	6,6	1000	13000	60-52	F	55	127
BRCF-EX 710T	380	50	4	8,4	1000	15000	63-55	F	55	150
BRCF-EX 800T	380	50	7,5	15,4	1000	17000	67-59	F	55	216

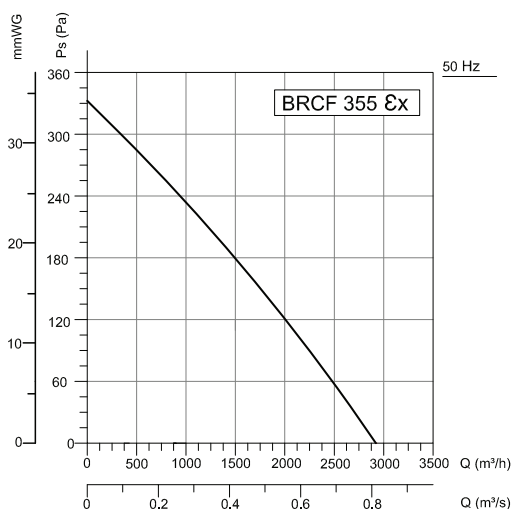
Sound Level Measured from 3m distance in room condition.



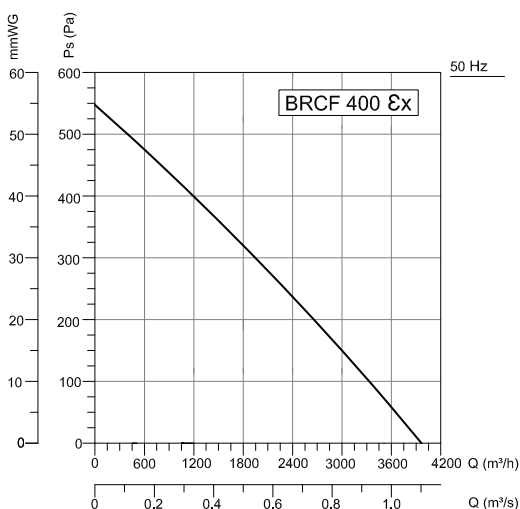
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	45	63	67	69	68	65	60	53	dB(A)
L _{WA} Surrounding	76	47	65	69	71	70	67	62	55	dB(A)



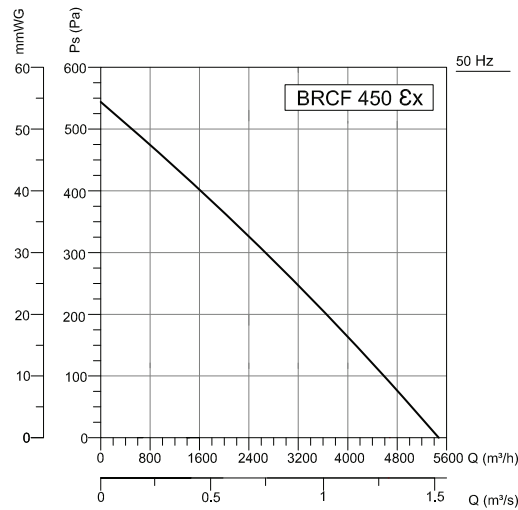
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	74	46	63	68	69	68	64	59	55	dB(A)
L _{WA} Surrounding	76	45	66	70	70	71	67	63	55	dB(A)



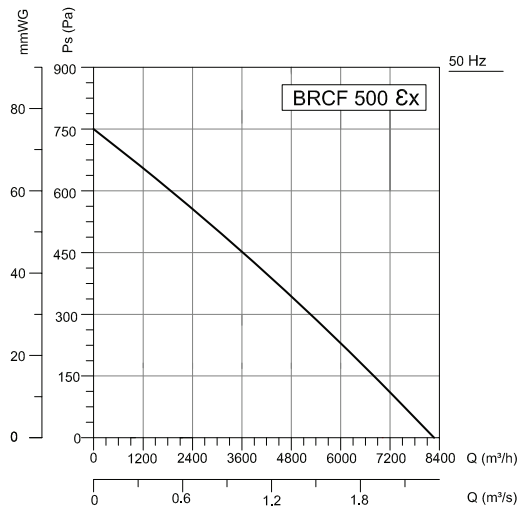
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	76	47	65	69	71	70	67	62	55	dB(A)
L _{WA} Surrounding	78	49	67	69	73	72	69	64	57	dB(A)



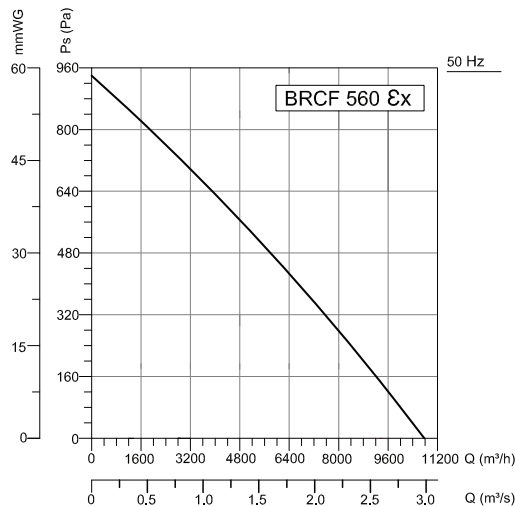
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	81	68	69	74	76	75	72	68	60	dB(A)
L _{WA} Surrounding	83	70	72	76	78	77	74	69	62	dB(A)



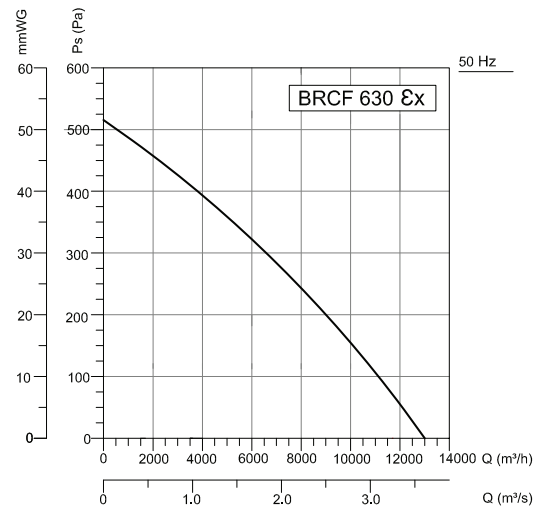
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	82	69	73	75	77	76	73	68	63	dB(A)
L_{WA} Surrounding	85	73	73	77	79	78	75	70	73	dB(A)



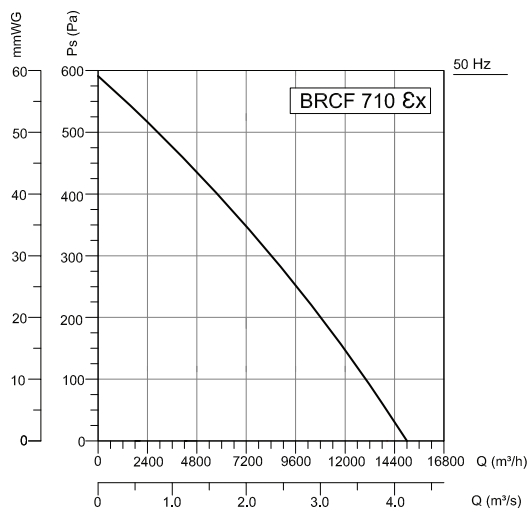
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	82	67	69	73	75	74	71	76	59	dB(A)
L_{WA} Surrounding	87	74	76	81	82	81	78	73	66	dB(A)



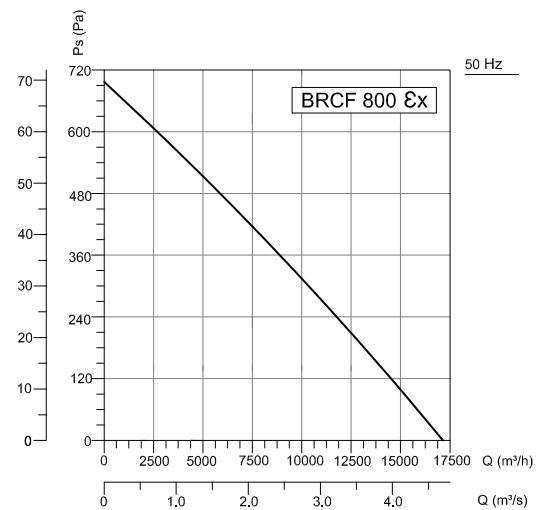
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	87	74	76	80	82	81	78	73	66	dB(A)
L_{WA} Surrounding	89	76	78	82	84	83	80	75	68	dB(A)



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



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



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



ARMO-R

HORIZONTAL OUTLET ROOF FANS / Axial

Axial roof fans are used in pressurization fan, fresh air fan and smoke exhaust fan applications. The enclosure 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 300 C • 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).

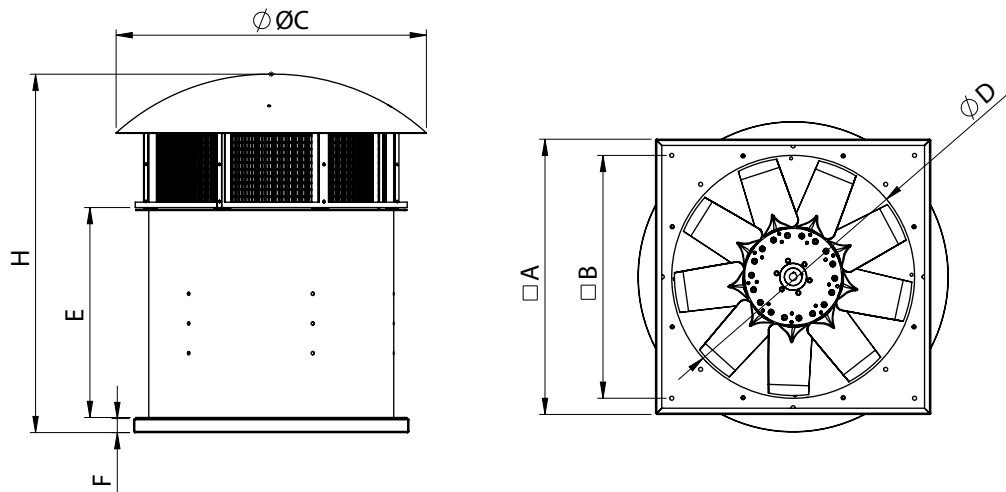
Ease of Maintenance

A maintenance cover is provided to ensure easy maintenance.

Usage Areas

Roof type Axial fans are used in pressurization fan, fresh air fan and smoke exhaust fan applications.

Technical Drawing and Tables



TYPE	A	B	C	D	E	H	F
ARMO-R 400	600	495	702	400	474	880	50
ARMO-R 450	650	545	702	450	474	880	50
ARMO-R 500	650	545	842	500	580	1030	50
ARMO-R 560	685	605	842	560	580	1030	50
ARMO-R 630	780	637	1130	630	600	1160	50
ARMO-R 710	830	710	1130	800	700	1300	50
ARMO-R 800	920	800	1130	800	700	1300	50
ARMO-R 900	1020	900	1130	900	775	1375	50
ARMO-R 1000	1130	1030	1430	1000	850	1450	50
ARMO-R 1250	1430	1350	1430	1250	950	1550	50

Dimensions are in (mm)



2 POLE						
	SPEED	DIAMETER	POWER	CURRENT	AIR FLOW	WING ANGLE
TYPE	r.p.m	mm	kW	230V - 400V	m ³ /h	
ARMO-R / 400-6 / 0,75 - 2A	2900	400	0,75	1,6	5250	16°
ARMO-R / 400-6 / 1,1 - 2A	2900	400	1,1	2,3	6904	22°
ARMO-R / 400-6 / 1,5 - 2A	2900	400	1,5	3,4	8978	30°
ARMO-R / 400-6 / 2,2 - 2A	2900	400	2,2	4,48	9975	34°
ARMO-R / 450-6 / 1,1 - 2A	2900	450	1,1	2,3	6248	10°
ARMO-R / 450-6 / 1,5 - 2A	2900	450	1,5	3,4	8610	16°
ARMO-R / 450-6 / 2,2 - 2A	2900	450	2,2	4,48	11970	24°
ARMO-R / 450-6 / 3 - 2A	2900	450	3	6	13545	28°
ARMO-R / 500-6 / 2,2 - 2A	2900	500	2,2	4,48	11000	14°
ARMO-R / 500-6 / 3 - 2A	2900	500	3	6	14595	20°
ARMO-R / 500-6 / 4 - 2A	2900	500	4	7,4	17325	26°
ARMO-R / 500-6 / 5,5 - 2A	2900	500	5,5	11	18375	28°
ARMO-R / 560-6 / 4 - 2A	2900	560	4	7,4	17850	14°
ARMO-R / 560-6 / 5,5 - 2A	2900	560	5,5	11	22313	20°
ARMO-R / 560-6 / 7,5 - 2A	2800	560	7,5	13,6	25725	24°
ARMO-R / 630-6 / 5,5 - 2A	2900	630	5,5	11	20475	10°
ARMO-R / 630-6 / 7,5 - 2A	2800	630	7,5	13,6	27300	16°

4 POLE TYPE	SPEED	DIAMETER	POWER	CURRENT	AIR FLOW	WING ANGLE
	r.p.m	mm	kW	230V - 400V	m ³ /h	
ARMO-R / 500-6 / 0,55 - 4A	1415	500	0,55	1,6	8715	26
ARMO-R / 500-6 / 0,75 - 4A	1350	500	0,75	2,1	10290	32
ARMO-R / 500-6 / 1,1 - 4A	1400	500	1,1	2,6	12600	38
ARMO-R / 560-6 / 0,55 - 4A	1415	560	0,55	1,6	9870	16
ARMO-R / 560-6 / 0,75 - 4A	1350	560	0,75	2,1	12075	22
ARMO-R / 560-6 / 1,1 - 4A	1400	560	1,1	2,6	13860	26
ARMO-R / 560-6 / 1,5 - 4A	1405	560	1,5	3,5	15750	32
ARMO-R / 560-6 / 2,2 - 4A	1410	560	2,2	5	17850	38
ARMO-R / 630-6 / 0,75 - 4A	1350	630	0,75	2,1	10605	10
ARMO-R / 630-6 / 1,1 - 4A	1400	630	1,1	2,6	16275	20
ARMO-R / 630-6 / 1,5 - 4A	1405	630	1,5	3,5	18375	24
ARMO-R / 630-6 / 2,2 - 4A	1410	630	2,2	5	21525	30
ARMO-R / 630-6 / 3 - 4A	1410	630	3	6,6	24150	36
ARMO-R / 630-6 / 4 - 4A	1500	630	4	8,2	25200	38
ARMO-R / 710-3 / 0,75 - 4A	1350	710	0,75	2,1	14175	10
ARMO-R / 710-3 / 1,1 - 4A	1400	710	1,1	2,6	18375	16
ARMO-R / 710-3 / 1,5 - 4A	1405	710	1,5	3,5	21000	20
ARMO-R / 710-3 / 2,2 - 4A	1410	710	2,2	5	24413	26
ARMO-R / 710-3 / 3 - 4A	1410	710	3	6,6	27825	32
ARMO-R / 710-6 / 1,1 - 4A	1400	710	1,1	2,6	16275	12
ARMO-R / 710-6 / 1,5 - 4A	1405	710	1,5	3,5	20475	18
ARMO-R / 710-6 / 2,2 - 4A	1410	710	2,2	5	23625	22
ARMO-R / 710-6 / 3 - 4A	1410	710	3	6,6	28350	28
ARMO-R / 710-6 / 4 - 4A	1415	710	4	8,2	31500	32
ARMO-R / 800-6 / 2,2 - 4A	1410	800	2,2	5	24150	14
ARMO-R / 800-6 / 3 - 4A	1410	800	3	6,6	30450	20
ARMO-R / 800-6 / 4 - 4A	1415	800	4	8,2	32550	22
ARMO-R / 800-6 / 5,5 - 4A	1430	800	5,5	11,2	38850	28
ARMO-R / 800-6 / 7,5 - 4A	1440	800	7,5	15,4	42525	32
ARMO-R / 800-9 / 2,2 - 4A	1410	800	2,2	5	16275	10
ARMO-R / 800-9 / 3 - 4A	1410	800	3	6,6	21525	14
ARMO-R / 800-9 / 4 - 4A	1415	800	4	8,2	29400	20
ARMO-R / 800-9 / 5,5 - 4A	1430	800	5,5	11,2	36488	26
ARMO-R / 800-9 / 7,5 - 4A	1440	800	7,5	15,4	40950	30
ARMO-R / 800-9 / 11 - 4A	1450	800	11	21	43050	32
ARMO-R / 900-6 / 4 - 4A	1415	900	4	8,2	31500	12
ARMO-R / 900-6 / 5,5 - 4A	1430	900	5,5	11,2	38850	16
ARMO-R / 900-6 / 7,5 - 4A	1440	900	7,5	15,4	47775	22
ARMO-R / 900-6 / 11 - 4A	1450	900	11	21	56700	28
ARMO-R / 900-6 / 15 - 4A	1450	900	15	29,3	60900	32
ARMO-R / 900-9 / 4 - 4A	1415	900	4	8,2	26775	10
ARMO-R / 900-9 / 5,5 - 4A	1430	900	5,5	11,2	34125	14
ARMO-R / 900-9 / 7,5 - 4A	1440	900	7,5	15,4	41213	18
ARMO-R / 900-9 / 11 - 4A	1450	900	11	21	54600	26
ARMO-R / 900-9 / 15 - 4A	1450	900	15	29,3	63525	32
ARMO-R / 1000-6 / 5,5 - 4A	1430	1000	5,5	11,2	38850	12
ARMO-R / 1000-6 / 7,5 - 4A	1440	1000	7,5	15,4	47775	18
ARMO-R / 1000-6 / 11 - 4A	1450	1000	11	21	56700	22
ARMO-R / 1000-6 / 15 - 4A	1450	1000	15	29,3	60900	28
ARMO-R / 1000-6 / 18,5 - 4A	1455	1000	18,5	34,5	56700	32
ARMO-R / 1000-9 / 7,5 - 4A	1440	1000	7,5	15,4	43050	12
ARMO-R / 1000-9 / 11 - 4A	1450	1000	11	21	55650	18
ARMO-R / 1000-9 / 15 - 4A	1450	1000	15	29,3	69300	24
ARMO-R / 1000-9 / 18,5 - 4A	1455	1000	18,5	34,5	77700	28
ARMO-R / 1000-9 / 22 - 4A	1460	1000	22	42,5	81900	30
ARMO-R / 1000-9 / 30 - 4A	1460	1000	30	55	86100	32
ARMO-R / 1250-6 / 15 - 4A	1450	1250	15	29,3	90300	12
ARMO-R / 1250-6 / 18,5 - 4A	1455	1250	18,5	34,5	103950	16
ARMO-R / 1250-6 / 22 - 4A	1460	1250	22	42,5	109725	18
ARMO-R / 1250-6 / 30 - 4A	1460	1250	30	55	122850	22
ARMO-R / 1250-6 / 37 - 4A	1470	1250	37	67	136500	26
ARMO-R / 1250-6 / 45 - 4A	1475	1250	45	80	155400	32
ARMO-R / 1250-9 / 18,5 - 4A	1455	1250	18,5	34,5	89250	12
ARMO-R / 1250-9 / 22 - 4A	1460	1250	22	42,5	97650	14
ARMO-R / 1250-9 / 30 - 4A	1460	1250	30	55	114975	18
ARMO-R / 1250-9 / 37 - 4A	1470	1250	37	67	131250	22
ARMO-R / 1250-9 / 45 - 4A	1475	1250	45	80	138600	24

