



CATALOGUE 2018





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The group's main products include domestic fans, single-room ventilation units, heat recovery units, industrial fans and air handling units, parts and accessories for customized system configurations as well as bespoke ventilation solutions. Due to our product diversity, we do our best to meet the individual needs of our clients in various countries with the best combination of price and quality.

blauberg-motoren.com









Blauberg Motoren was born in Munich, Germany, like own direction of fans and motors manufacturing and integral part of Blauberg Group.

Starting with manufacturing AC motors with external rotors for own needs, for now Blauberg Motoren produce wide range of motors and fans with EC and AC technology for clients all around the world. It includes axial fans, backward curved fans, forward curved fans, blowers.

We are proud to be presented in products of our clients — world famous manufactures of ventilation, heat, home appliance and other equipment, and be part of their success.

For now Blauberg Motoren have R&D (research and development) center in Munich (Germany), as well as main testing laboratories for products and factories in Germany (Munich), Ukraine (Kiev) and Poland.

Every day we are working with our passion and respect to technology and engineering to make our products better – more responsive to needs and expectations of our clients.

With traditional German quality, we are focused on developing and improving best one and newest technology – in our own manufacturing and in our products.

WE ARE CLIENT-ORIENTED COMPANY AND TRY TO BE BEST ONE FOR OUR CLIENTS IN SEGMENTS WE ARE PRESENT.

Zentri-PAC 230V | **2018**



FAN MOTORS

THE MOTORS ARE POWERED BY DIRECT OR ALTERNATING CURRENT.

- A direct current motor is powered by a direct power supply.
- An alternating current motor is powered by an alternating power supply.

Alternating current motors are the most widely used motors because the basic electric grid in the country has alternating power supply.

ALTERNATING CURRENT MOTORS HAVE TWO TYPES:

- Synchronous electric motors are alternating current motors with a rotor that rotates synchronously with a magnetic field;
- Asynchronous electric motors are alternating current motors with the magnetic field frequency exceeding the motor rotation speed.

Asynchronous motors

Nowadays the asynchronous electric motors find wide application.

Asynchronous electric motors consist of two basic components, the stator and the rotor.

The stator is a fixed motor component. On the inner side the stator has some slots for laying of three-phase cable winding that is powered by three-phase current. The rotor is a rotating part of the motor and also has slots for inserting the cable winding. The rotor and the stator are assembled of separate 0.35-0.5 mm thick electrotechnical steel pressed plates.

Separate plates are insulated from each other with a varnish layer. The air gap between the stator and the rotor is kept as low as possible: 0.3-0.35 mm for low capacity machinery and 1.0-1.5 for more powerful machinery.

Depending on the rotor design the asynchronous motors are available in short circuit modification and phased modifications. Short circuit motors are the most widely used motors because of their simple design and easy operation. The threephase stator winding is inserted inside the slots and consists of a number of interconnected coils. Each coil consists of one or several turns which are insulated against each other and against the slot walls.

THE ASYNCHRONOUS ELECTRIC MOTOR WITH SHORT CIRCUIT ROTOR HAS THE FOLLOWING ADVANTAGES:

- Permanent speed at various loads.
- Resistance to short-term mechanical overloads.
- Easy structure.
- Easy start-up.
- o Higher $\cos \phi$ and efficiency compared to electric motors with phased rotor.

The design of the asynchronous electricmotor with external rotor is similar to that of the standard asynchronous electric motor.

The only difference is the position of the rotor. The electric rotor motor is located inside the stator winding and the stator with turns is located in the electric motor center. This configuration provides a compact size of the ventilation unit. The electric motor shaft is carried by ball bearings fixed inside the stator and the impeller is fixed in the rotor casing. Such a design provides air cooling of the electric motor which makes it applicable for a wide temperature range. The electric motors are assembled with the impellers and are subjected to static and dynamic balancing in compliance with DIN ISO 1940. The motors have an integrated overheating protection with automatic restart.

All the motors have 100 % controllable speed range. Speed control is performed with a transformer or electronic devices. Explosionproof motors are controlled exclusively by transformers within 25% up to 100% of the rated voltage range. Speed control is performed by voltage change whereas the frequency in the grid remains the same. The electric motor speed is smoothly decreased as power voltage drops or is increased as power voltage rises. The motor can also be controlled with a frequency converter.

