

MANUAL
AXIAL FANS FR



1. General information

Thank you for purchasing our product. It is required to read the following instructions for proper use of the device, all information must be followed carefully.

All users of the fan should have free access to manual, in case of its resale manual must be attached to the device.

2. Use

FR fans are used for wall mounting. They can be used in commercial and industrial places, they are also suitable for home usage e.g. shops, catering services, warehouses, workshop etc.

3. Transport and storage

Fans should be transported and kept in the original package. Store the fans in the original packing in a dry area, protected from the weather, and dirt until final installation.

4. Installation

It is essential to read the following instructions and proceed to the content recommendations. The installation should be carried out by the professional installers, who possess the qualifications to install, assemble and run these types of device.

Before any work, it is obligatory to cut off the current supply. Please check: insulation and winding resistance, ground resistance, bearing condition.

Please check, if the fan should not have been damaged during transport or storage (dent or casing distortions, interruption in junction box, the turbine should not touch the casing, the propeller should not touch the tunnel).

It is essential to check, if the technical data on the data plate comply with the requirements on the electrical system.

If the irregularities have not been identified, you can proceed with the installation:

- Prepare the proper electrical connections,
- Place the fan in the ventilation duct,
- Squeeze flexible ducts using duct clip and screwdriver,
- Tighten the screws,
- Connect the fan to the electrical system,

The connection must comply with the connection scheme.

5. Maintenance

Maintenance should be done once a year or more often, depending on the working conditions. Before any work, it is obligatory to cut off the current supply and secure against switching on.

In order to clean the fan please:

- Disassemble the fan,
- Clean all components with the damp cloth, with the greatest care not to wet the engine,
- Dry all components,
- Assemble the fan,
- Connect the fan to the power supply.

After the cleaning, the motor must be operated for 20 minutes at 80-100% of the max. rpm to let it dry out.

6. Safety information

- Fans are intended for transfer the air.
- Do not use the fan in hazardous environment, close to flammable materials or polluted environment.
- The temperature working range -25 to 60 degrees.
- After the turn off, the elements of fan may be warm.

Non proceeding to the included information may lead to health impairment or threat to life.

Terms of warranty

I. Supplier Reventon Group Sp. z o.o. [Ltd.] 3B Montażowa Street, 43-300 Bielsko-Biała, Poland shall provide 12 months guarantee.

II. Warranty is valid in the European Union.

III. The terms of warranty are valid from purchasing the device (the date issuing a document confirming the purchase of the device) but not further than 18 months from leaving the Reventon Group Sp. z o.o. warehouse.

IV. The defects revealed during the warranty period will be removed free of charge in 14 working days. The service will be done by the installation company due to the terms of included in warranty card. The elements will be supplied by the Reventon Group Sp. z o.o. during the warranty period.

V. Warranty does not cover the parts of the device subject to normal maintenance and the cases as below:

a) Mechanical defects, damages from the impact of the improper transportation or damages through improper storage.

b) Defects through:

- improper usage and service;

- using the device in the improper conditions (too high humidity, too high or too low temperature, impact of the surrounding, sun etc.);

- modified equipment that has been modified or repaired without written agreement of the supplier;

- connecting additional equipment, which is not recommended by the supplier or inconsistent with the technical documentation;

- improper power supply.

c) Elements which wear and tear such as discolor or using.

VI. All changes in record in the warranty terms or any constructive modifications, independent service outside the Reventon Group service or use, uncaring, makes the warranty not valid.

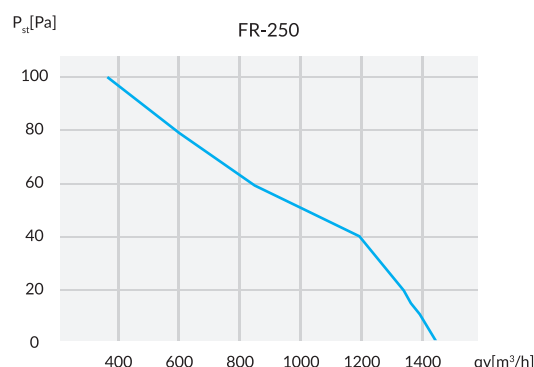
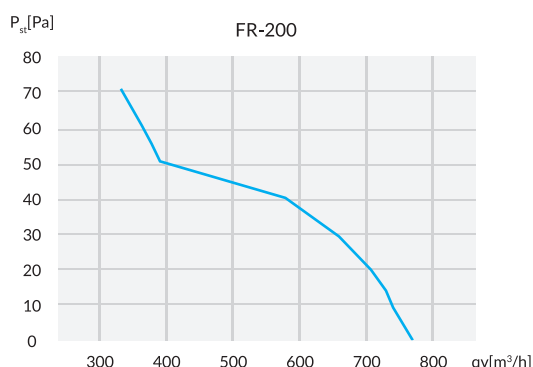
VII. To obtain the service it is needed to send to Reventon Group Sp. z o.o. warranty card with the signature, document confirming the purchase, (copy of the invoice) and correctly filled the warranty form.