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

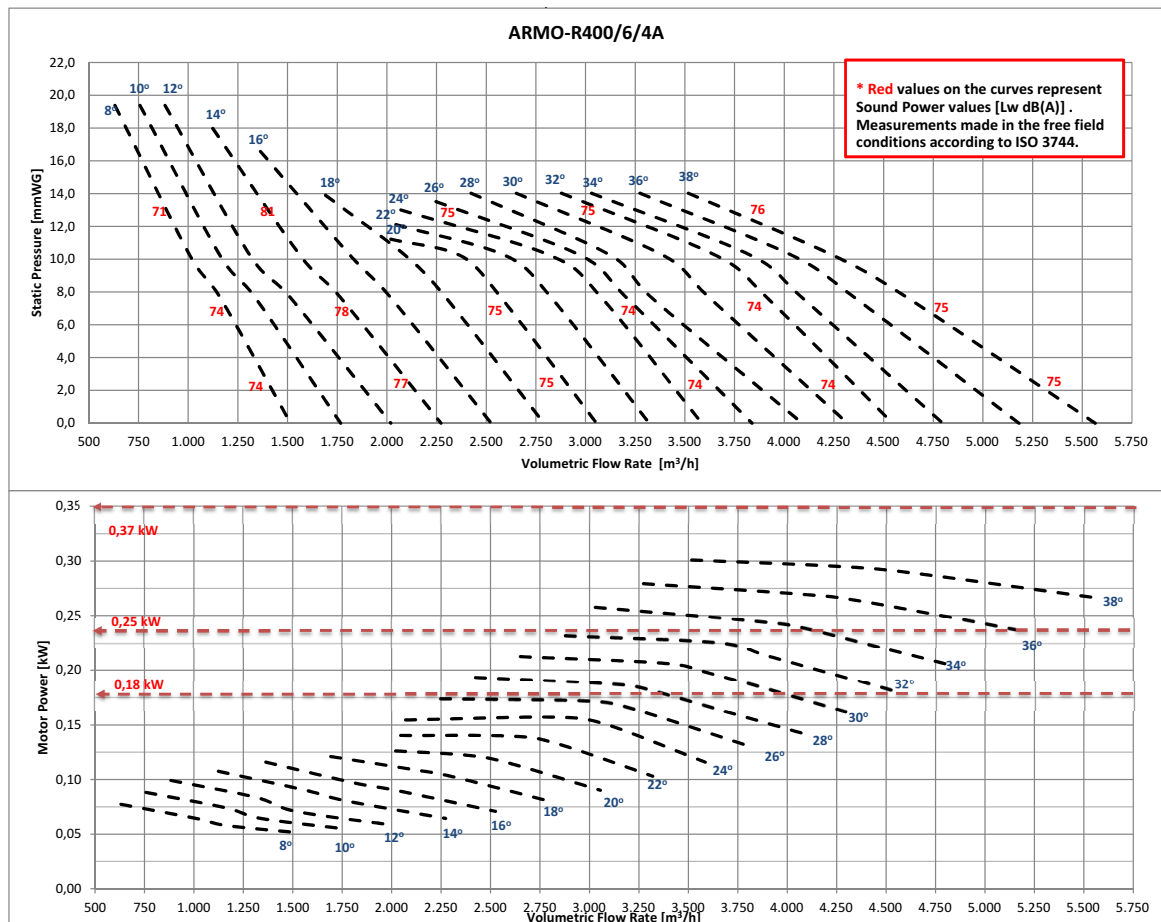
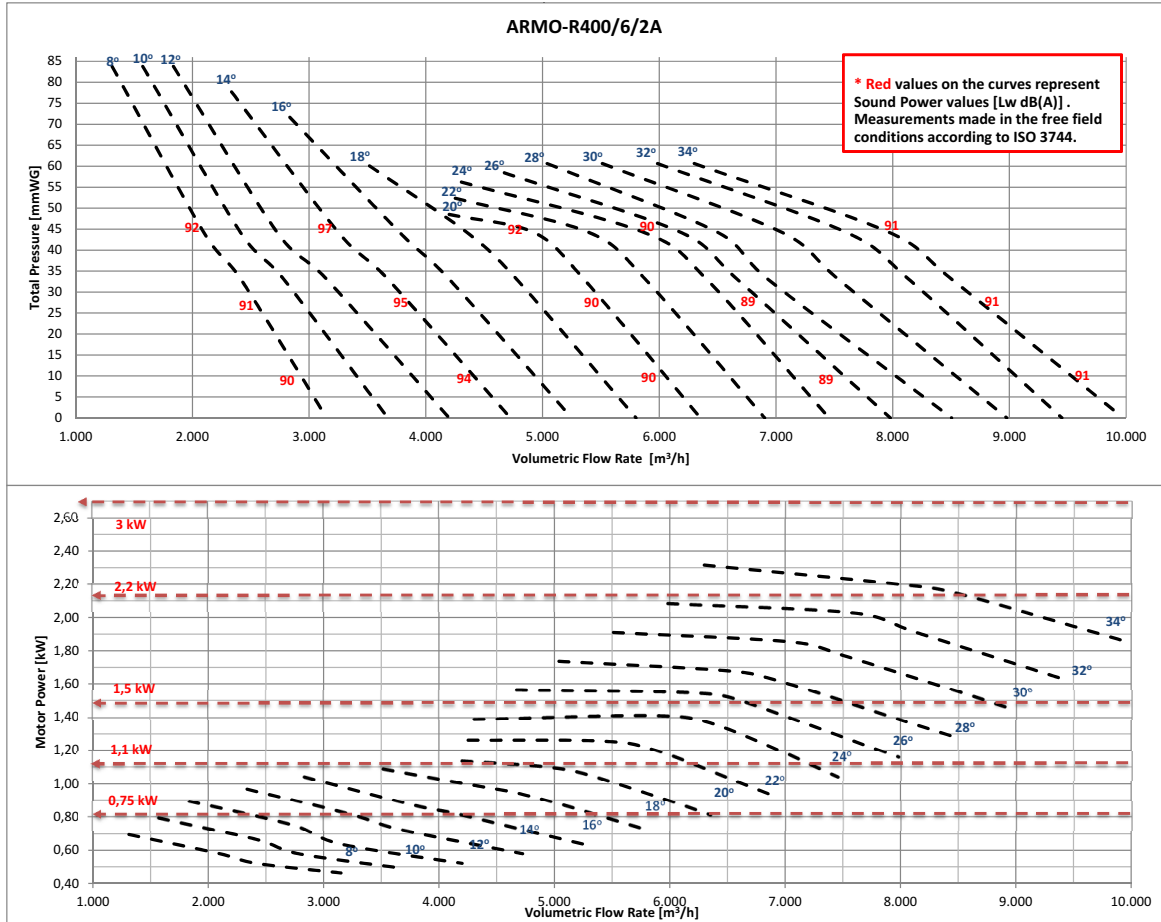
Accessories

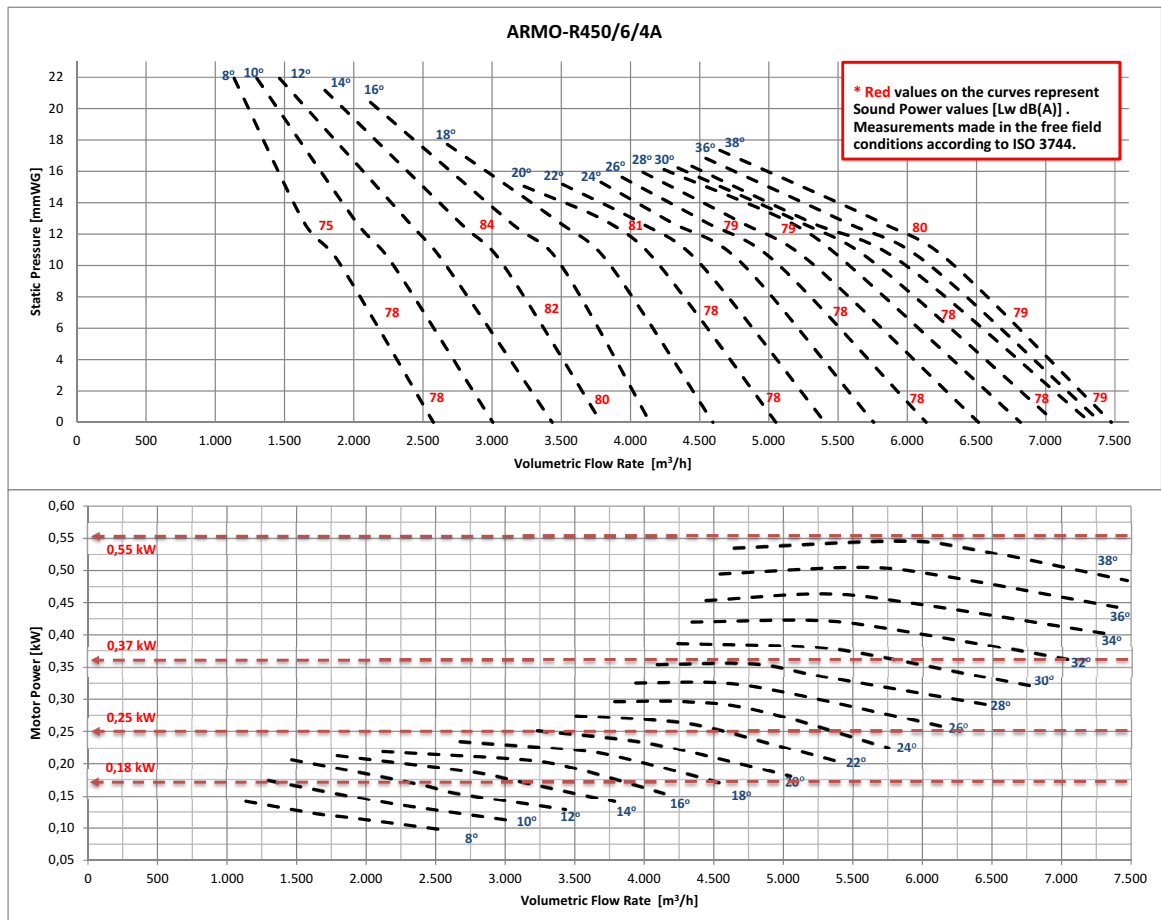
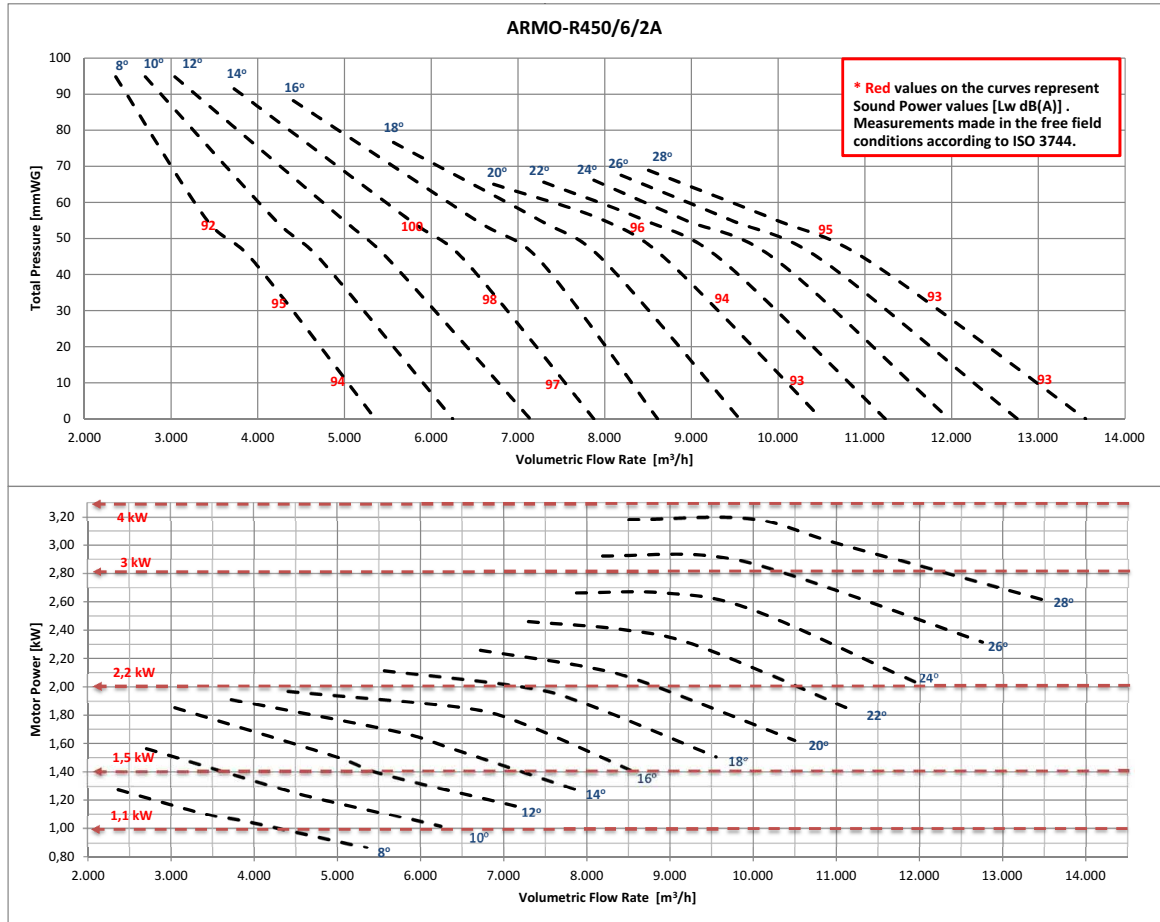