ADVANTAGES OF THE ASYNCHRONOUS ELECTRIC MOTOR WITH EXTERNAL ROTOR:

- Long service life.
- Light weight and small overall dimensions.
- Easy assembly and installation.
- Aligned impeller and electric motor.
- Regulated air capacity.
- Low energy demand during start-up.





EC motors

The electric motor with high-efficient EC motor is a synchronous direct current motor driven by an electronic commutating unit (controller). It has no friction and wearing parts as a collector or brushes, unlike the standard motor. The function of these parts is performed with the maintenance-free electronic circuit of the EC controller.

The EC technology is the state-of-the-art method for arrangement of energy saving and high efficient ventilation.

The energy demand of EC motors is by 50% less as compared to standard motors and efficiency reaches 90%.

These new electric motors are featured with high performance, low noise level and controllable total speed range. The electronic EC-controller enables some other smart functions, e.g. fan control according to measured temperature, pressure and other parameters.

A unique software ensures high control accuracy for fans integrated into a single network. Parameters of a single fan integrated into a common network may be centrally corrected to match the ventilation system parameters. All the system parameters are displayed online on a computer. This enables programming individual operation modes of each fan in the system. This technology enables also programming custommade settings to meet individual customer requirements.



ADVANTAGES OF EC MOTORS:

- Efficient performance at any rotation speed of the fan, including very low speed.
- o Low heat emission.
- Small overall dimensions of the unit due to external rotor design.
- Maximum fan rotation speed does not depend on frequency in the grid.
- The fan is suitable for connection both to 50 Hz and 60 Hz power mains.
- High efficiency at low rotation speed.
- Energy demand is by 1/3 less as compared to standard motors.
- Data interchange between PC and fan for parameter setting and control.
- Integration of all fans into a unified system and their centralized control.

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ZENTRI-PAC SERIES

The new line of Zentri-PAC fans embodies the philosophy of Blauberg Motoren:

"To keep pace with the time we have to outperform and overachieve, we have to push to the forefront of science and technology, follow global trends and embark on a never-ending quest for innovation".

Responding to the popular demand and customer feedback we have created a special series of centrifugal fans which feature backward-curved blades and benefit from improved impeller design and reliable high-performance EC motors.

The new series includes the most popular fan models, which comply with all modern aerodynamic and energy efficiency requirements with the impeller diameter ranging from 133 mm to 250 mm.

The impeller is made of a composite high-tech plastic material with fibreglass reinforcement elements for higher rigidity and stress resistance.



Specially profiled blades are the result of extensive CAD design and long hours of wind tunnel testing help reduce airflow losses and improve the aerodynamic characteristics of fans.

Smooth and uniform airflow spread reduces operating noise.

6





Plug Fan casing series

For further improvement of the ease and convenience of fan installation Blauberg Motoren has come up with the latest solution, which enables using Zentri-PAC fans with Plug Fan type casings produced in-house.

PLUG FAN SYSTEM HAS A RANGE OF IMMEDIATE ADVANTAGES:

- o Retaining an optimum air flow
- o Compact footprint and space-saving design
- o Convenient and simple installation
- Use and replacement of individual unit components as necessary for reduced maintenance costs
- o Installation at any angle







ZENTRI-PAC SERIES FANS COME WITH A HOST OF BENEFITS:

- New series of EC motors for high performance and low power consumption
- o Compact footprint and easy retrofitting
- o High efficiency (up to 95%)
- Control over the entire speed range for optimum performance
- Improved aerodynamic and acoustic performance thanks to the updated impellers
- Plug Fan casing system compatibility

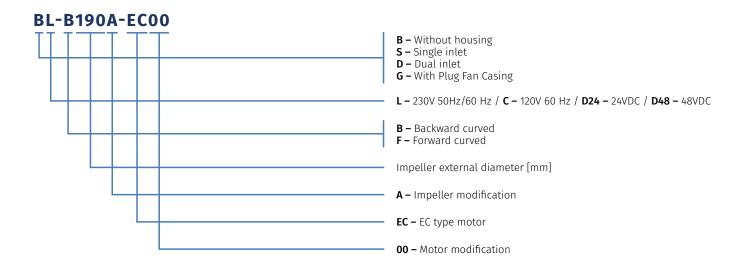
The well-proven series of our AC fans compatible with Plug Fan casings has also received the new impellers for improved performance.