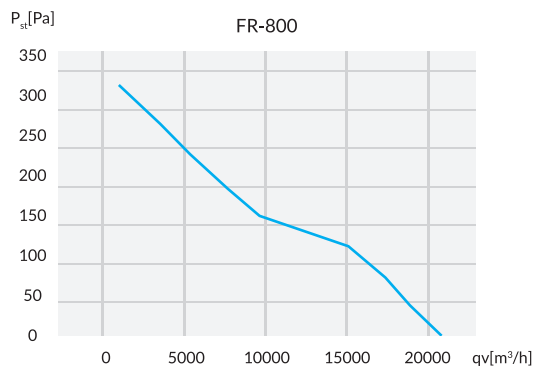
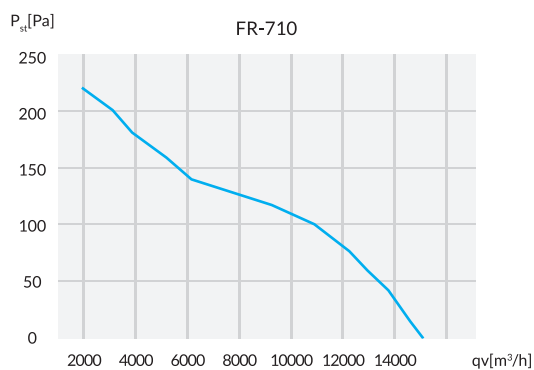
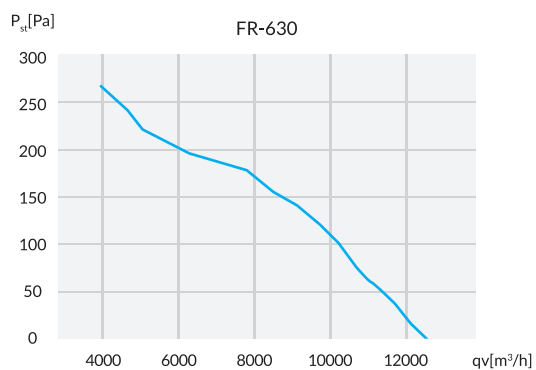
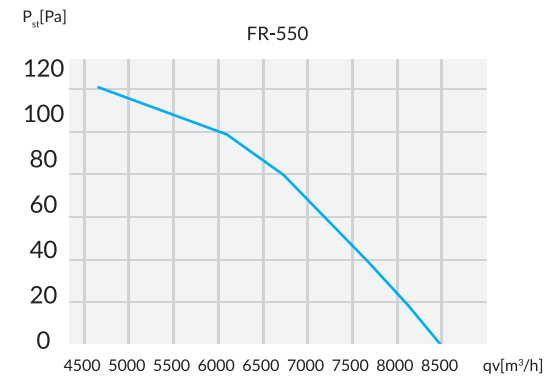
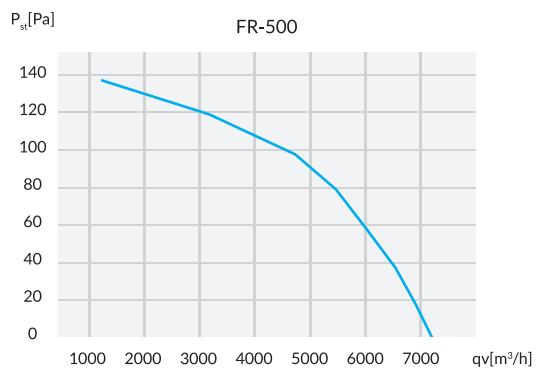