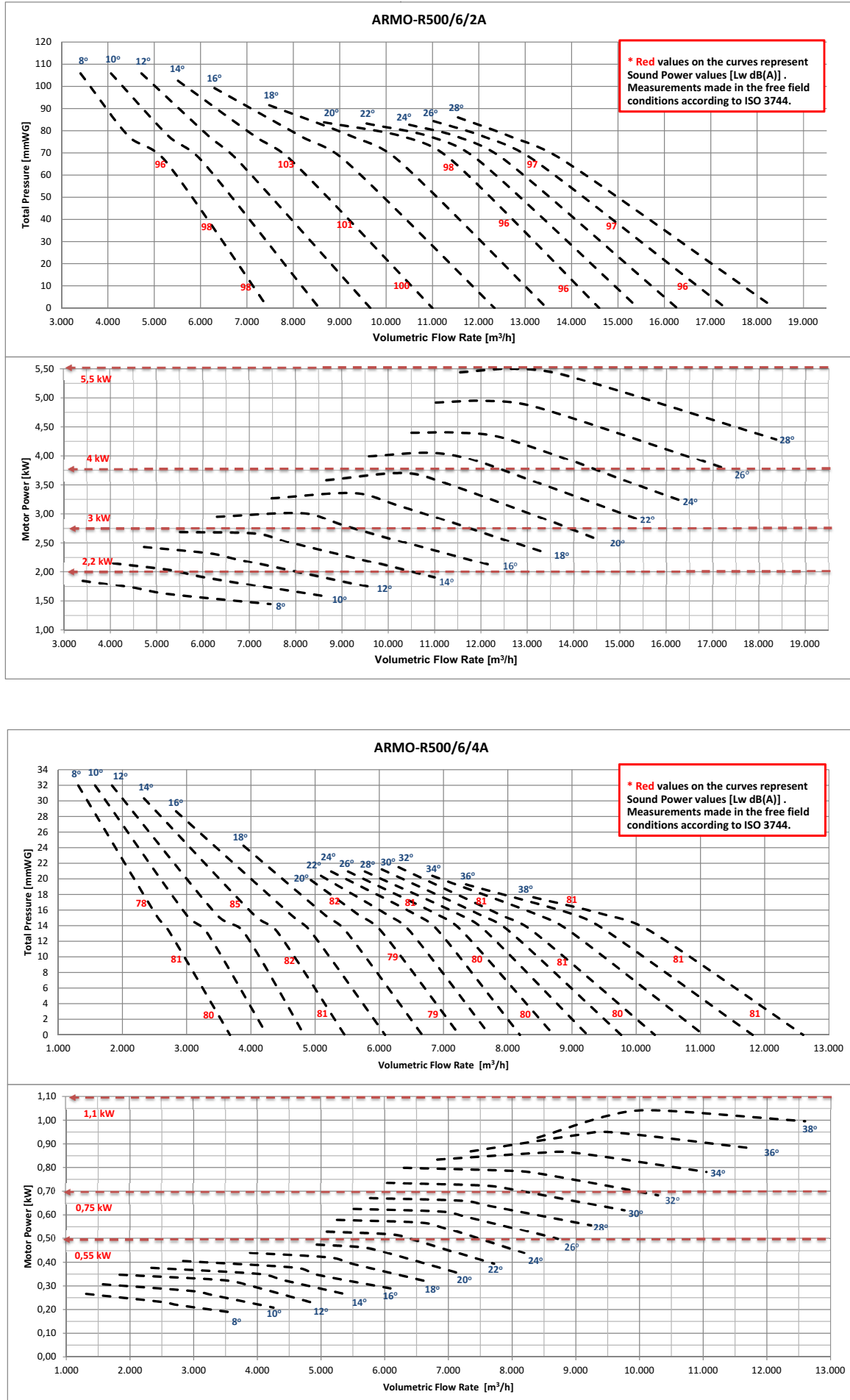
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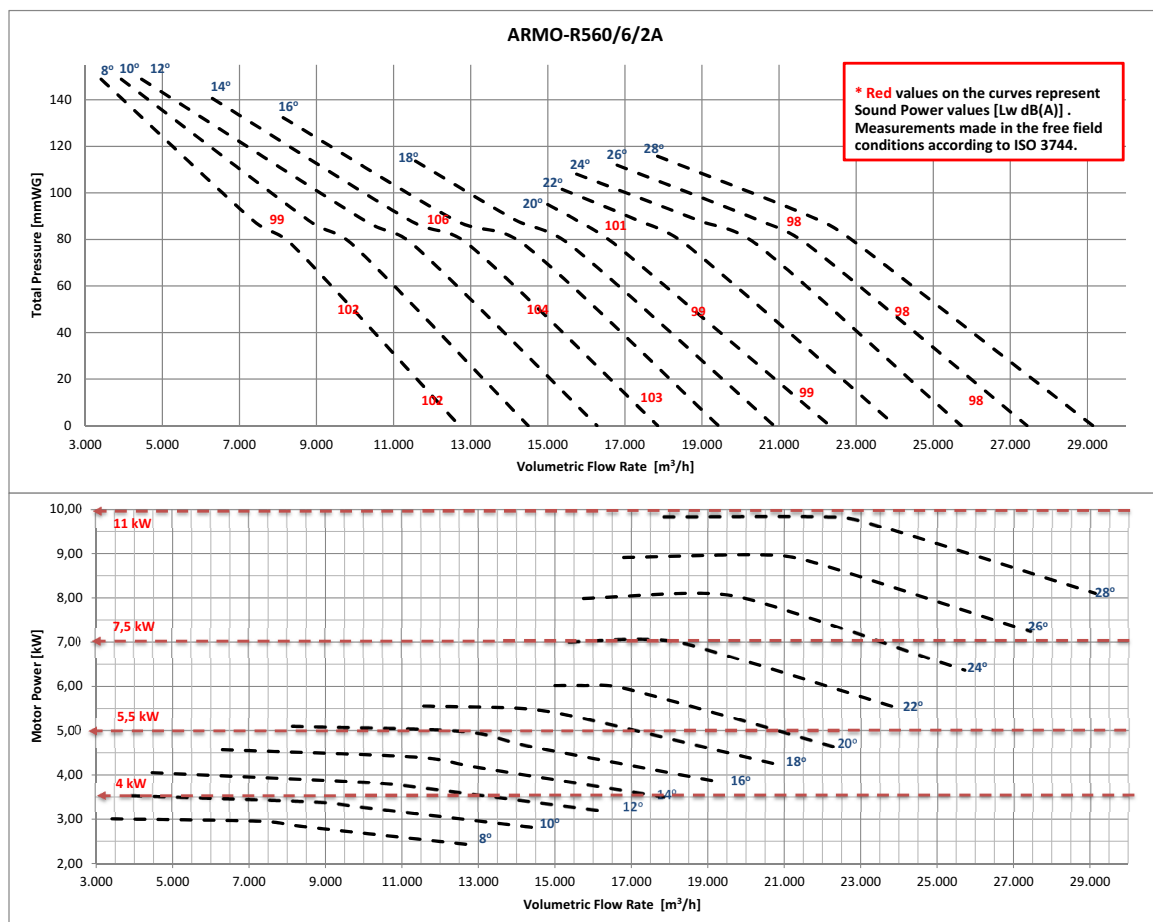
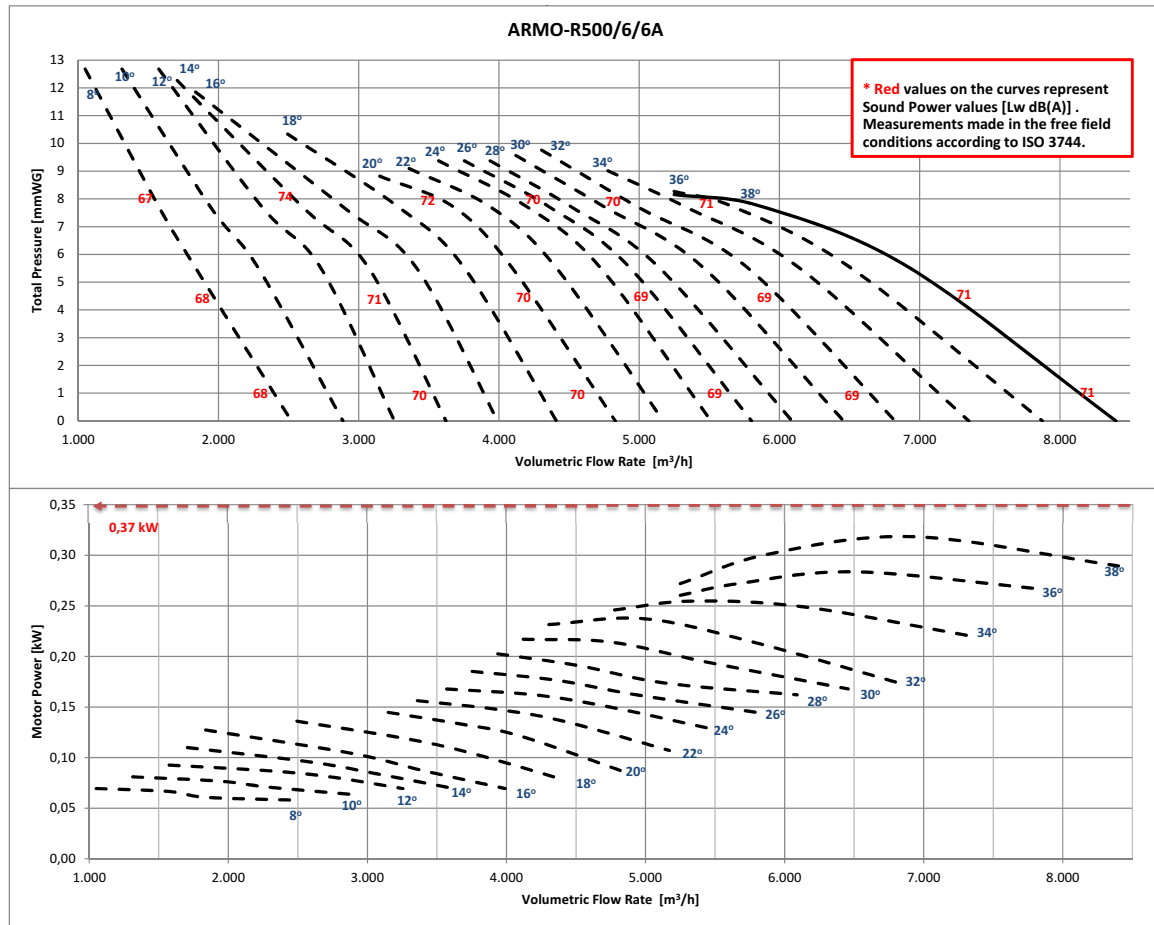


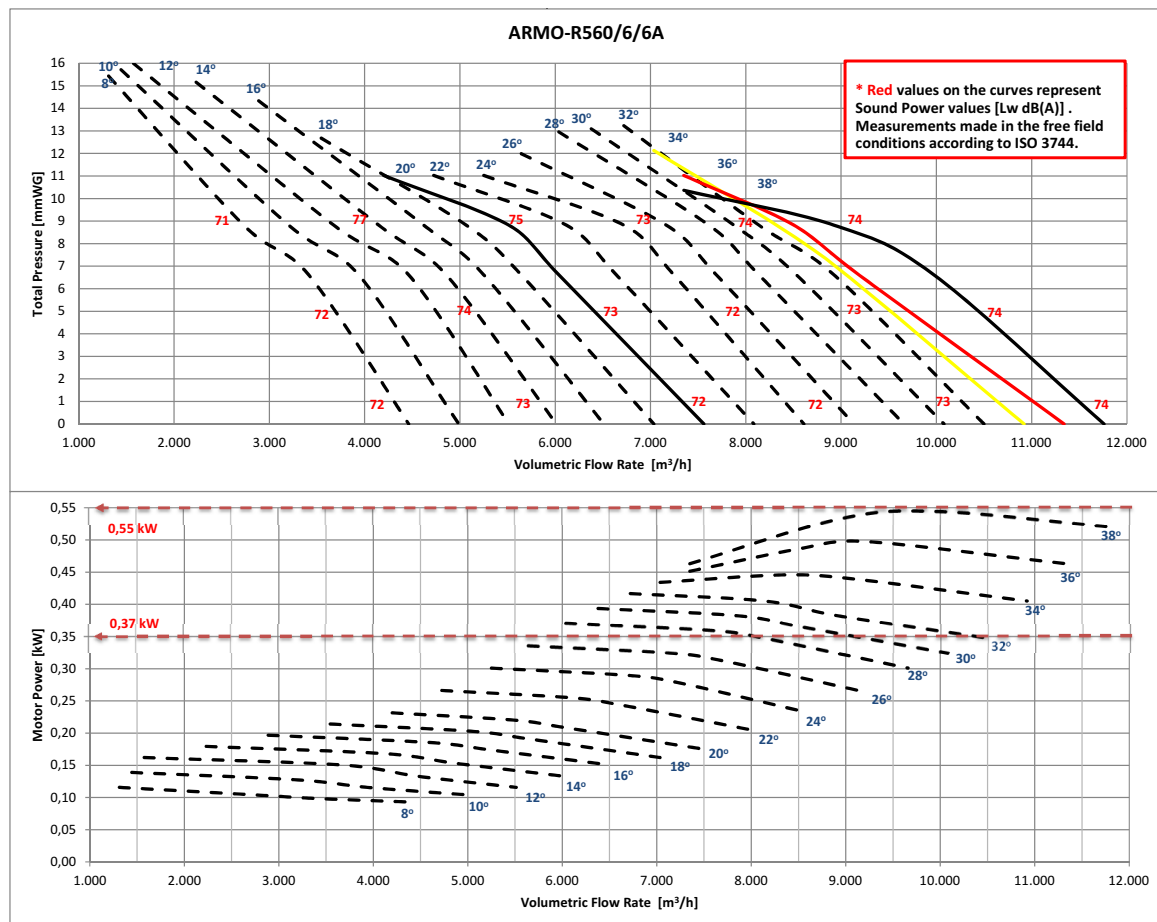
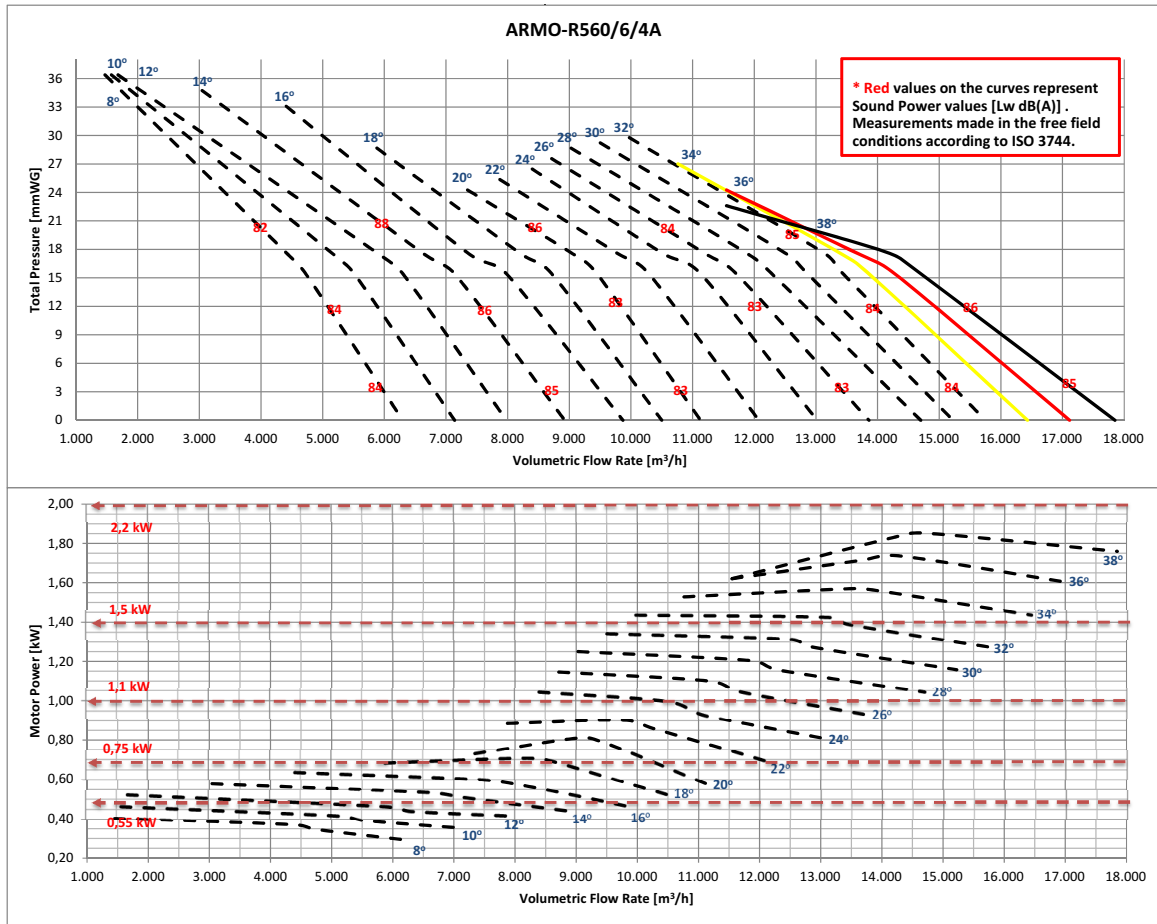
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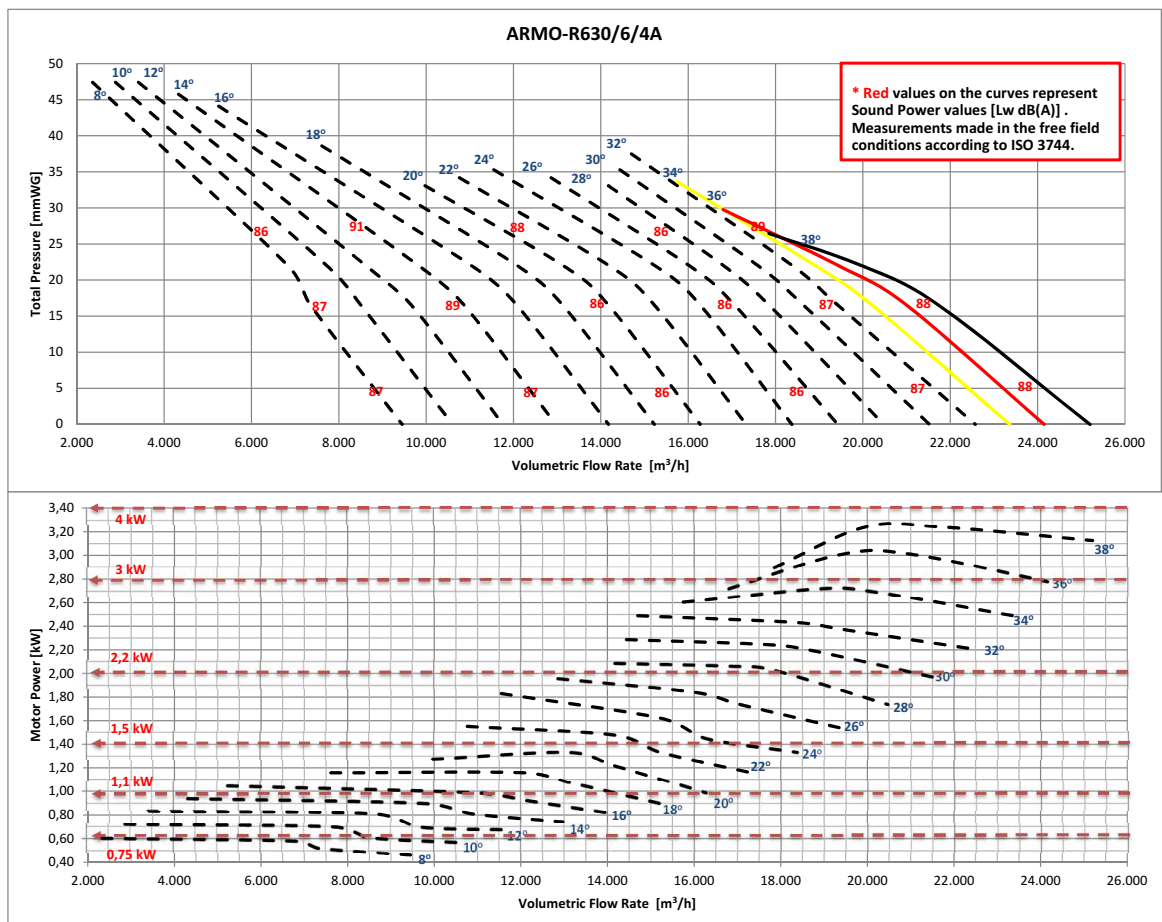
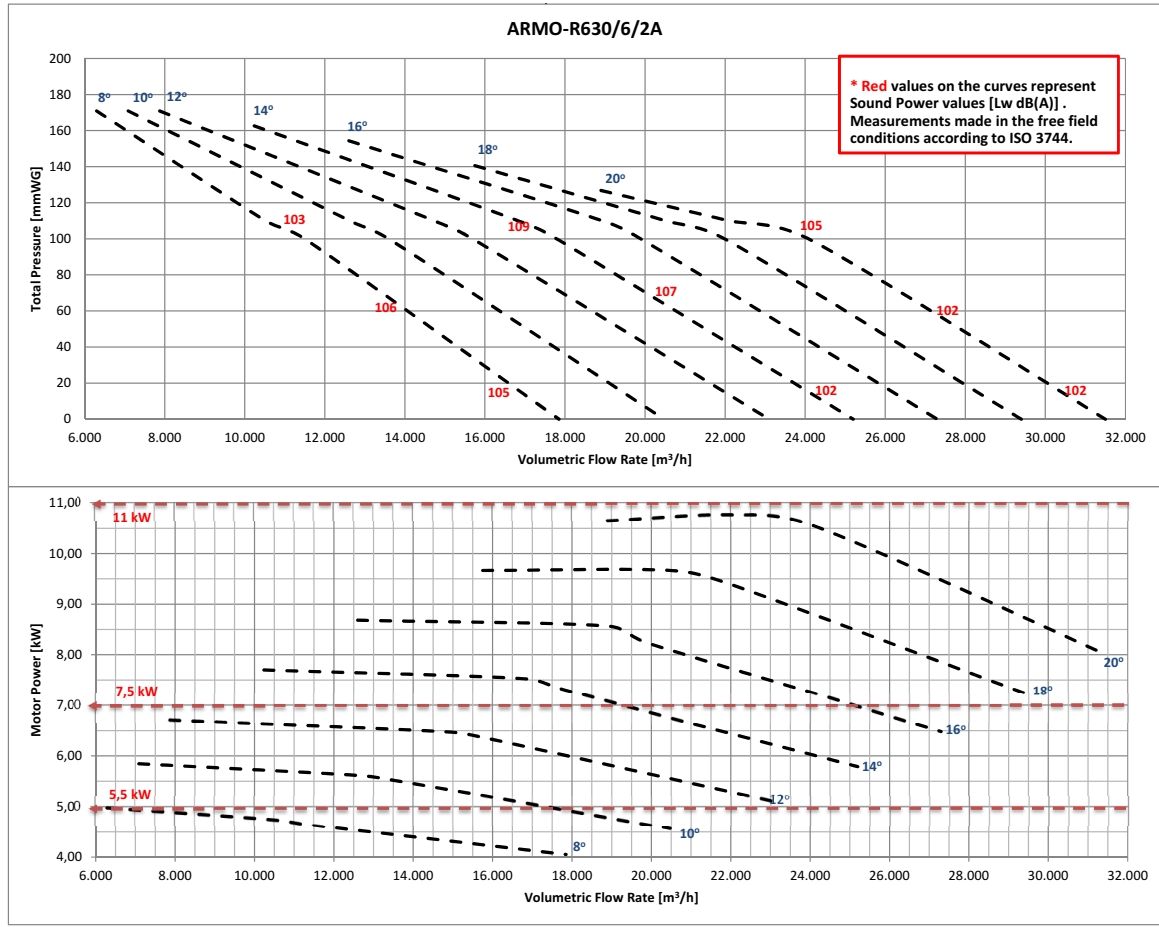