Zentri-PAC 230V | 2018 7

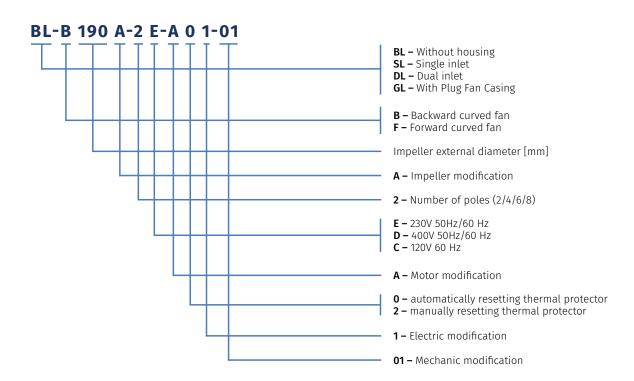


TYPE KEY

EC fans



AC fans



blauberg-motoren.com



Φ 133 10
EC CENTRIFUGAL
FANS
Φ 190 14
Φ 220 22
Φ 250 22

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Ø 133 мм, BACKWARD CURVED

EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring – sheet steel

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





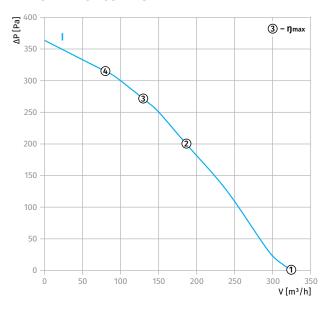






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B133A-EC-00	I	230	50/60	4240	42	0.36	71	-25 +60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	1[A]
	1	4200	39	0.33
	2	4150	42	0.35
1	3	4240	40	0.34
	4	4200	34	0.3



Ø 133 мм, BACKWARD CURVED

EC CENTRIFUGAL FAN

Overal Dimmensions

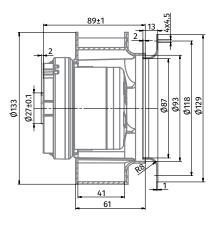


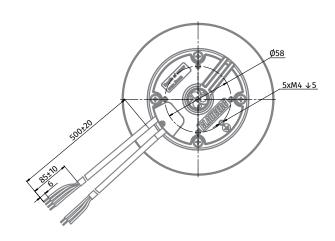
Centrifugal Fan	Weight [kg]
BL-B133A-EC-00	1



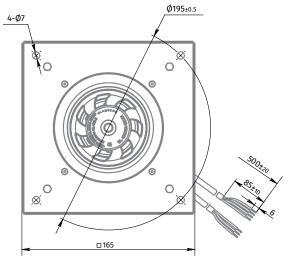
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B133A-EC-00	1.4

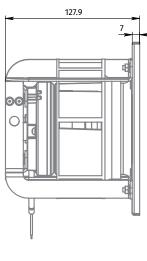
BL-B133A-EC-00

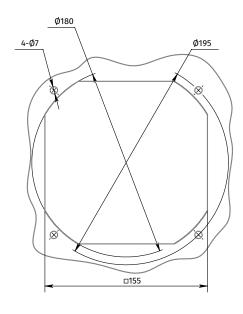




GL-B133A-EC-00







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\emptyset 175 мм, BACKWARD CURVED

EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





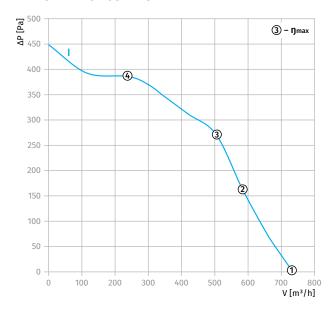






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B175A-EC-00	1	230	50/60	3540	74	0.62	72	-25 + 60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	I[A]
	1	3650	61	0.51
	2	3555	72	0.60
1	3	3540	74	0.61
	4	3555	70	0.58

EC CENTRIFUGAL FAN

Overal Dimmensions

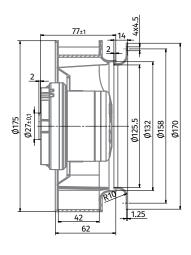


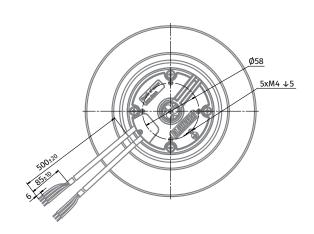
Centrifugal Fan	Weight [kg]
BL-B175A-EC-00	1.1