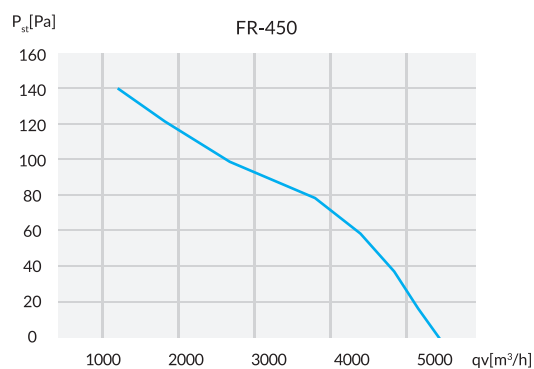
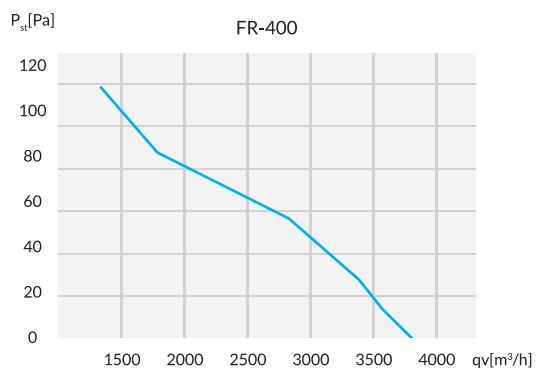
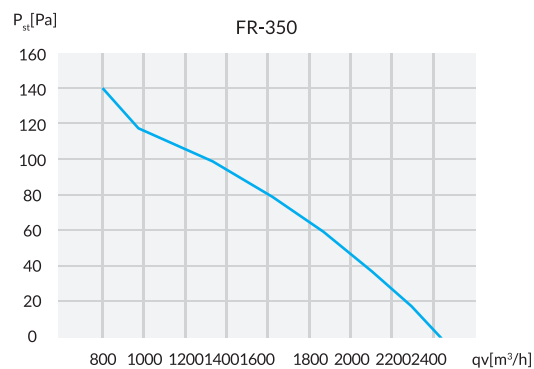
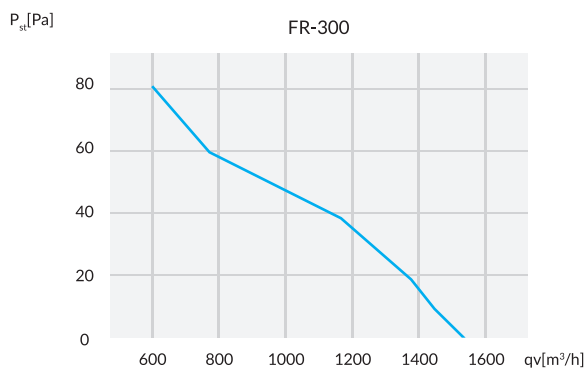
VIII. Not following to any of warranty regulations makes the warranty not valid.