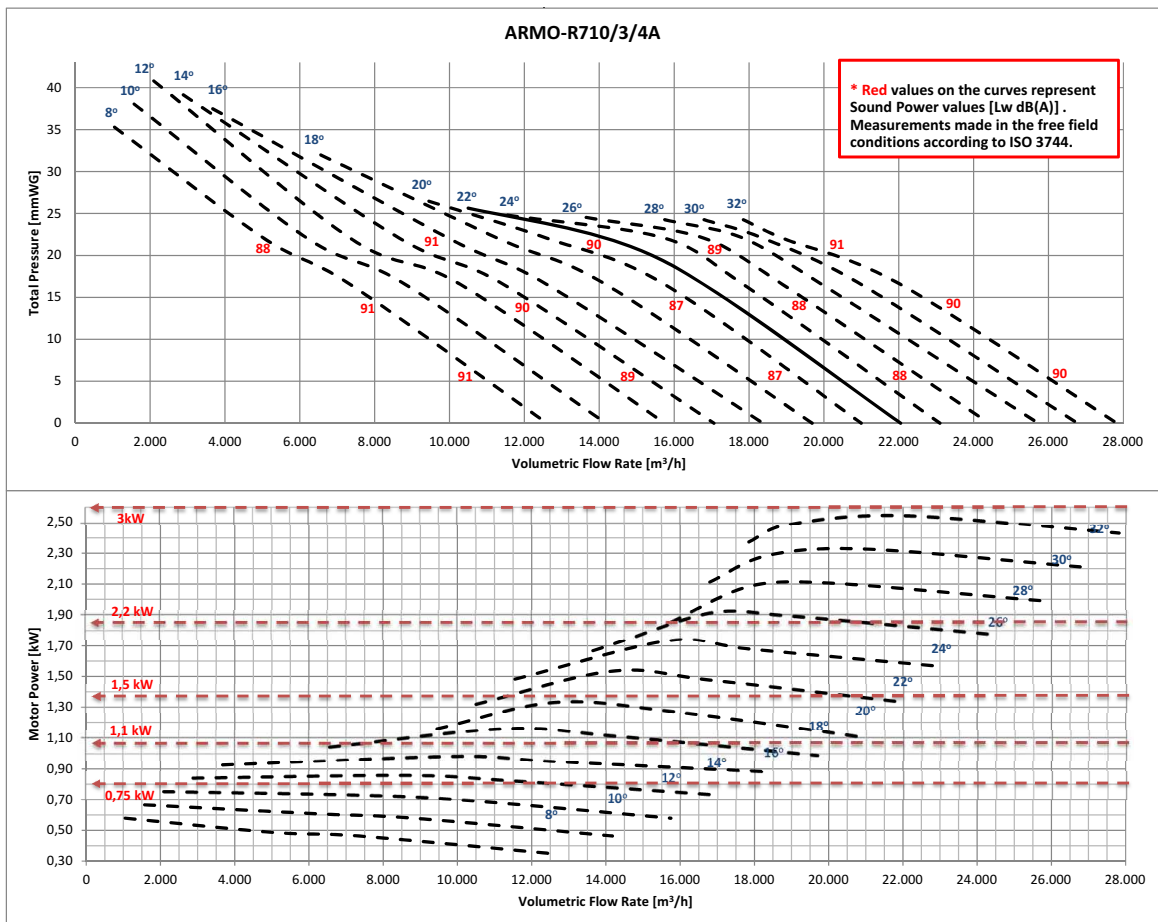
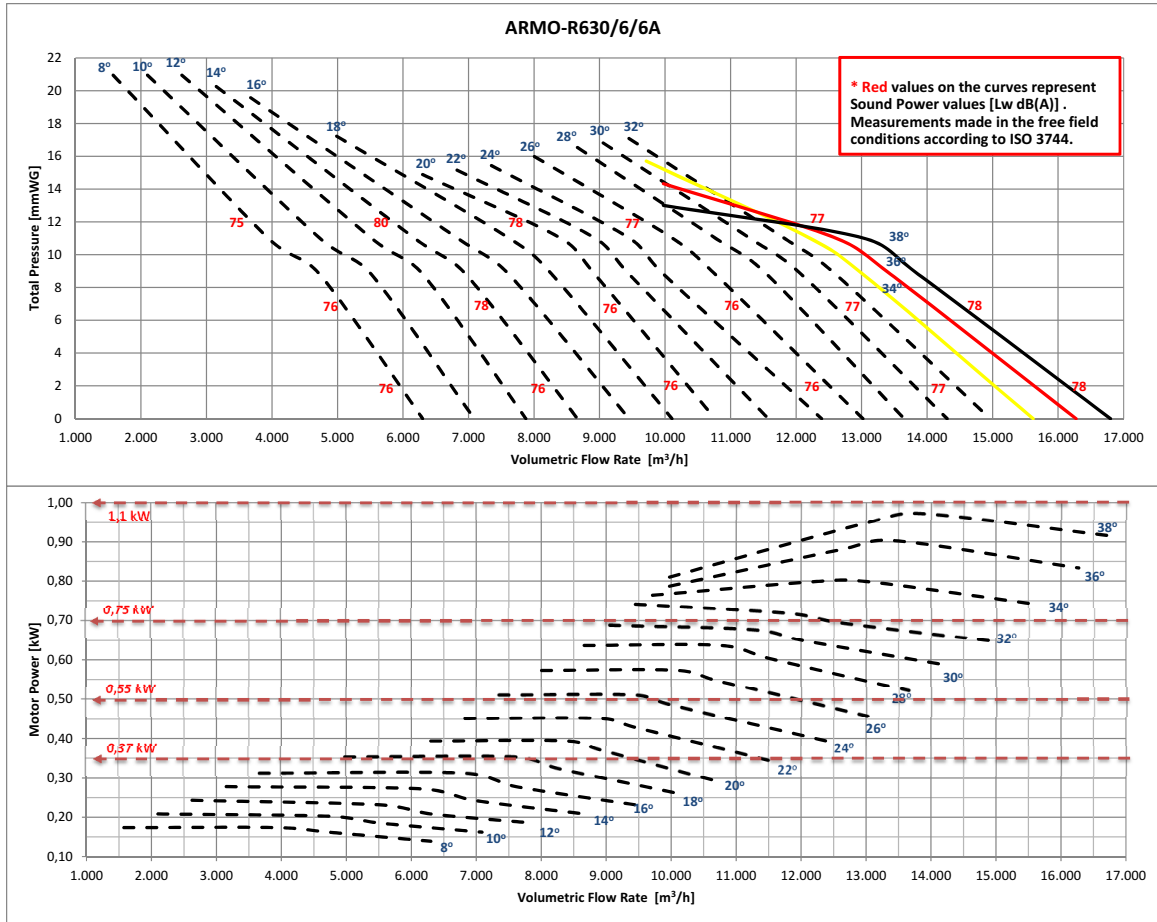


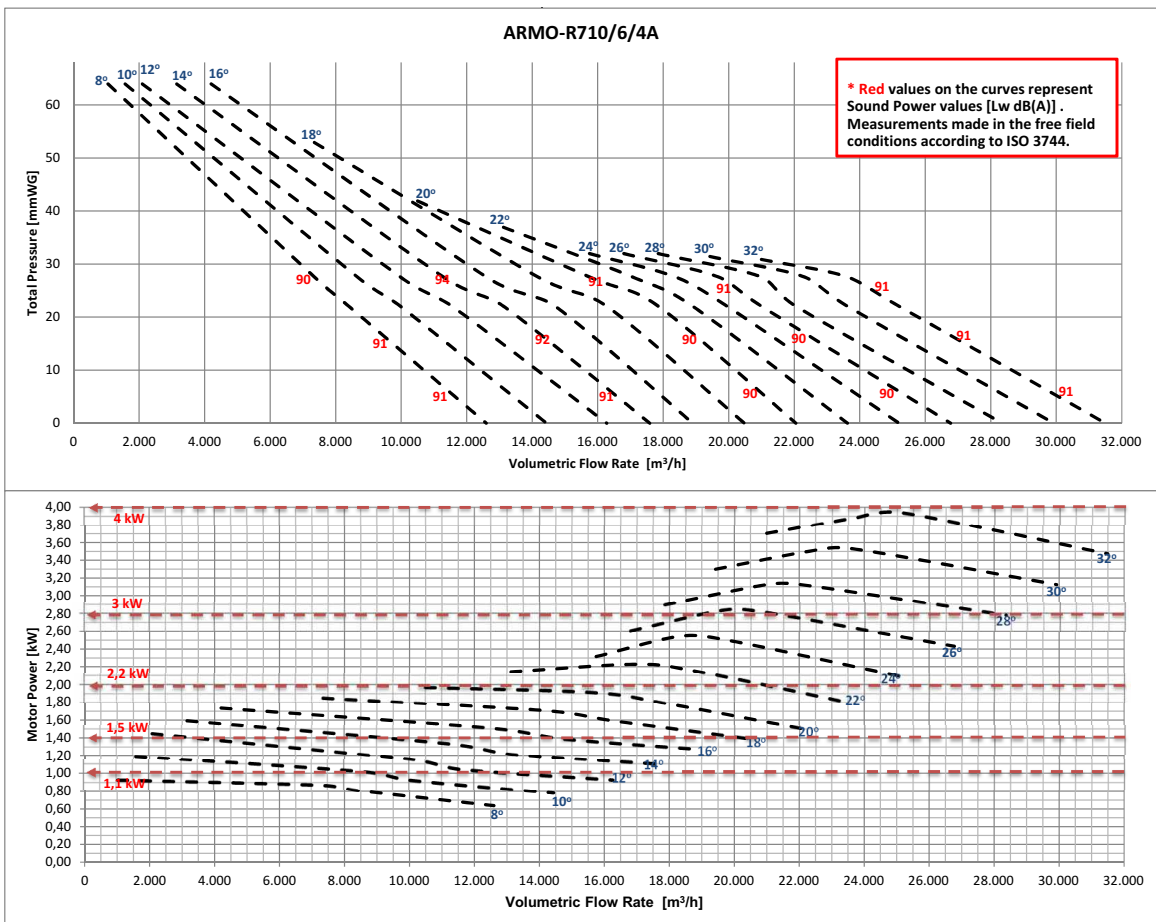
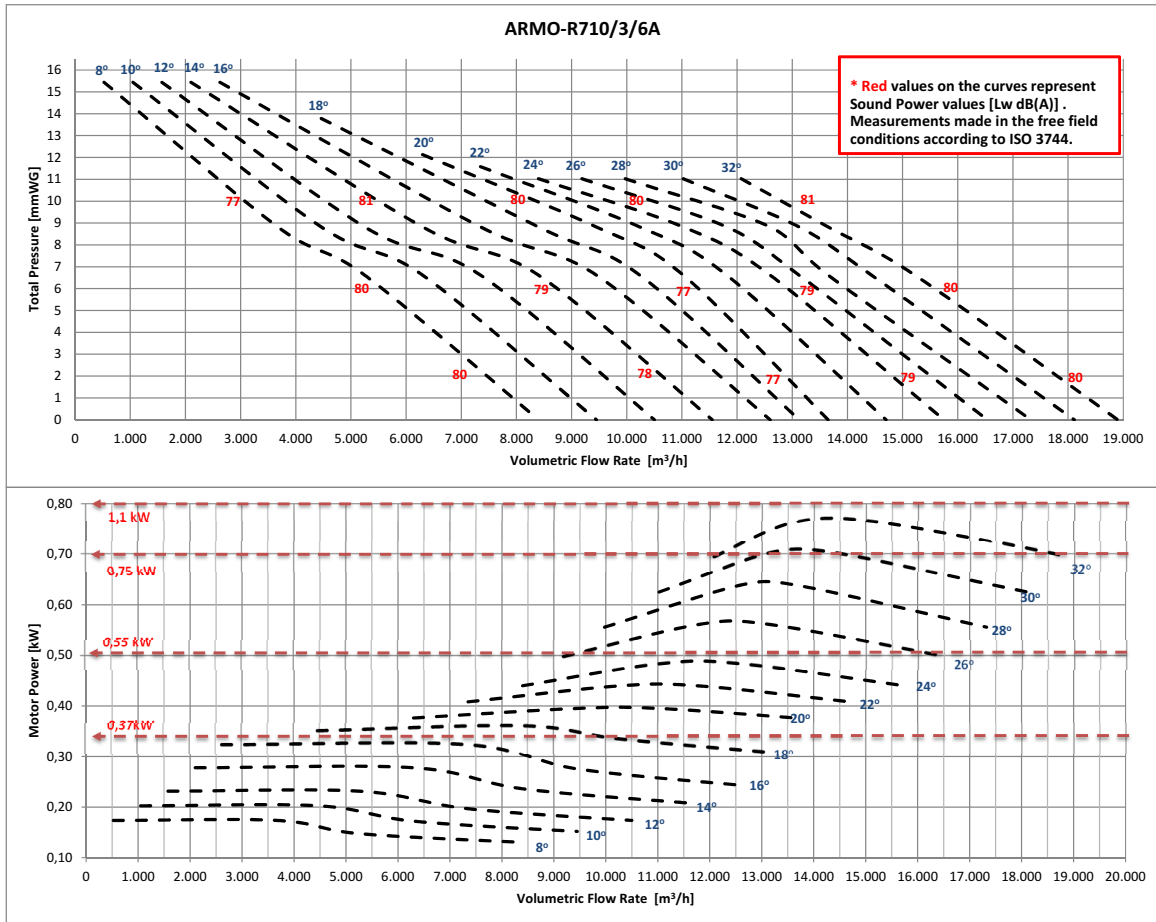


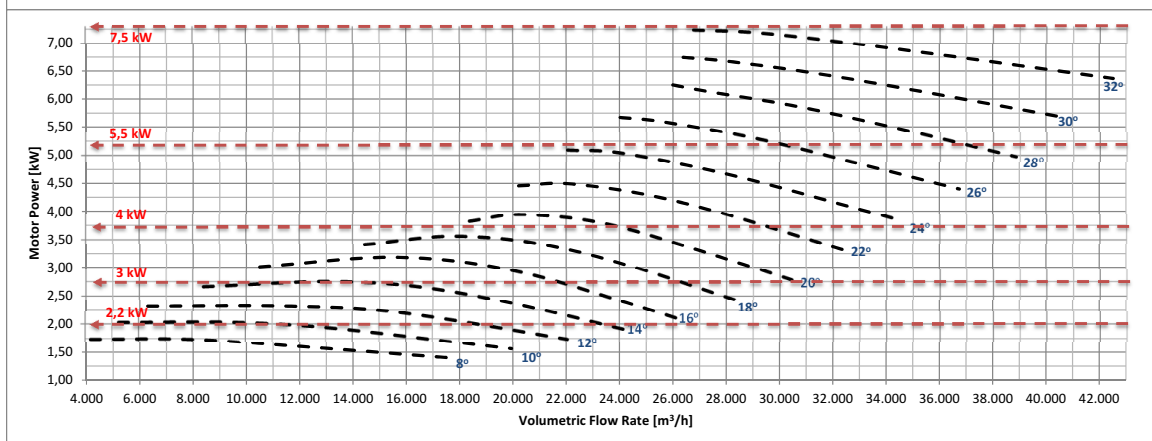
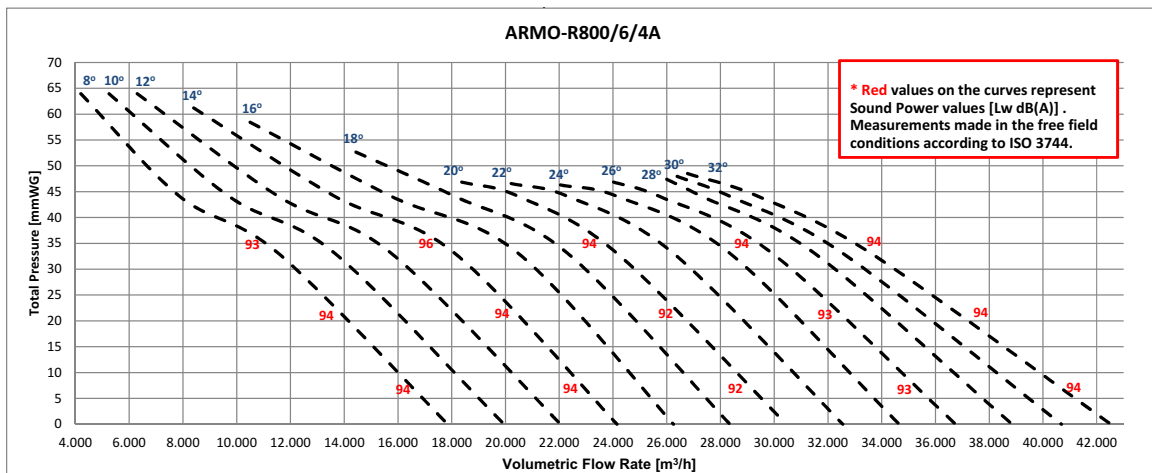
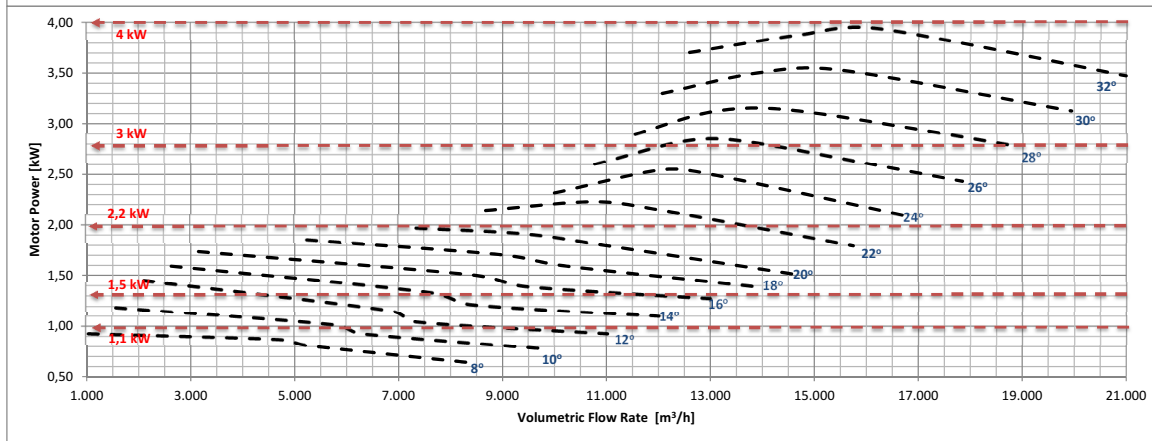
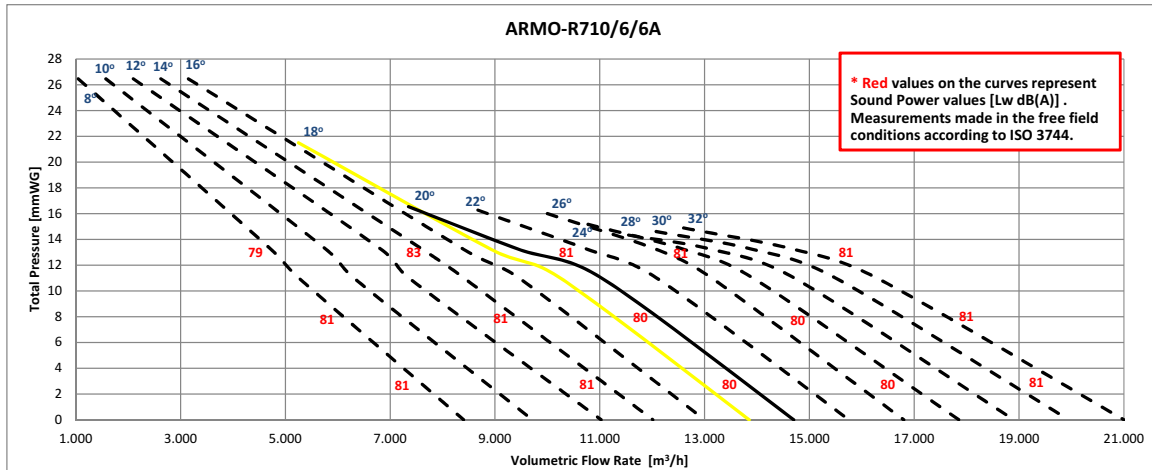