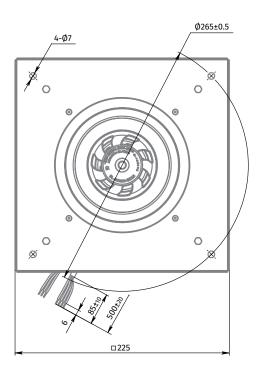
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B175A-EC-00	1.65

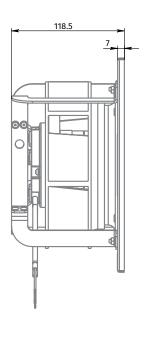
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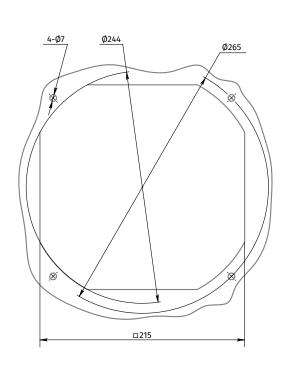




GL-B175A-EC-00







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\emptyset 190 мм, BACKWARD CURVED

EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





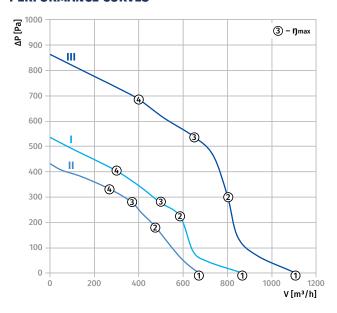






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B190B-EC-00	I	230	50/60	3300	87	0.65	72	-25 + 60	Type "E"/p. 39	p.38
*L-B190B-EC-01	II	230	50/60	2940	64	0.53	71	-25 + 60	Type "E"/p. 39	p.38
*L-B190B-EC-03	III	230	50/60	4260	176	1.30	72	-25 + 60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	I [A]
	1	3200	81	0.60
1	2	3310	86	0.65
1	3	3300	87	0.65
	4	3300	85	0.64
	1	3020	58	0.49
	2	2960	64	0.53
II	3	2940	64	0.53
	4	2990	63	0.50
	1	4350	155	1.20
	2	4285	170	1.30
III	3	4260	176	1.30
	4	4295	169	1.30

EC CENTRIFUGAL FAN

Overal Dimmensions

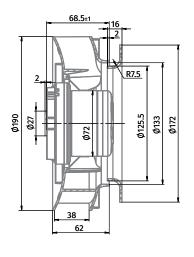


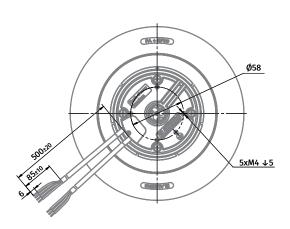
Centrifugal Fan	Weight [kg]
BL-B190B-EC-00	1.1
BL-B190B-EC-01	1.1
BL-B190B-EC-03	1.65



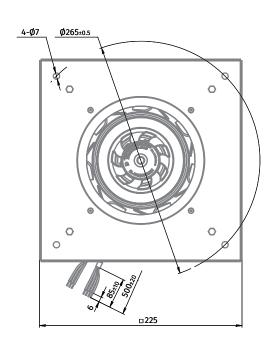
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B190B-EC-00	1.75
GL-B190B-EC-01	1.75
GL-B190B-EC-03	2.3

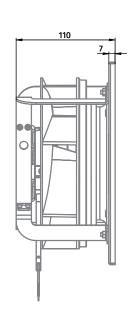
BL-B190B-EC-00, BL-B190B-EC-01

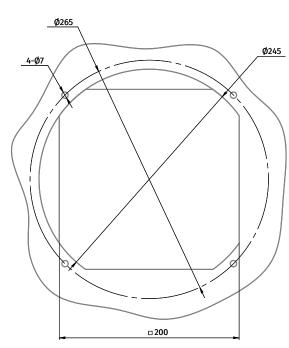




GL-B190B-EC-00, GL-B190B-EC-01







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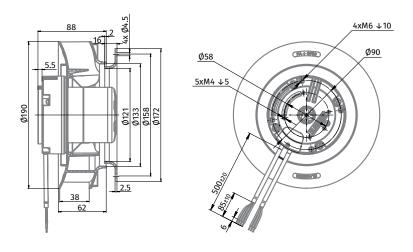
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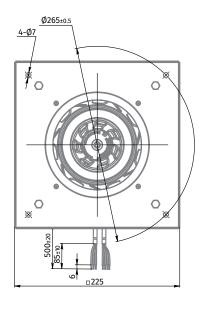
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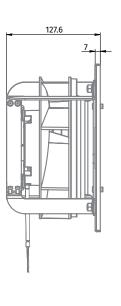
EC CENTRIFUGAL FAN