IX. All correspondence, returns, complains should be send to the following address: Reventon Group Sp. z o.o. 3B Montażowa Street, 43-300 Bielsko-Biała, Poland or e-mail: serwis@reventongroup.eu

Reventon Group Sp. z o.o. reserves the rights to make changes to the technical documentation without previous notice.

Air flow curve





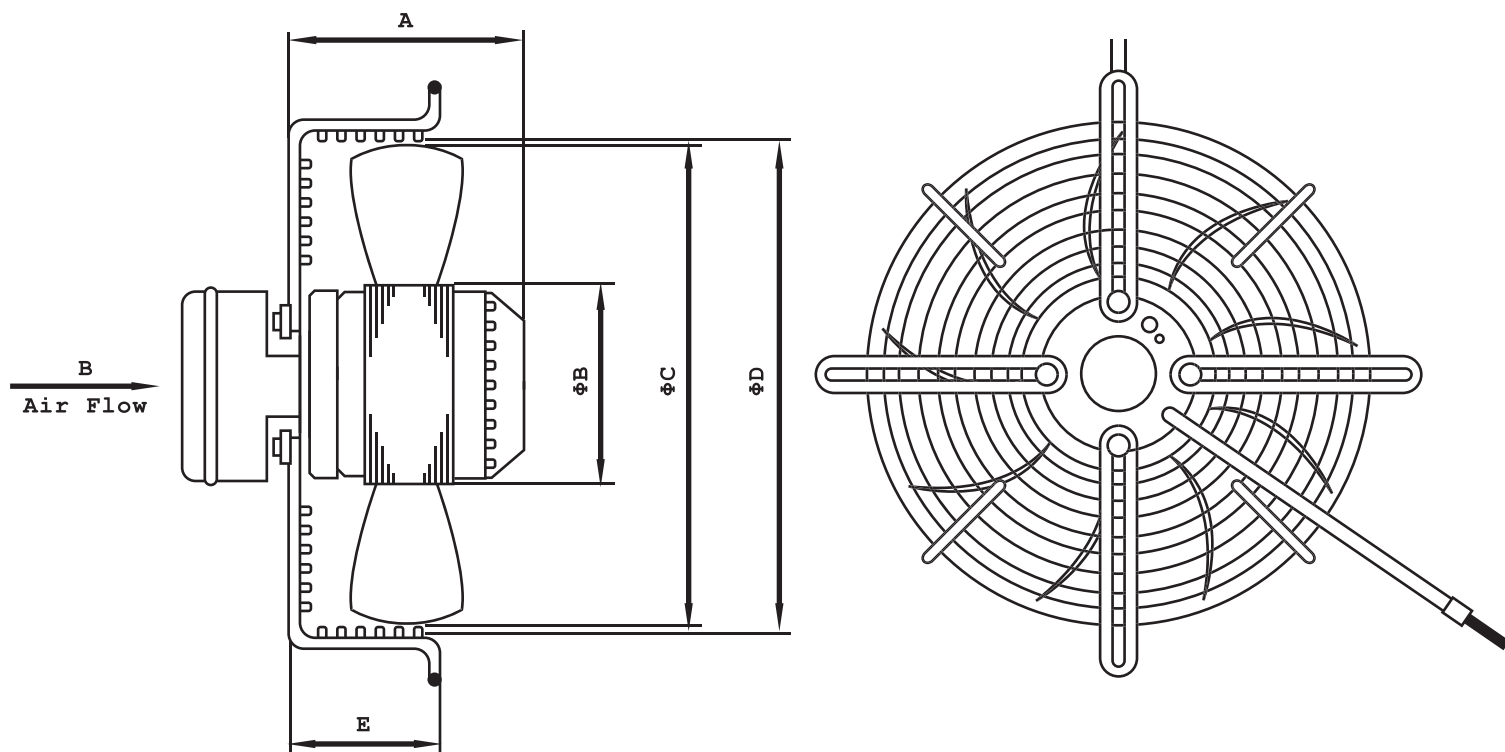
Technical data

Unit of measure		AXIAL FANS											
MODEL	FR	200	250	300	350	400	450	500	550	630		710	800
Voltage	V/Hz	230/50										400/50	
Input power	W	55	90	75	129	180	250	380	550	750		Δ 900	Δ 1200
												Y 650	Y 930
Rated current	A	0,25	0,42	0,4	0,65	0,82	1,15	1,75	2,55	3,5		Δ 1,9	Δ 2,85
												Y 1,15	Y 1,65
Air flow	m³/h	780	1450	1845	2450	3955	5365	7155	8510	11435		Δ15120	Δ 20695
												Y 13005	Y 17635
Speed	rev/min	2500	2400	1400	1400	1380	1350	1320	1300	1360		Δ 900	Δ 920
												Y 730	Y 770
Noise	dBA	52	60	60	64	67	69	71	72	75		Δ73	Δ 75
												Y 72	Y 74
Capacitor	μ F/VDB	2/450	3/450	3/450	4/450	6/450	8/450	10/450	12/450	16/450		-	-
Bearings	Ball bearings												
Insulation class	B											F	
Ambient temperature	°C	(-30) ~ (+ 60)											
Motor protection	°C	135 +/- 5										150+/-5	
Type		blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing	sucking/ blowing		sucking/ blowing	sucking/ blowing
Temperature increase	k	<75											
Weight	kg	2	2,5	3	5	6	8	9	11	15		30	35
Insulation class	IP	X4											