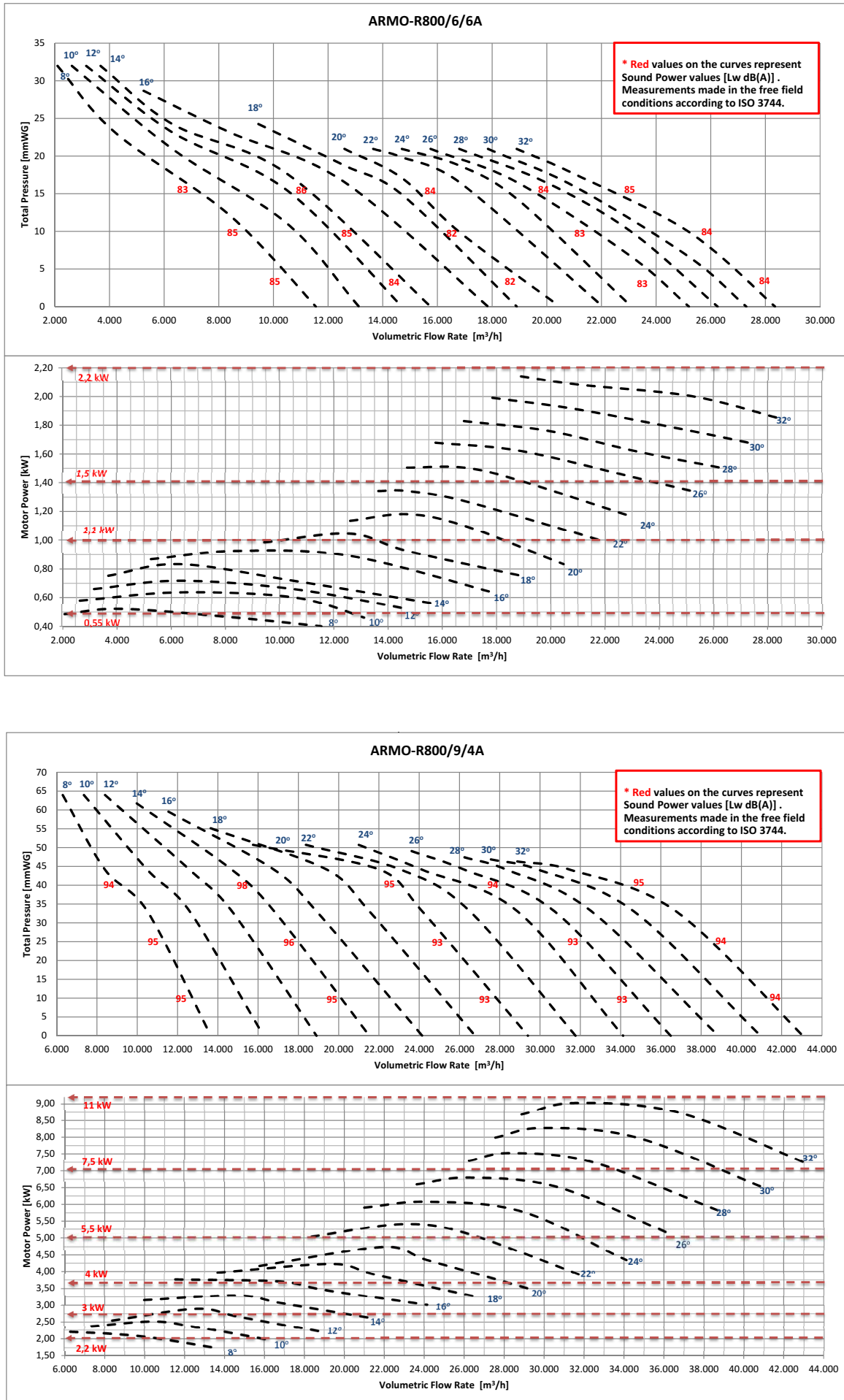


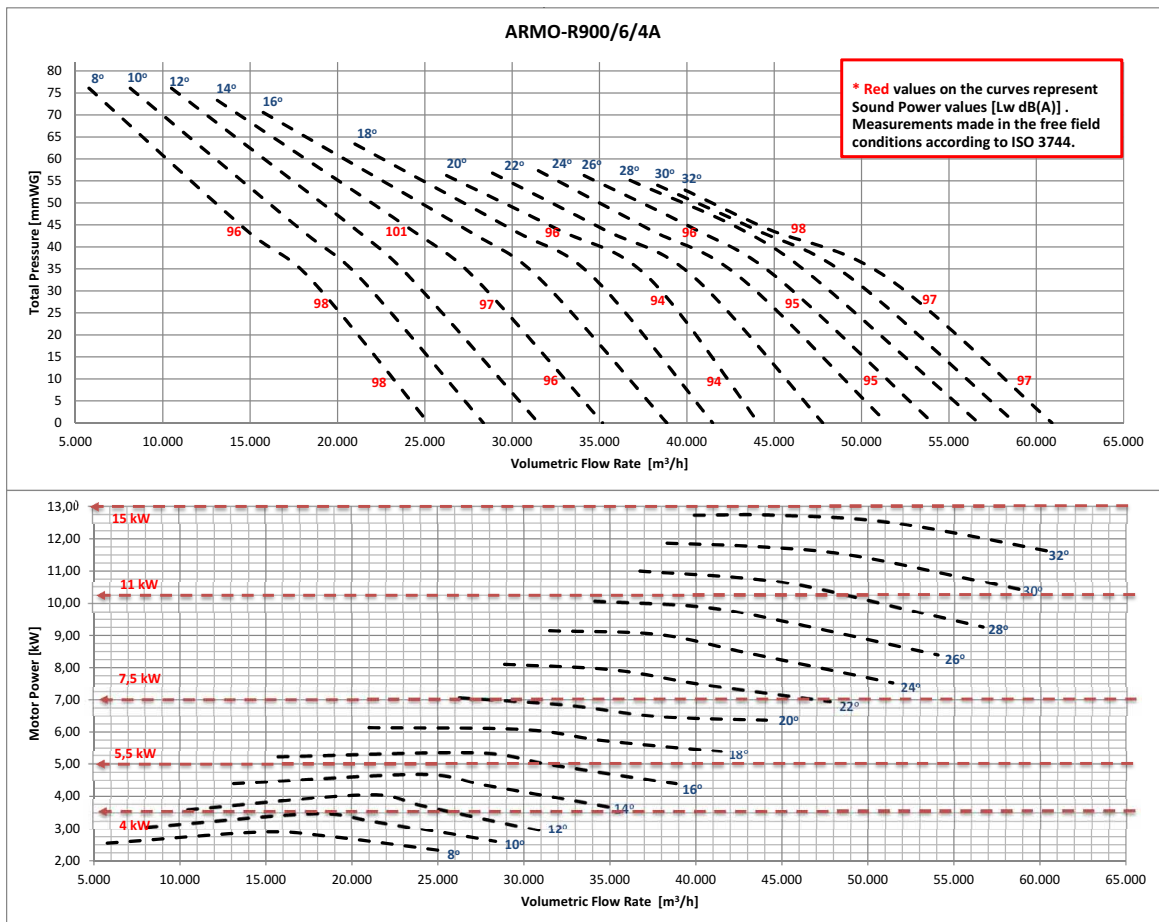
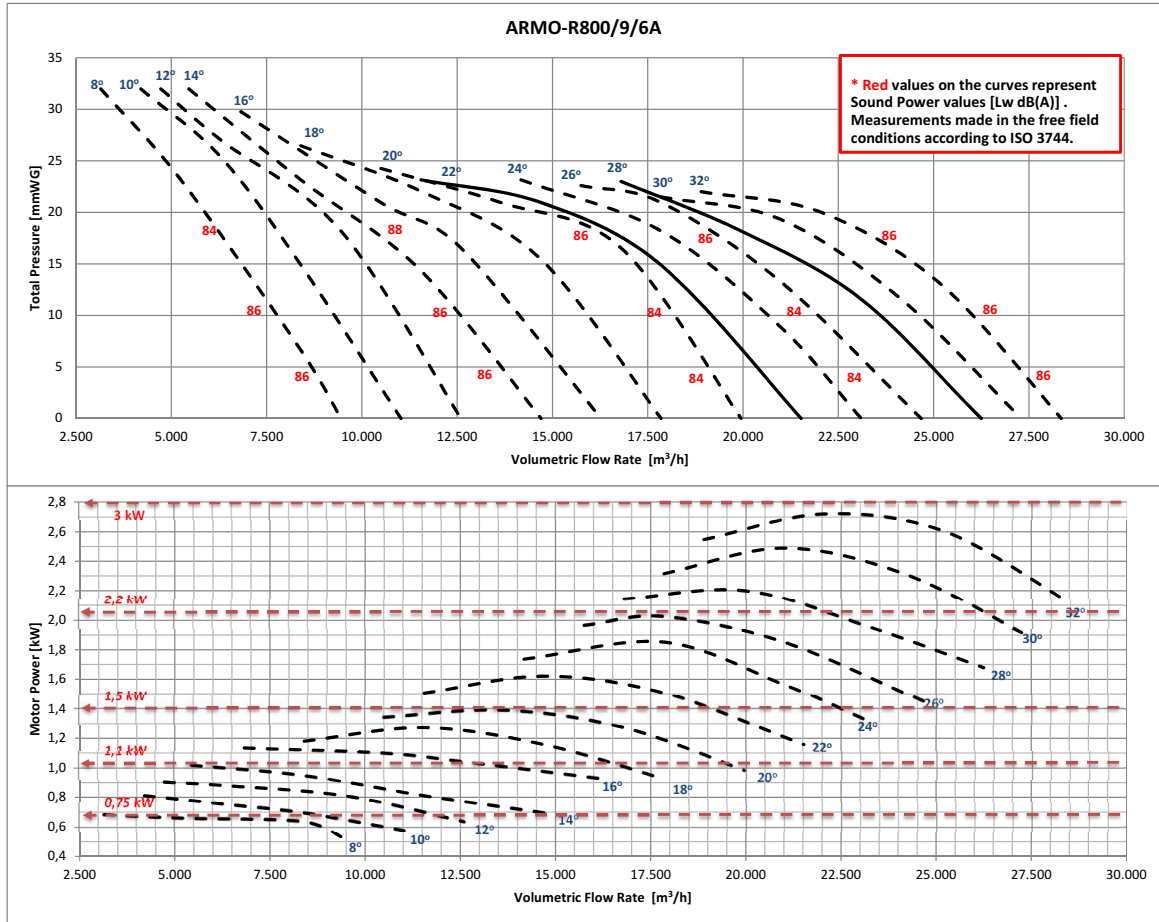


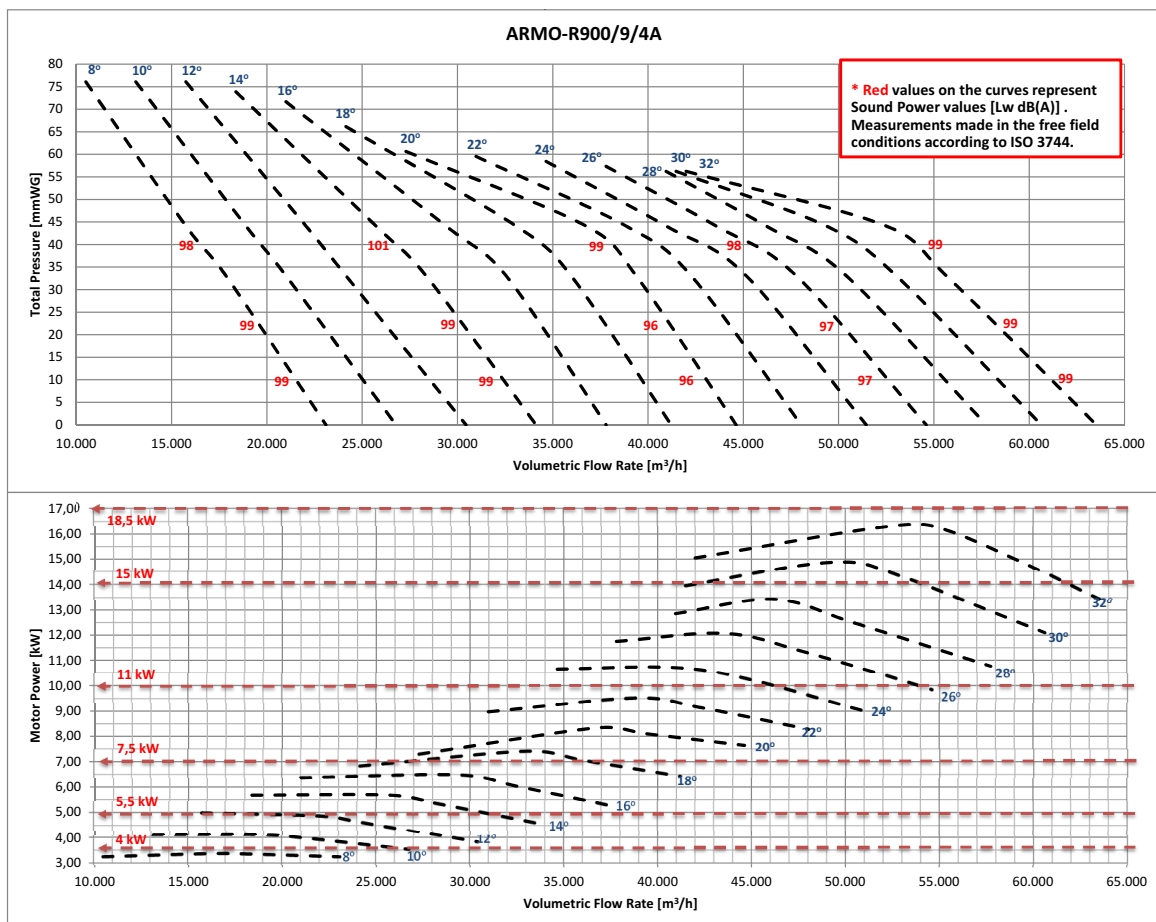
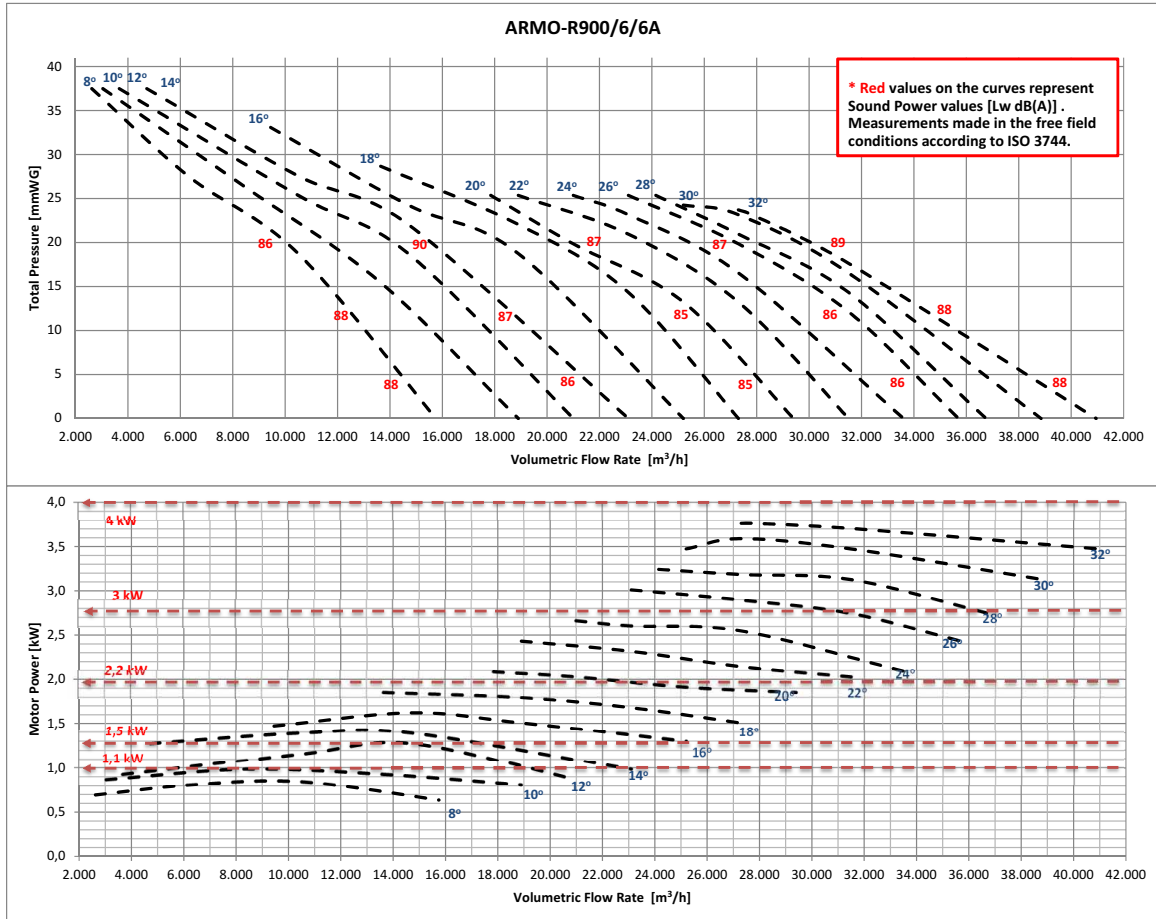