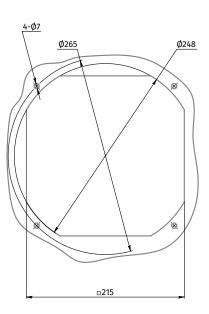
BL-B190B-EC-03



GL-B190B-EC-03









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EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





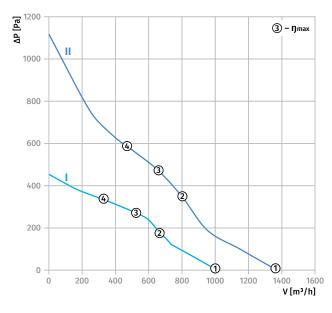






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B220C-EC-00	I	230	50/60	2470	86	0.71	70	-25 + 60	Type "E"/p. 39	p.38
*L-B220C-EC-01	II	230	50/60	2250	168	1.27	72	−25 + 60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	I [A]
	1	2600	79	0.65
	2	2450	86	0.71
I	3	2470	84	0.69
	4	2520	78	0.65
	1	2500	168	1.27
II	2	2290	168	1.27
	3	2250	168	1.27
	4	3400	168	1.27

EC CENTRIFUGAL FAN

Overal Dimmensions

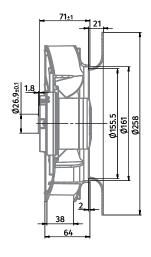


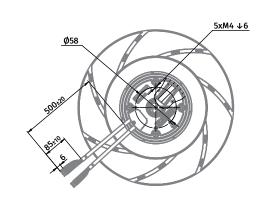
Centrifugal Fan	Weight [kg]
BL-B220C-EC-00	1.15
BL-B220C-EC-01	1.7



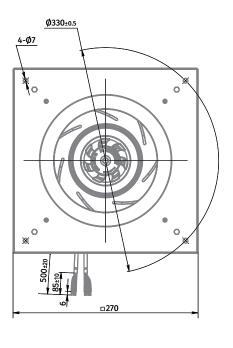
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B220C-EC-00	2
GL-B220C-EC-01	2.55

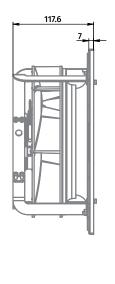
BL-B220C-EC-00

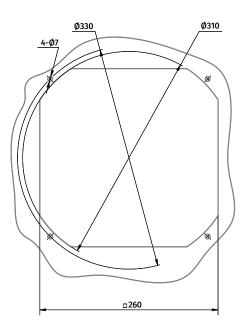




GL-B220C-EC-00







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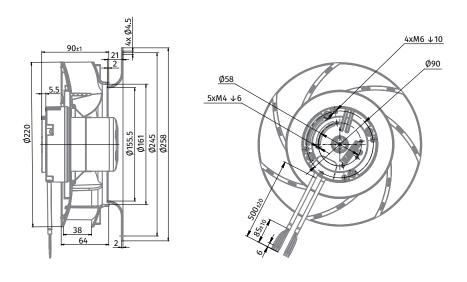
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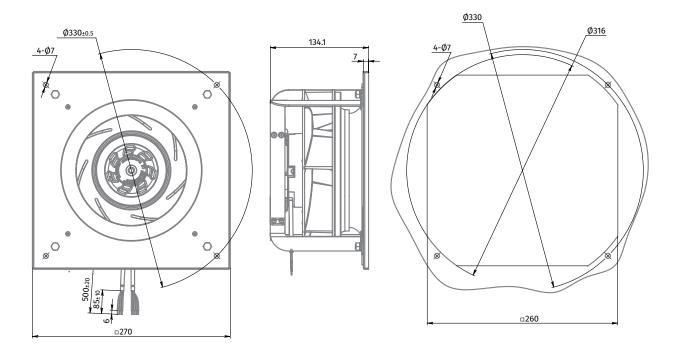
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EC CENTRIFUGAL FAN