AXIAL FAN WITH PROTECTIVE GRID, BLOWING

Dimensions

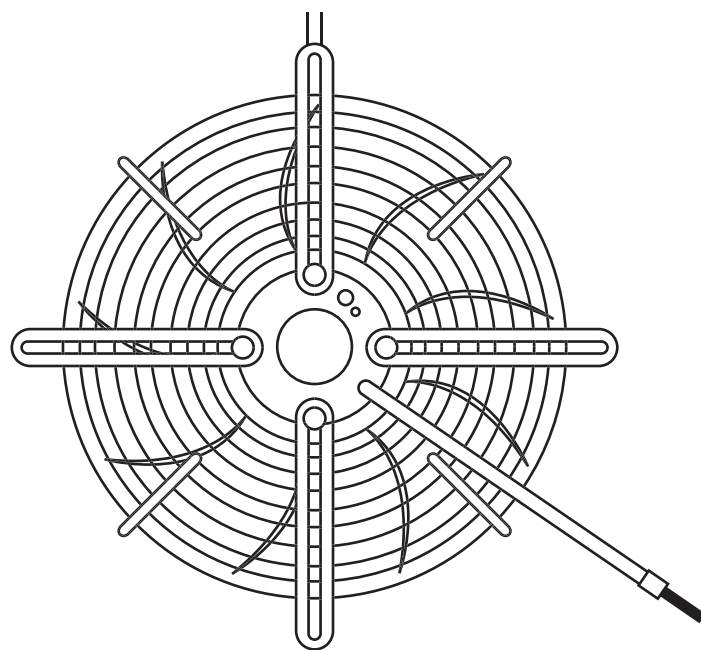
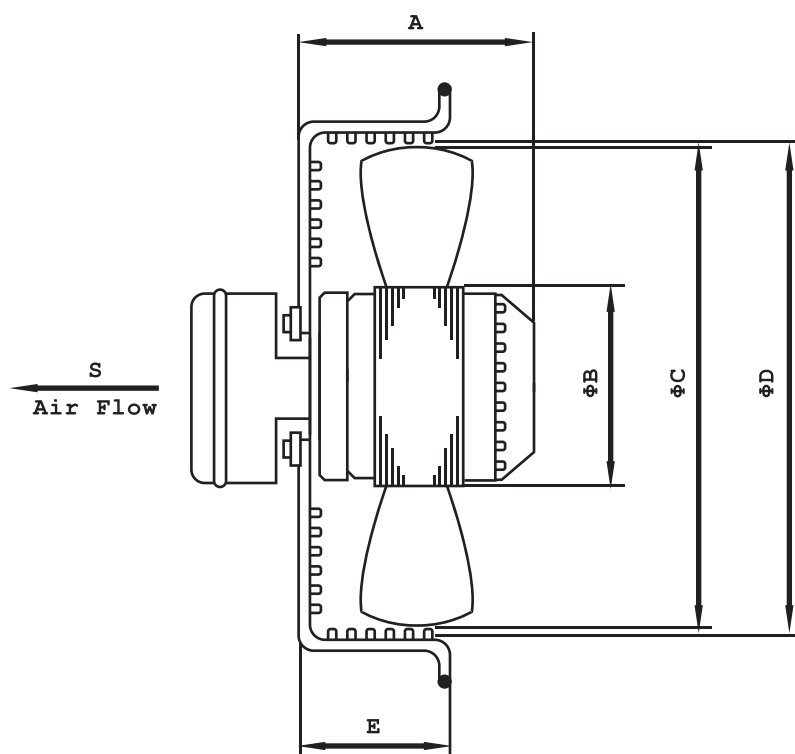
	A	ΦB	ΦC	ΦD	E
FR-250-BG	75,5±1	92	250 ⁰ ₋₅	275 ⁺⁵ ₀	60±1
FR-300-BG	88±2	92	300 ⁰ ₋₅	320 ⁺⁵ ₀	80 ⁺⁵ ₀
FR-350-BG	169±1	102	350 ⁰ ₋₅	370 ⁺⁵ ₀	80 ⁺⁵ ₀
FR-400-BG	117±1	102	400 ⁰ ₋₅	420 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-450-BG	192±1	102	450 ⁰ ₋₅	470 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-500-BG	124±1	137	500 ⁰ ₋₅	520 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-550-BG	139±1	137	550 ⁰ ₋₅	570 ⁺⁵ ₀	100 ⁺⁵ ₀
FR-630-BG	159±1	137	630 ⁰ ₋₅	650 ⁺⁵ ₀	100 ⁺⁵ ₀
FR-710-BG	240±1	180	703 ⁰ ₋₅	770 ⁺⁵ ₀	120 ⁺⁵ ₀
FR-800-BG	240±1	180	784 ⁰ ₋₅	857 ⁺⁵ ₀	120 ⁺⁵ ₀