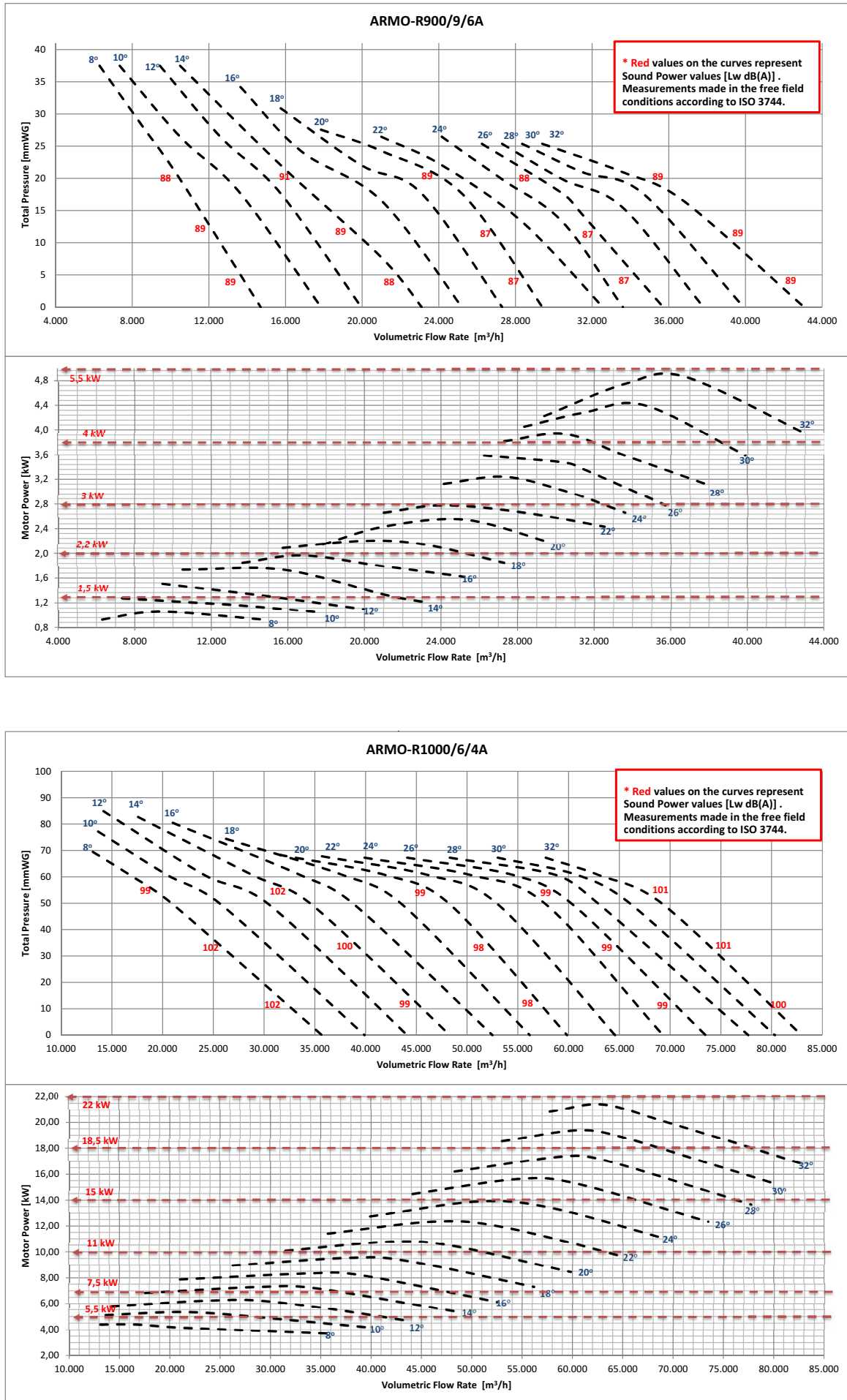


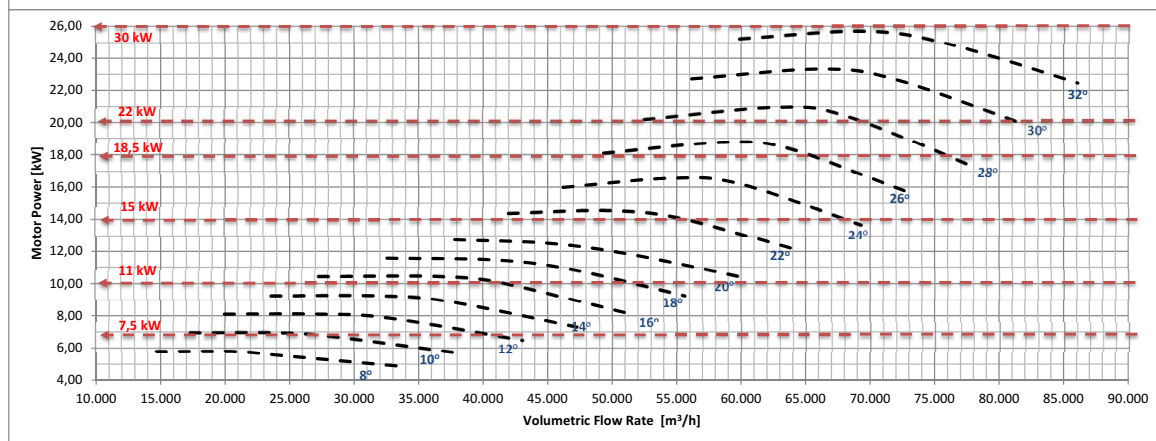
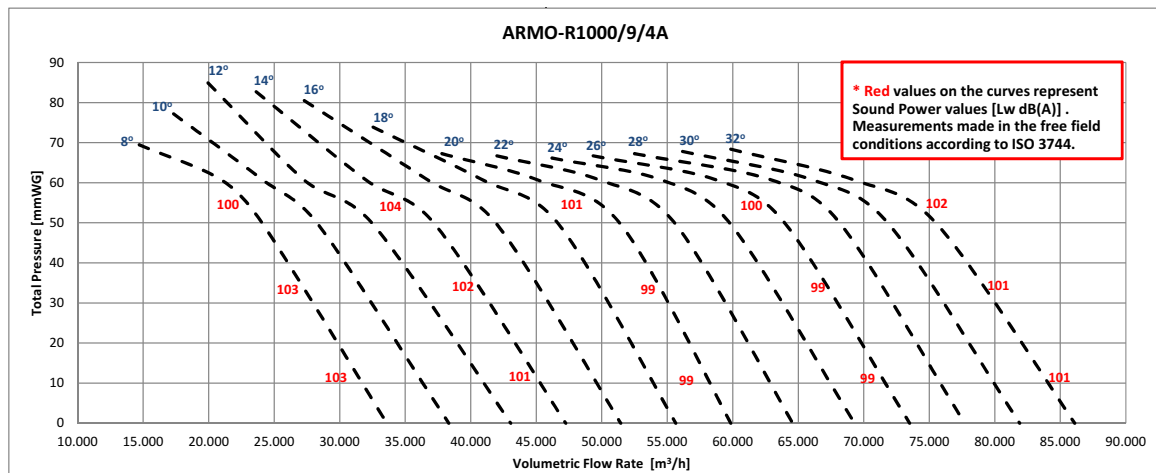
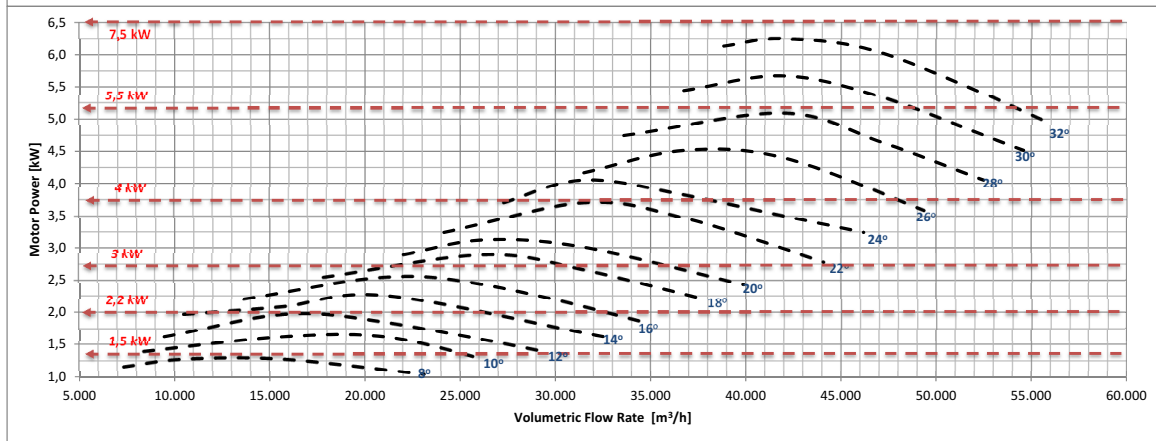
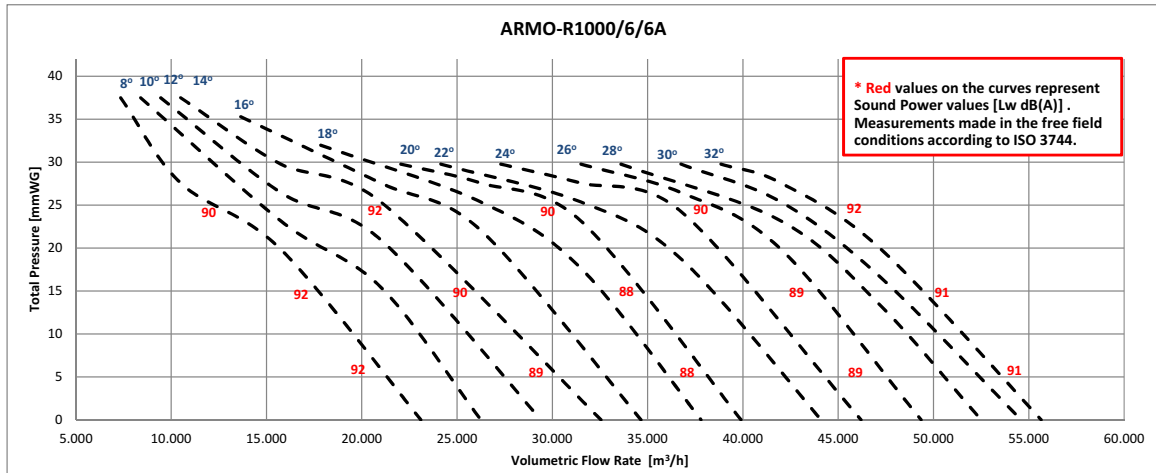