AXIAL FAN WITH PROTECTIVE GRID, SUCKING

Dimensions

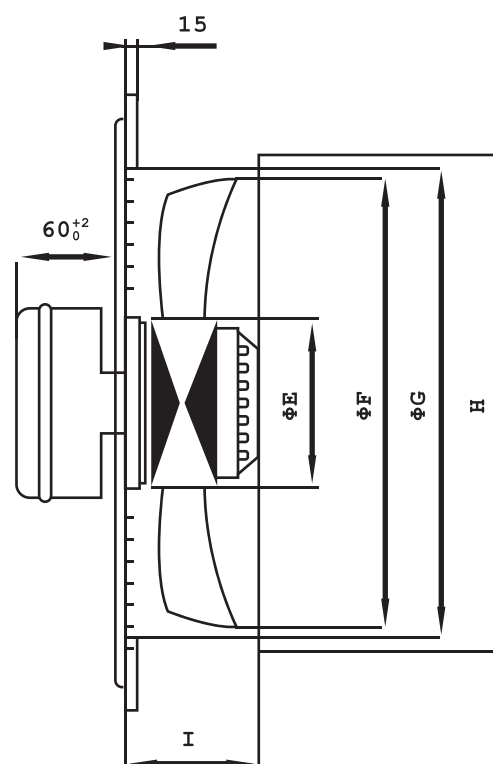
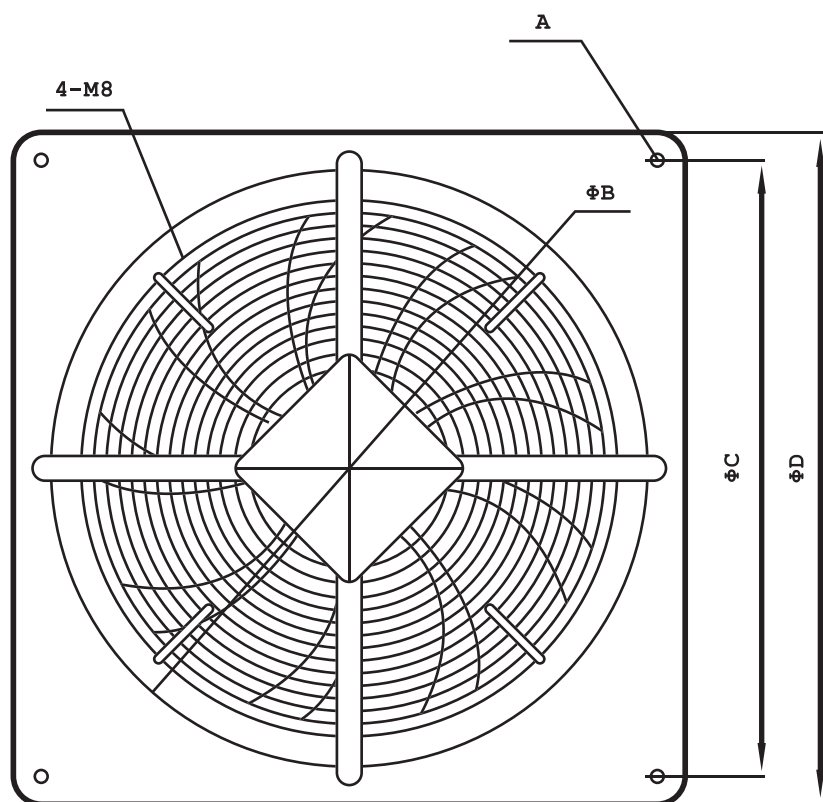
	A	ΦB	ΦC	ΦD	E
FR-250-SG	75,5±1	92	250 ⁰ ₋₅	275 ⁺⁵ ₀	60±1
FR-300-SG	88±2	92	300 ⁰ ₋₅	320 ⁺⁵ ₀	80 ⁺⁵ ₀
FR-350-SG	169±1	102	350 ⁰ ₋₅	370 ⁺⁵ ₀	80 ⁺⁵ ₀
FR-400-SG	117±1	102	400 ⁰ ₋₅	420 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-450-SG	192±1	102	450 ⁰ ₋₅	470 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-500-SG	124±1	137	500 ⁰ ₋₅	520 ⁺⁵ ₀	90 ⁺⁵ ₀
FR-550-SG	139±1	137	550 ⁰ ₋₅	570 ⁺⁵ ₀	100 ⁺⁵ ₀
FR-630-SG	159±1	137	630 ⁰ ₋₅	650 ⁺⁵ ₀	100 ⁺⁵ ₀
FR-710-SG	240±1	180	703 ⁰ ₋₅	770 ⁺⁵ ₀	120 ⁺⁵ ₀
FR-800-SG	240±1	180	784 ⁰ ₋₅	857 ⁺⁵ ₀	120 ⁺⁵ ₀