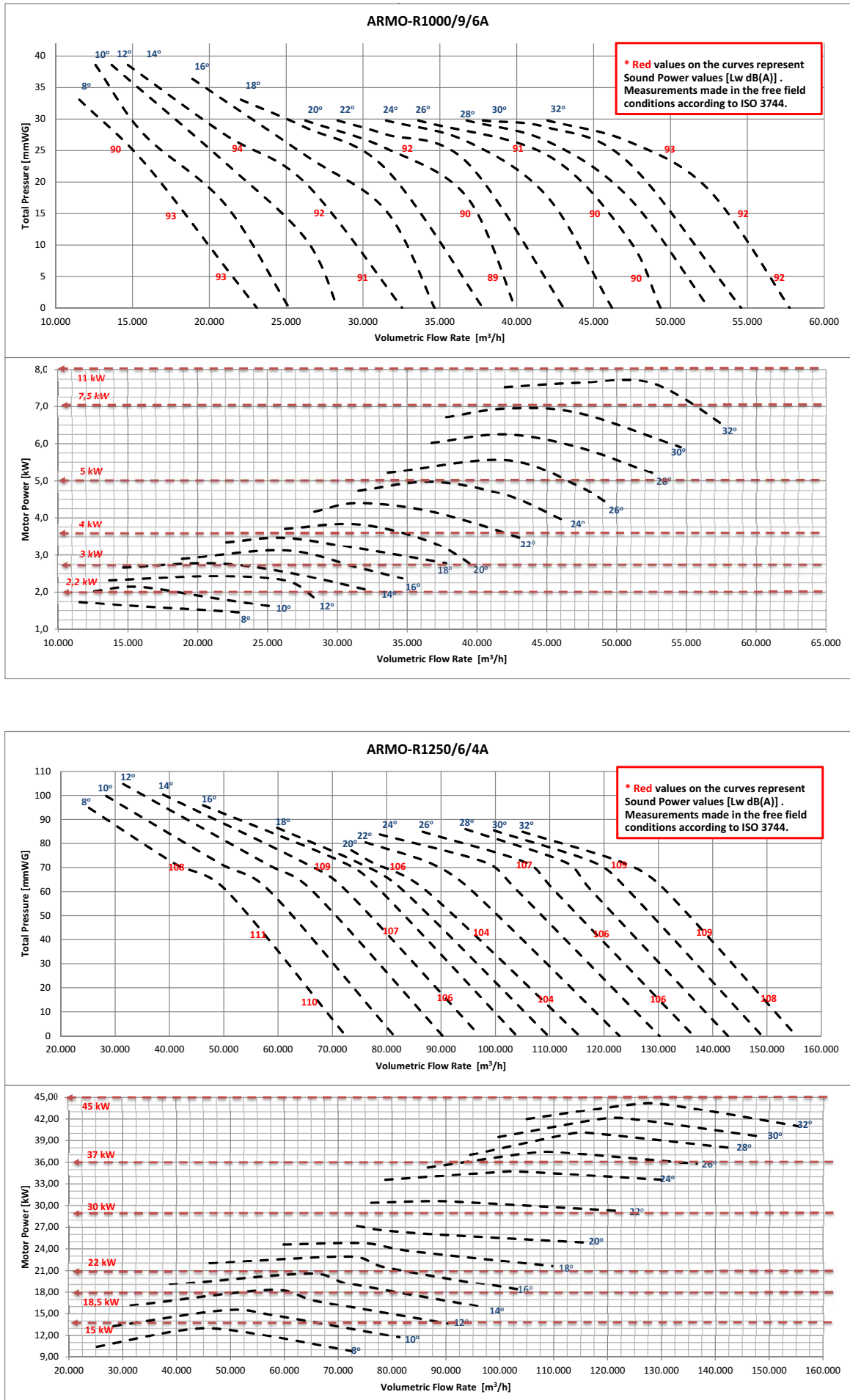


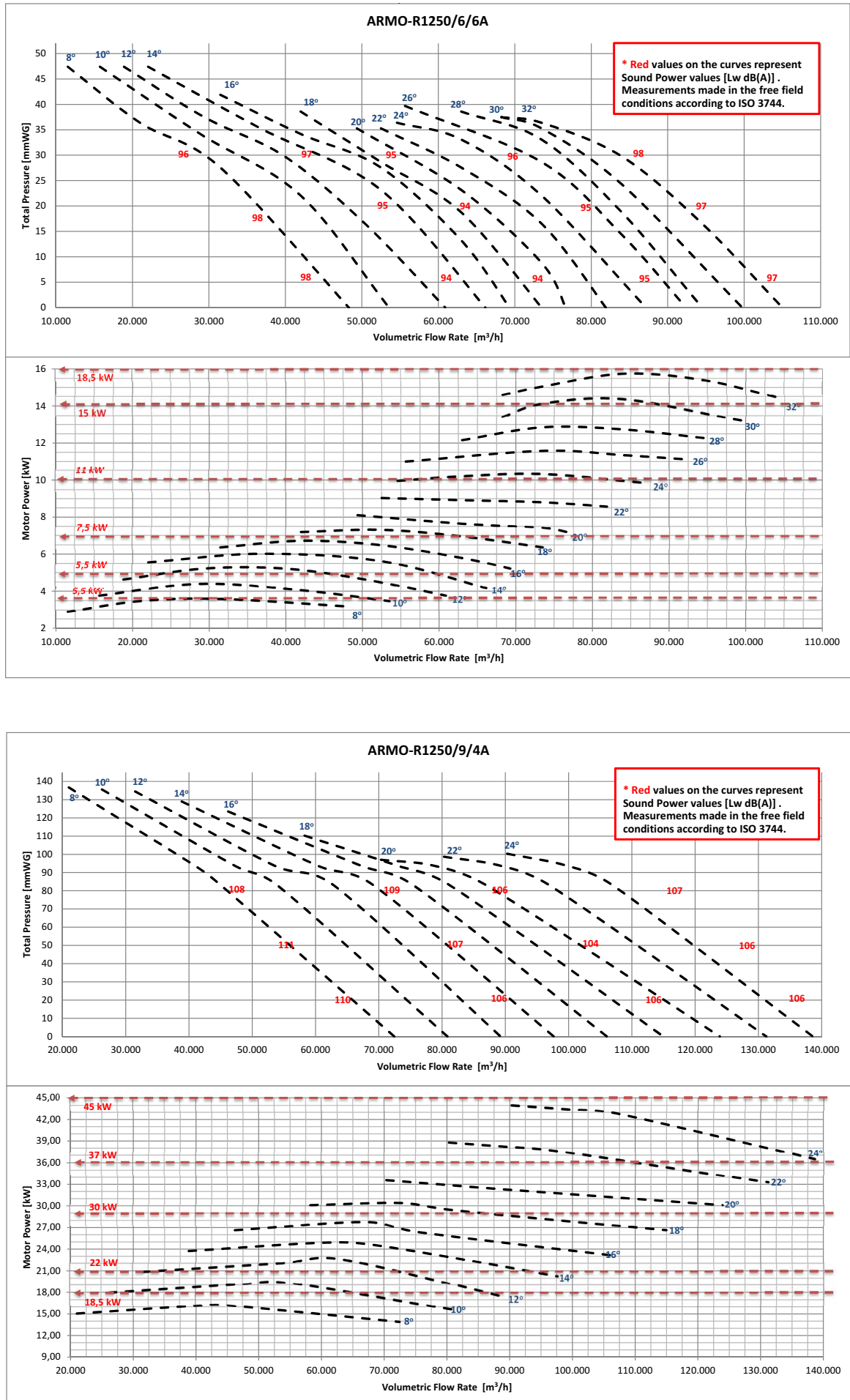


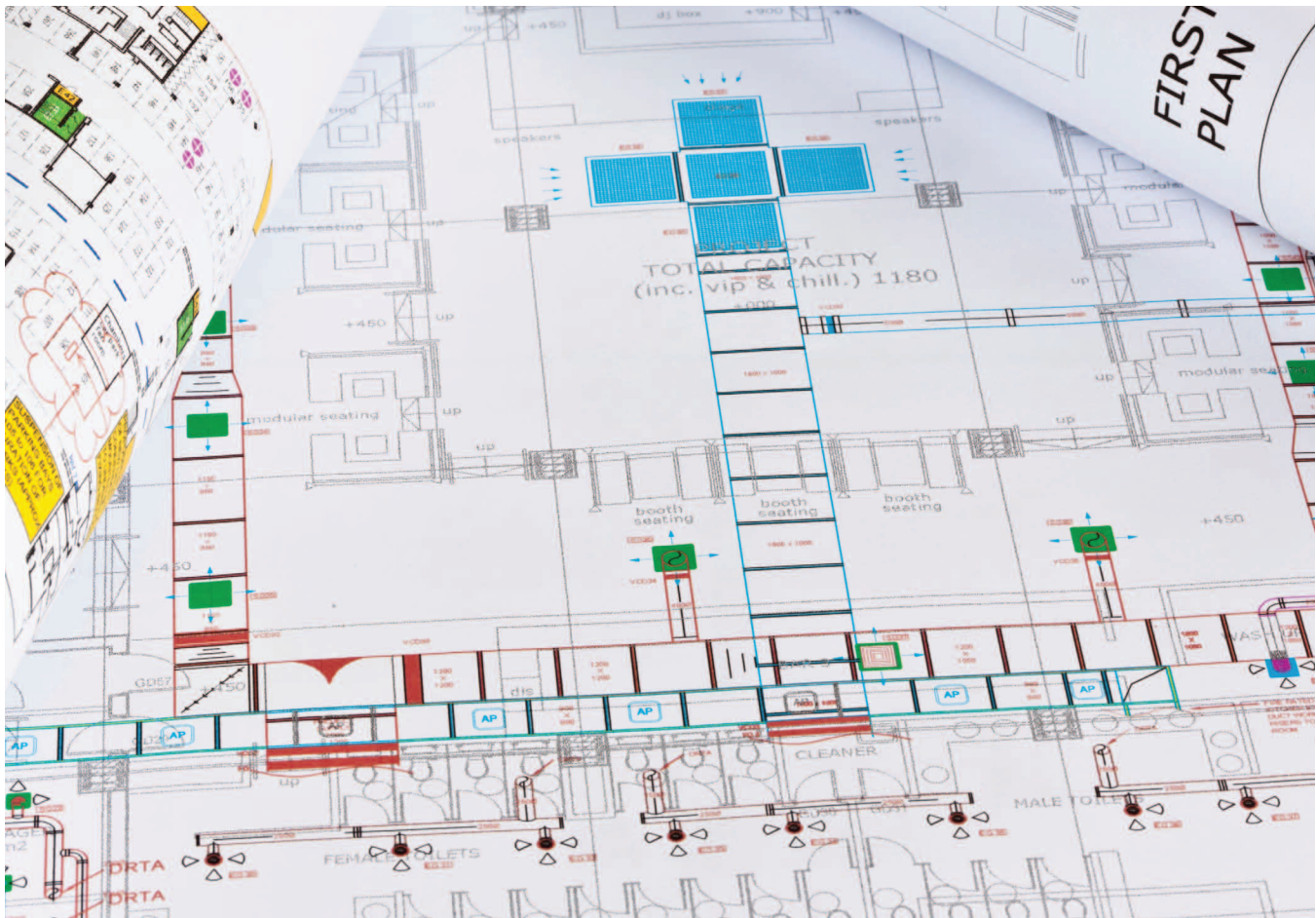
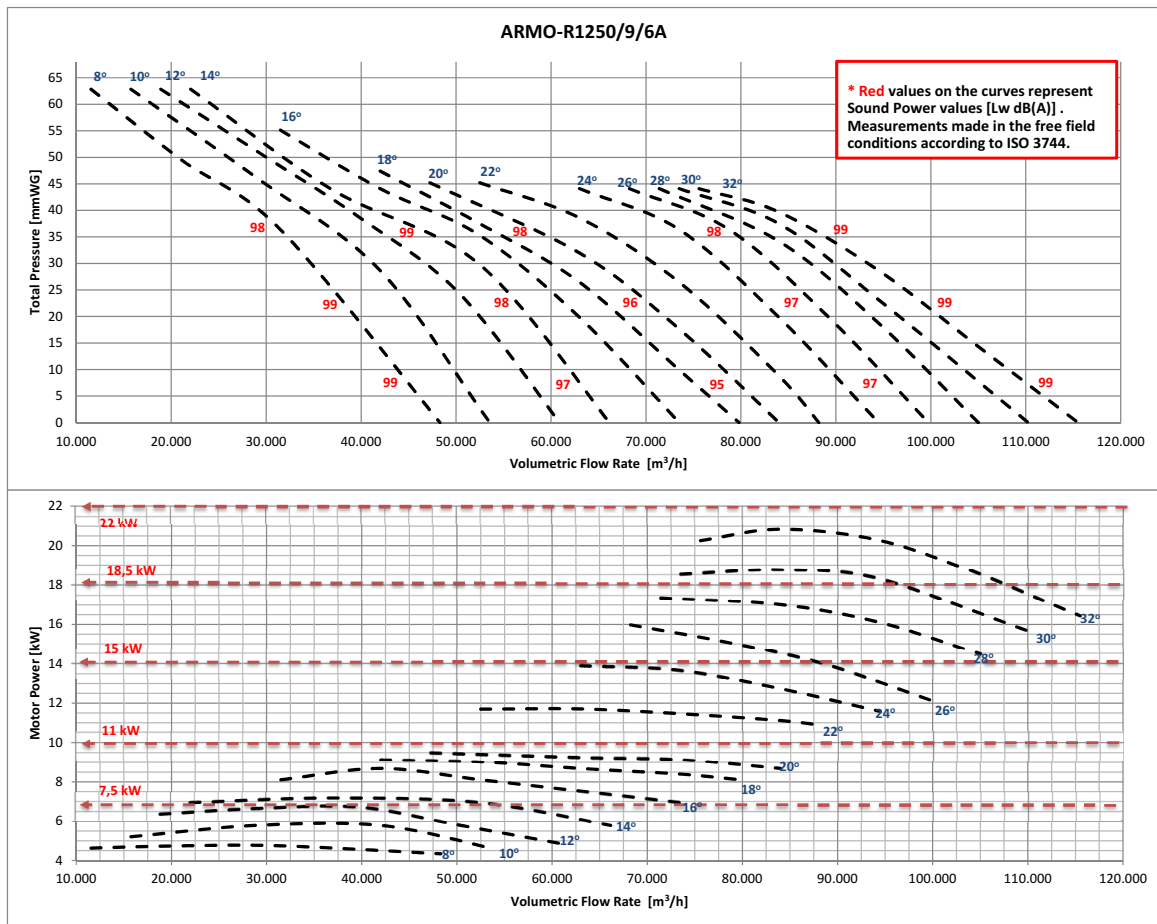














BRF-V

VERTICAL OUTLET ROOF FANS

Fan Components and Material Properties

The BRF-V series of vertical-centric roof-type radial fans are made of galvanized sheet steel with the body, mounting plate and fan wheels of the models BRF-V 225-400. The fan wheels of the BRF 450-500-560 models are made of aluminum sheet. All models have an external rotor motor with closed structure. The device is capable of handling air at max.40°C.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

BRF-V roof fans are particularly advantageous in vertical applications due to the fact that air cannot be absorbed horizontally. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices.

Since the rainwater is easily evacuated, water ingress is prevented from entering the chimney.

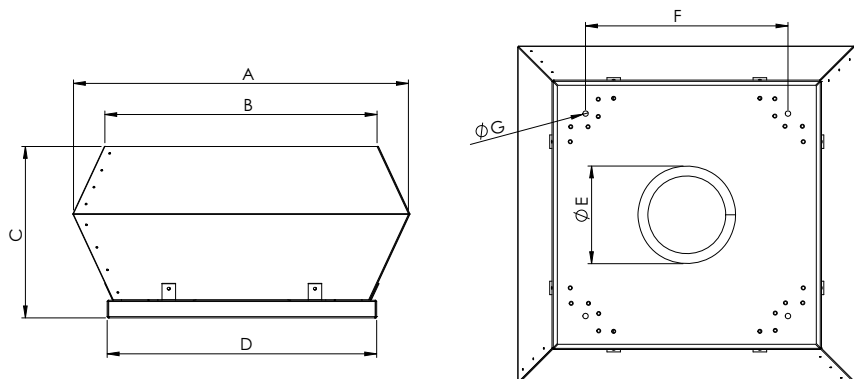
Speed Control

Optional control devices can be provided. Speed control can be done with linear voltage regulator in 1~phase products (see BSC accessory). Speed control with frequency inverter can be done in 3~phase products (see BSC-F accessory)

Usage Areas

In order to increase the air quality of indoor spaces, it is used in situations where vertical shot is required under conditions where air cannot be disposed horizontally. The BRF-V roof fans operate at low volume with an external rotor motor. It is used on the roofs of the places where the air is to be re-freshed and the chimneys on the bathroom and wc roofs of the buildings which are opened to the common shaft.

Technical Drawing and Tables

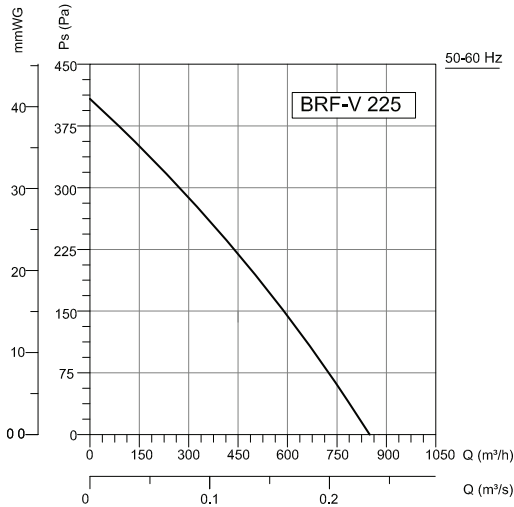


TYPE	A	B	C	D	E	F	G
BRF-V 225	350	295	190	335	146	245	10
BRF-V 315	552	450	330	505	185	450	10
BRF-V 355	745	607	385	595	234	450	10
BRF-V 400	745	607	385	595	270	450	10
BRF-V 450	900	742	512	665	282	535	10
BRF-V 500	900	742	512	665	320	535	12
BRF-V 560	1190	955	595	946	360	740	12

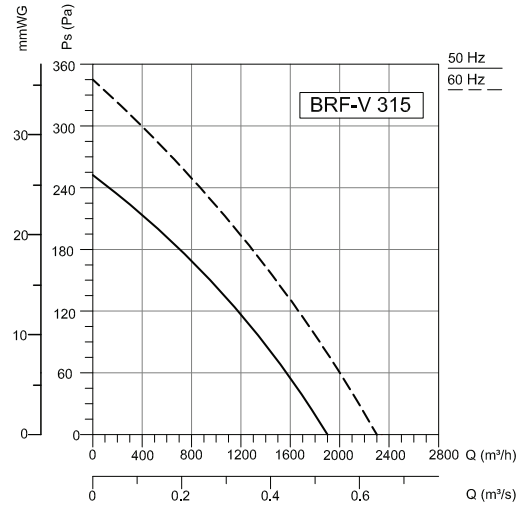
Dimensions are in (mm)

	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
BRF-V 225	230	50/60	160/220	0,71/0,99	6	2650	850	43-35	B	44	7
BRF-V 315	230	50/60	150/175	0,92/0,85	6	1450/1725	1900/2260	45-37	F	44	22
BRF-V 355	230	50/60	200/255	1,1/1,25	8	1400/1600	2850/3250	46-38	F	44	34
BRF-V 400	230	50/60	310/460	1,56/2,27	10	1380/1560	4000/4521	47-39	F	44	39
BRF-V 450	230	50/60	425/630	2,17/3,15	10	1390/1550	5400/6000	50-42	F	44	51
BRF-V 500	380 Δ/Y	50	960/620	2/1,1	-	1400/1050	7600/5700	52-44	F	44	60
BRF-V 560	380 Δ/Y	50	1515/870	2,9/1,7	-	1250/950	9600/7300	60-52	F	44	99

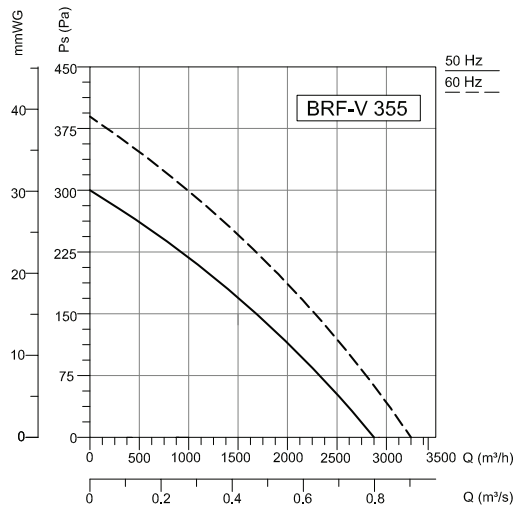
The sound level is measured at a distance of 4-10 m in open field condition.



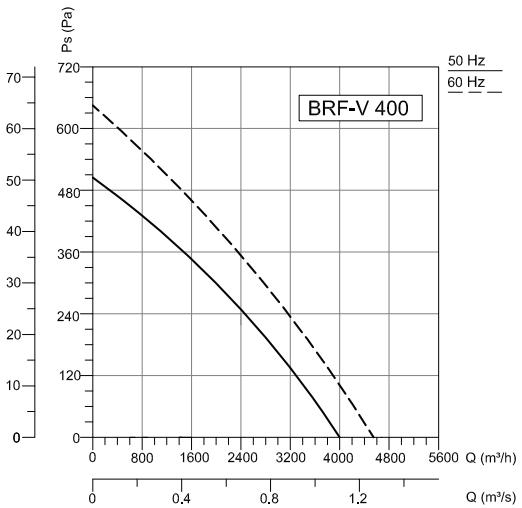
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	65	36	54	58	60	59	56	51	44	dB(A)
L_{WA} Surrounding	66	37	53	59	61	60	57	52	45	dB(A)



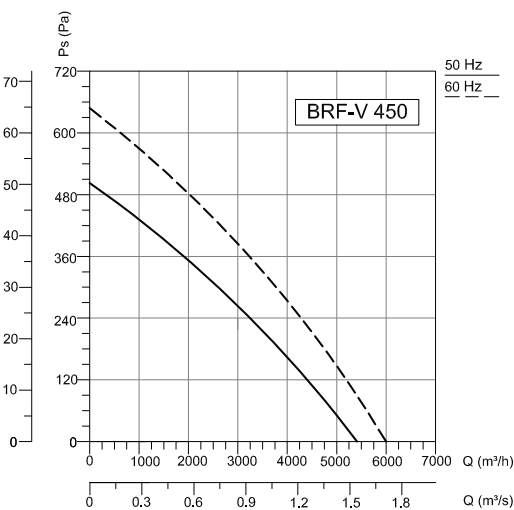
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L_{WA} Surrounding	70	57	59	63	65	64	61	56	49	dB(A)



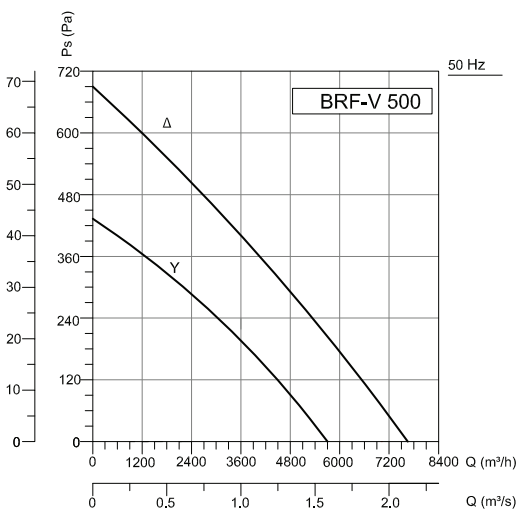
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	67	54	56	60	62	61	58	53	46	dB(A)
L_{WA} Surrounding	69	56	58	62	64	63	60	55	48	dB(A)



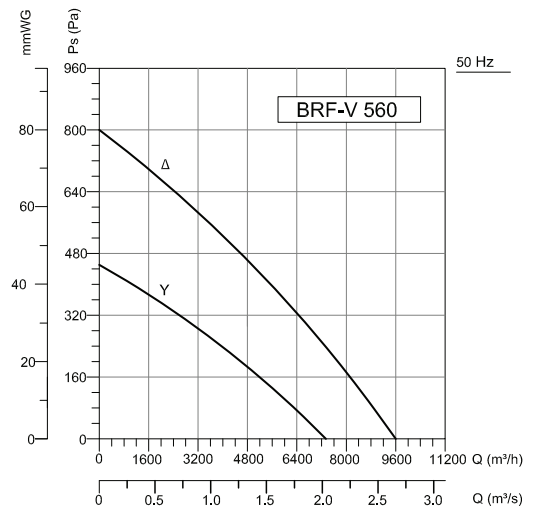
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	39	58	66	61	67	54	50	47	dB(A)
L_{WA} Surrounding	70	43	63	62	66	64	57	52	48	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	68	51	56	63	62	59	57	52	53	dB(A)
L_{WA} Surrounding	73	43	62	64	68	67	62	57	55	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	73	46	60	70	68	64	61	56	54	dB(A)
L_{WA} Surrounding	75	44	62	66	71	68	66	59	55	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	81	54	70	74	76	75	71	66	59	dB(A)
L _{WA} Surrounding	83	54	71	75	77	78	74	68	61	dB(A)

Accessories





BRF-V EC

VERTICAL OUTLET ROOF FANS

Fan Components and Material Properties

The BRF-V EC series of vertical-centric roof radial fans are made of galvanized sheet steel. The fan wheels of the BRF 450-500-560 models are made of aluminum sheet. All models are equipped with EC motor with integrated speed control.

Fan Structure

The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

BRF-V roof fans are particularly advantageous in vertical applications due to the fact that air cannot be absorbed horizontally. Thanks to the aerodynamic wing structure, they work quietly. Since the rainwater is easily evacuated, water ingress

is prevented from entering the chimney. With a more efficient motor, system efficiency is increased and lower operating costs are ensured.

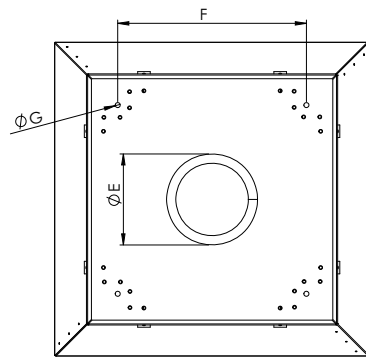
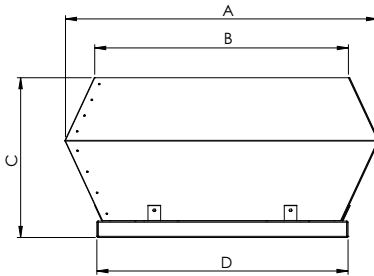
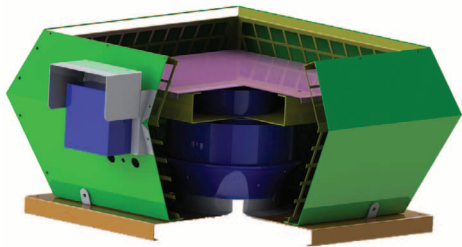
Speed Control

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

Usage Areas

In order to increase the air quality of indoor spaces, it is used in situations where vertical shot is required under conditions where air cannot be disposed horizontally. The BRF-V roof fans operate at low volume with an external rotor motor. It is used on the roofs of the places where the air is to be refreshed and the chimneys on the bathroom and wc roofs of the buildings which are opened to the common shaft.

Technical Drawing and Tables



Accessories

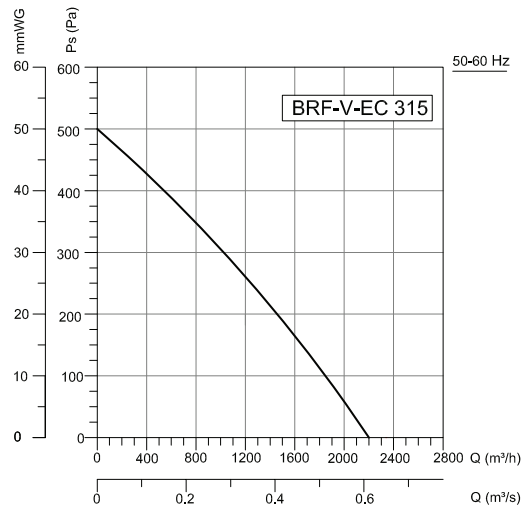


TYPE	A	B	C	D	E	F	G
BRF-V EC 315	552	450	330	505	185	450	10
BRF-V EC 355	745	607	385	595	235	450	10
BRF-V EC 400	745	607	385	595	270	450	10
BRF-V EC 450	900	742	512	665	280	535	10
BRF-V EC 500	900	742	512	665	320	535	12
BRF-V EC 560	1190	955	595	946	360	740	12

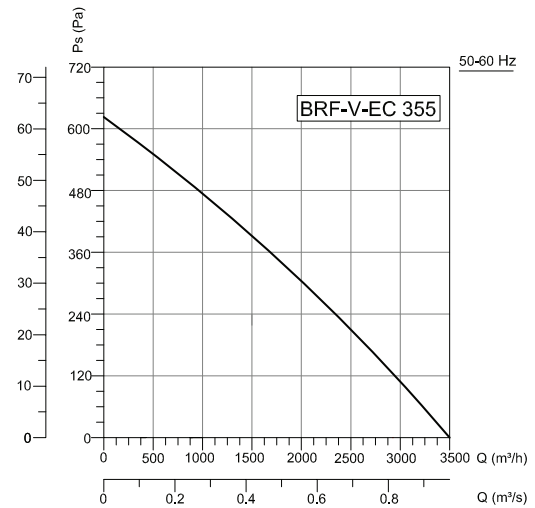
Dimensions are in (mm)

	VOLTAGE	FREQUENCY	POWER	CURRENT	SPEED	AIR FLOW	MAX. PRESSURE	SOUND PRESSURE
TYPE	V	Hz	W	(A)	r.p.m	m³/h	Pa	dB(A)
BRF-V EC 315	220	50/60	350	1,5	2000	2200	500	45-37
BRF-V EC 355	220	50/60	400	2,1	1850	3500	620	46-38
BRF-V EC 400	220	50/60	420	2,3	1450	4000	600	47-39
BRF-V EC 450	380	50/60	1000	1,5	1450	6500	650	50-42
BRF-V EC 500	380	50/60	870	1,46	1100	7000	450	52-44
BRF-V EC 560	380	50/60	770	1,3	850	8500	320	60-52

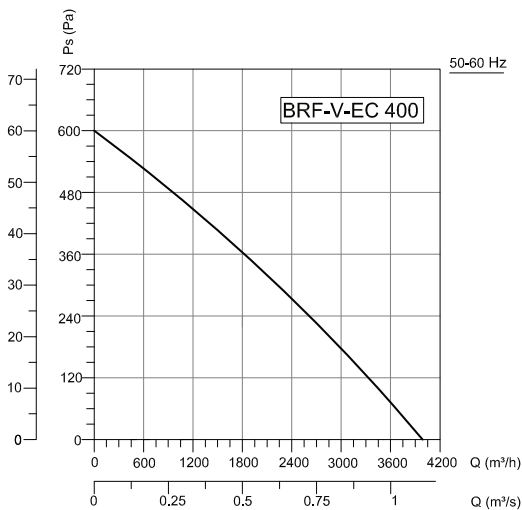
Sound Level Measured from 3m distance in room condition.



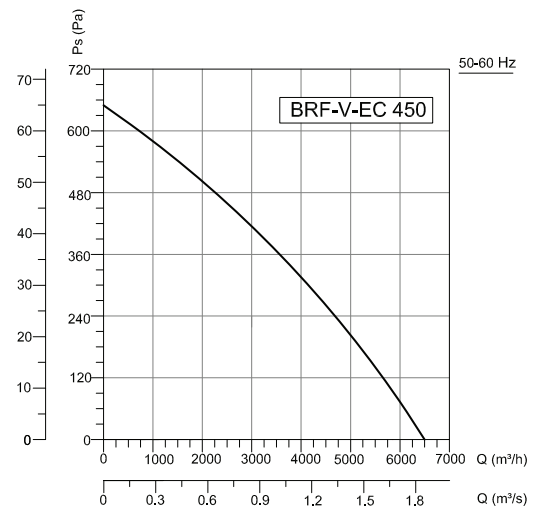
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	68	55	57	61	63	62	59	54	47	dB(A)
L _{WA} Surrounding	70	57	59	63	65	64	61	56	49	dB(A)



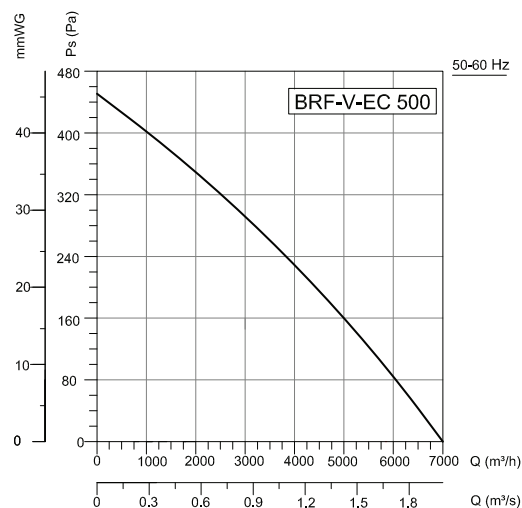
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	67	54	56	60	62	61	58	53	46	dB(A)
L _{WA} Surrounding	69	56	58	62	64	63	60	55	48	dB(A)



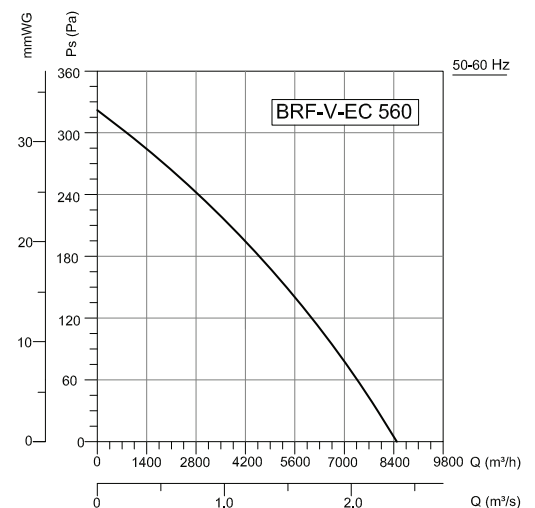
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	71	39	58	66	61	67	54	50	47	dB(A)
L _{WA} Surrounding	70	43	63	62	66	64	57	52	48	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	68	51	56	63	62	59	57	52	53	dB(A)
L _{WA} Surrounding	73	43	62	64	68	67	62	57	55	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	73	46	60	70	68	64	61	56	54	dB(A)
L _{WA} Surrounding	75	44	62	66	71	68	66	59	55	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L _{WA} Inlet	81	54	70	74	76	75	71	66	59	dB(A)
L _{WA} Surrounding	83	54	71	75	77	78	74	68	61	dB(A)



BRDV

VERTICAL OUTLET ROOF FANS

Fan Components and Material Properties

The models of BRDV series vertical centrifugal roof fans are manufactured from galvanized sheet steel. The models of BRDV 450-560 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

BRDV roof fans provide a great advantage in applications with vertical shot feature in conditions where horizontal air is not allowed to be absorbed. Thanks to the aerodynamic wing structure, they work quietly. Speed can be adjusted with speed control devices. Since the rainwater is easily evacuated, water ingress is prevented from

entering the chimney. Since the motor is out of airflow, it is resistant to high temperature. Due to its high temperature resistance, the hot oil vapor absorbed from the hoods ensures a long distance to the vertical.

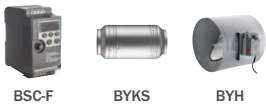
Speed Control

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

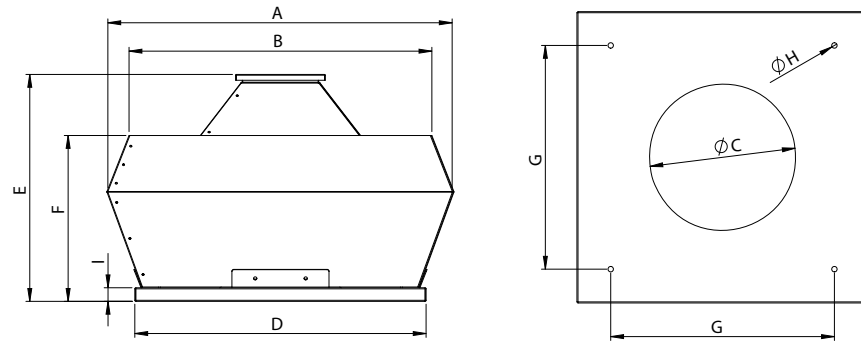
Usage Areas

In order to increase the air quality of indoor spaces, it is used in situations where vertical shot is required under conditions where air cannot be disposed horizontally. The BRF-V roof fans operate at low volume with an external rotor motor. It is used on the roofs of the places where the air is to be refreshed and the chimneys on the bathroom and wc roofs of the buildings which are opened to the common shaft.

Accessories



Technical Drawing and Tables

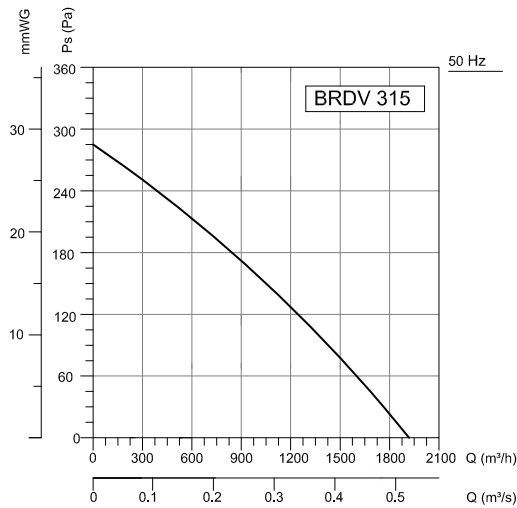


TYPE	A	B	C	D	E	F	G	H	I
BRDV 315	845	740	185	700	550	395	576	14	35
BRDV 355	845	740	235	700	550	395	576	14	35
BRDV 400	895	780	270	750	585	430	576	14	35
BRDV 450	960	855	282	800	595	440	625	14	35
BRDV 500	1030	915	320	850	695	490	675	14	35
BRDV 560	1195	960	360	950	820	610	740	14	35

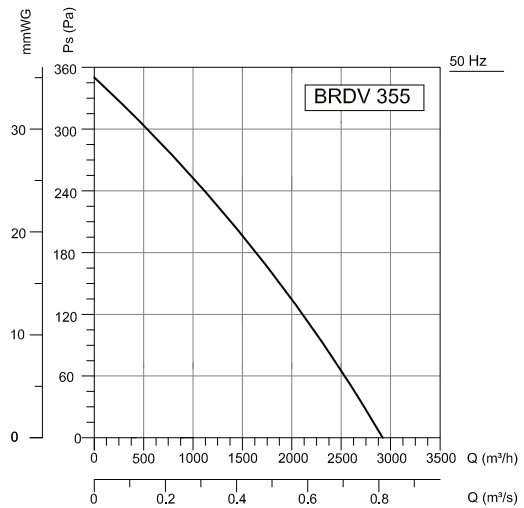
Dimensions are in (mm)

	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
BRDV 315M	230	50	0,25	2,1	10	1380	1900	48-40	F	55	22
BRDV 355M	230	50	0,25	2,1	10	1380	2850	50-42	F	55	27
BRDV 400M	230	50	0,37	3,4	15	1390	4000	51-43	F	55	33
BRDV 450M	230	50	0,55	4,5	20	1365	5300	54-46	F	55	38
BRDV 500M	230	50	1,1	7,5	35	1410	8000	56-48	F	55	49
BRDV 560M	230	50	2,2	14,2	50	1420	10500	65-57	F	55	58
BRDV 315T	380	50	0,25	0,87	-	1380	1900	48-40	F	55	22
BRDV 355T	380	50	0,25	0,87	-	1380	2850	50-42	F	55	27
BRDV 400T	380	50	0,37	1,2	-	1390	4000	51-43	F	55	33
BRDV 450T	380	50	0,55	1,6	-	1365	5300	54-46	F	55	38
BRDV 500T	380	50	1,1	2,6	-	1410	8000	56-48	F	55	49
BRDV 560T	380	50	2,2	4,9	-	1420	10500	65-57	F	55	58

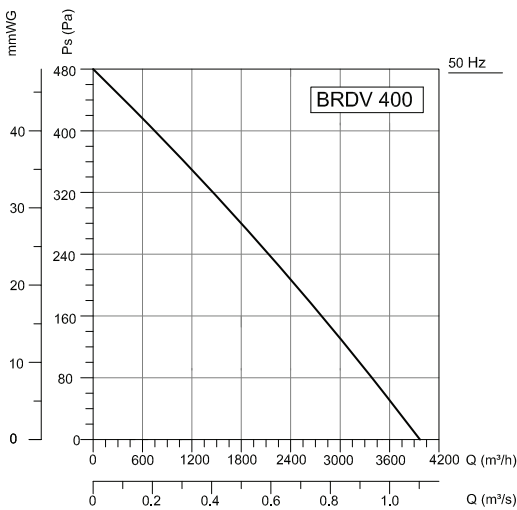
The sound level is measured at a distance of 4-10 m in open field condition.



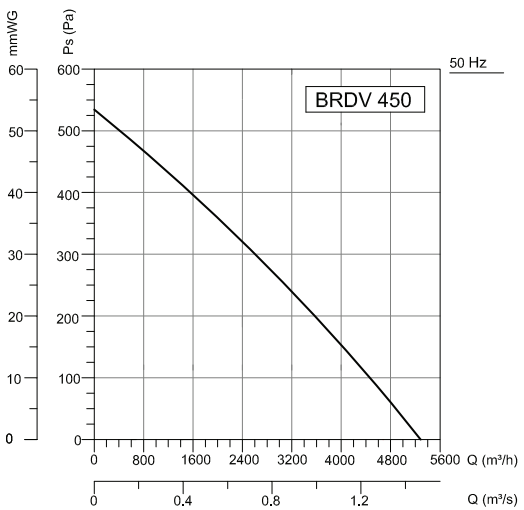
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	69	40	58	62	64	63	60	55	48	dB(A)
L_{WA} Surrounding	71	42	60	64	66	65	62	57	50	dB(A)



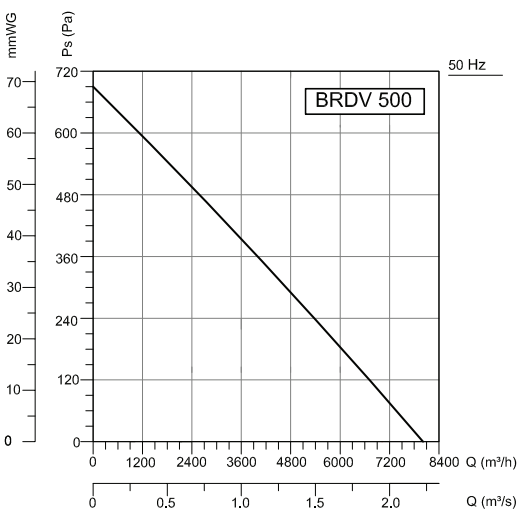
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	71	42	60	64	66	65	62	57	50	dB(A)
L_{WA} Surrounding	73	44	62	66	68	67	64	59	52	dB(A)



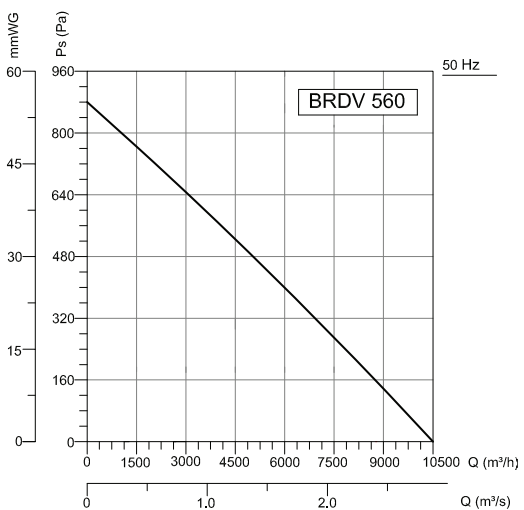
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	59	61	65	67	66	63	58	51	dB(A)
L_{WA} Surrounding	74	61	63	67	69	68	65	60	53	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	62	64	68	70	69	66	61	54	dB(A)
L_{WA} Surrounding	77	64	66	70	72	71	68	63	56	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	72	59	61	65	67	66	63	58	51	dB(A)
L_{WA} Surrounding	79	66	68	73	74	73	70	65	58	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	86	73	75	79	81	80	77	72	65	dB(A)
L_{WA} Surrounding	88	75	77	81	83	82	79	74	67	dB(A)



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