AXIAL FAN WITH SQUARE FRAME

Dimensions

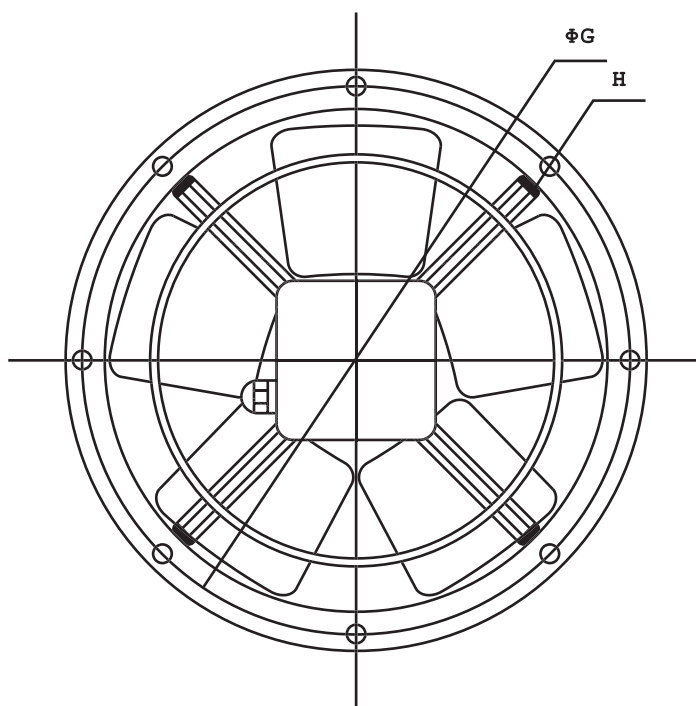
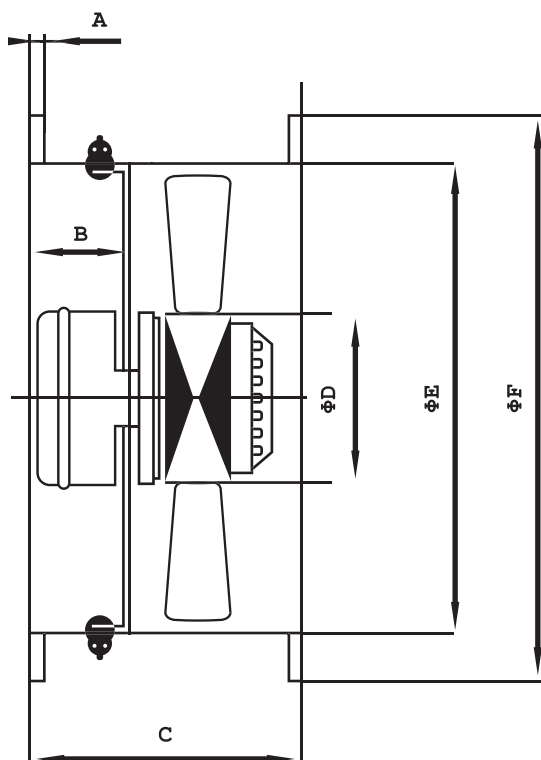
	A	ΦB	ΦC	ΦD	ΦE	ΦF	ΦG	ΦH	I
FR-200-BS	4xΦ7 ⁰ _{-0,2}	260	260	310	92	200 ⁰ ₋₅	203	210	90
FR-250-BS	4xΦ7 ⁰ _{-0,2}	320	320	370	92	250 ⁰ ₋₅	260	280	90
FR-300-BS	4xΦ7 ⁰ _{-0,2}	380	380	430	92	300 ⁰ ₋₅	315	335	90
FR-350-BS	4xΦ10 ⁰ _{-0,2}	415	435	485	102	350 ⁰ ₋₅	360	380	90
FR-400-BS	4xΦ10 ⁰ _{-0,2}	470	490	540	102	400 ⁰ ₋₅	410	430	110
FR-450-BS	4xΦ10 ⁰ _{-0,2}	520	535	575	102	450 ⁰ ₋₅	460	480	110
FR-500-BS	4xΦ10 ⁰ _{-0,2}	580	612	655	137	500 ⁰ ₋₅	510	530	115
FR-550-BS	4xΦ10 ⁰ _{-0,2}	650	670	725	137	550 ⁰ ₋₅	565	585	115
FR-630-BS	4xΦ10 ⁰ _{-0,2}	730	750	805	137	630 ⁰ ₋₅	640	660	125



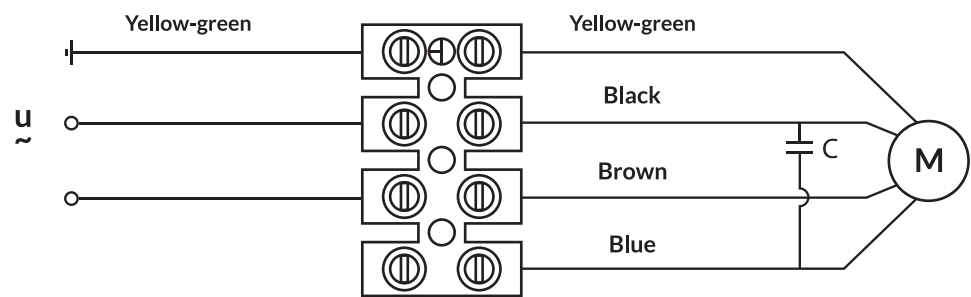
AXIAL DUCT FAN

Dimensions

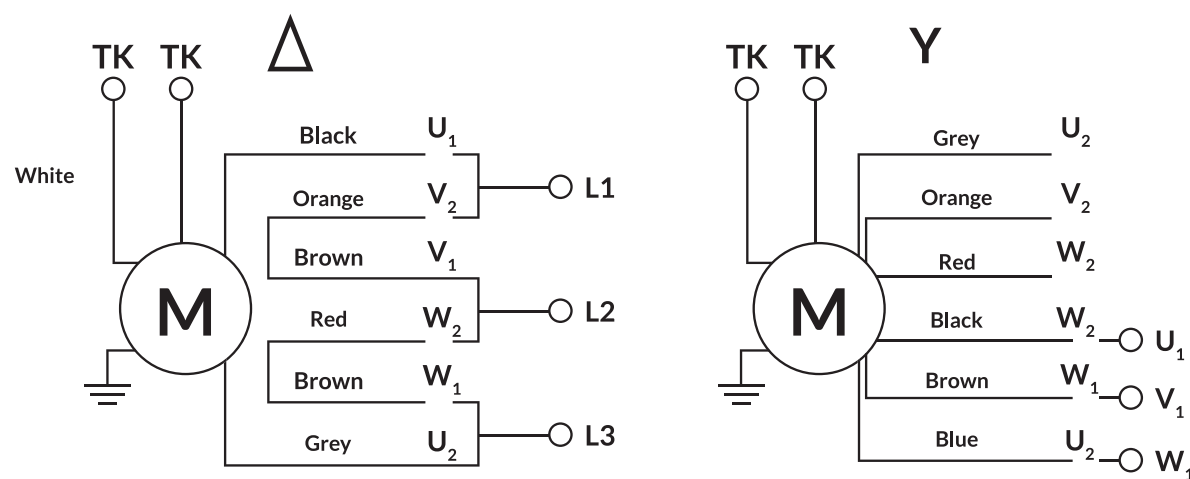
	A	B	C	ΦD	ΦE	ΦF	ΦG	ΦH
FR-200-BC	8	60_0^{+2}	180	92	200_{-5}^0	250	222,5	8-Φ7
FR-250-BC	8	60_0^{+2}	180	92	250_0^{+2}	306	285	8-Φ7
FR-300-BC	8	60_0^{+2}	180	92	315	382	360	8-Φ7
FR-350-BC	8	60_0^{+2}	180	102	350	350	421	8-Φ9,5
FR-400-BC	8	60_0^{+2}	190	102	400	400	466	12-Φ9,5
FR-450-BC	9	60_0^{+2}	190	102	450	450	489,5	12-Φ9,5
FR-500-BC	9	60	250	137	500	500	567	12-Φ9,5
FR-550-BC	9	60	250	137	560	635	606	12-Φ10
FR-630-BC	9	60	250	137	630	705	675,5	12-Φ10



Single-phase



Three-phase



Warranty card

Factory number of the device:	Address and place of assembly
Stamp and signature of the installation company:	

Warranty form

The company reporting the complaint:	Date of assembly:	Address and place of assembly the device:
	Date and circumstances of noticing the defect:	
The company installing the device:		
Factory number of the device:	Date of declaration the complaint:	
Description of the defect:		
Contact Name and Surname, telephone number/ e-mail address:		

Service card

Date of declaration the complaint	Description of the repair	Service stamp
Date of repair		

Reventon Group [Ltd.] 3B Montazowa Street, 43-300 Bielsko-Biała, Poland

WWW.REVENTONGROUP.EU

BIURO@REVENTONGROUP.EU

+48 33 482 74 97

+48 793 40 40 40