BL-B220C-EC-01



GL-B220C-EC-01





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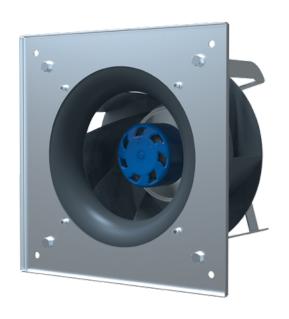
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EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





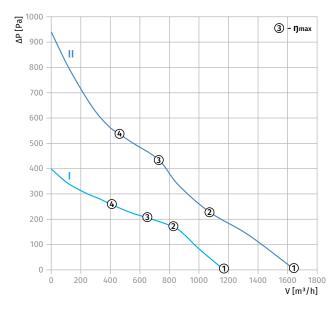






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B225D-EC-00	I	230	50/60	2140	85	0.68	62	-25 + 60	Type "E"/p. 39	p.38
*L-B225D-EC-01	II	230	50/60	2950	168	1.26	72	−25 + 60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	I [A]
	1	2320	75	0.62
	2	2200	80	0.64
I	3	2140	83	0.67
	4	2110	85	0.68
	1	2000	160	1.00
	1	3200	168	1.26
II	2	2970	168	1.25
	3	2950	168	1.25
	4	3050	168	1.25

EC CENTRIFUGAL FAN

Overal Dimmensions

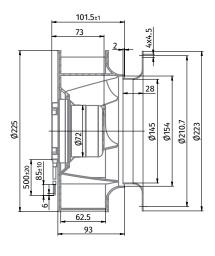


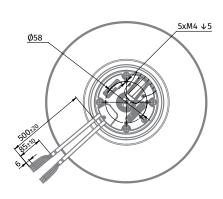
Centrifugal Fan	Weight [kg]
BL-B225D-EC-00	1.3
BL-B225D-EC-01	1.83



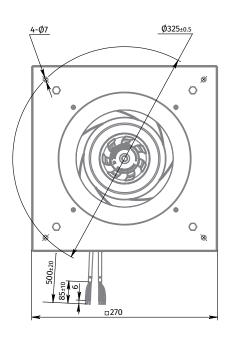
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B225D-EC-00	2.21
GL-B225D-EC-01	2.74

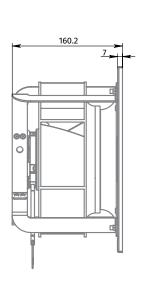
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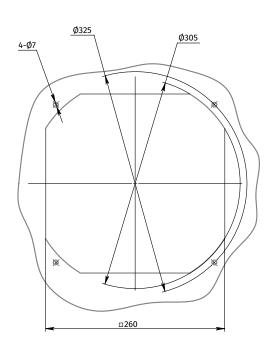




GL-B225D-EC-00







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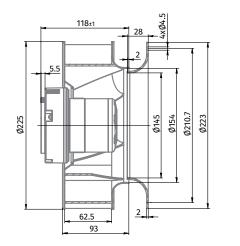
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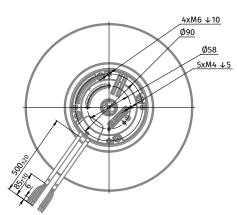
0 22

0 25

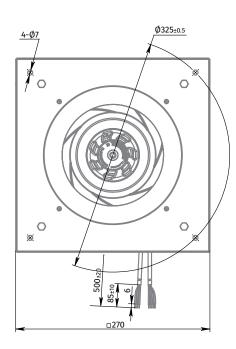
EC CENTRIFUGAL FAN

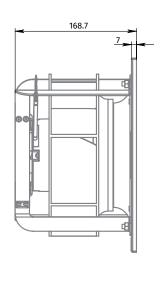
BL-B225D-EC-01

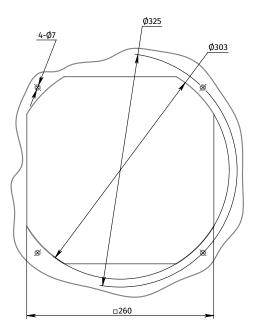




GL-B225D-EC-01









Ø 133

Ø 175

Ø 190

Ø 220

Ø 225

Ø 250

Ø 190

Ø 220

Ø 225

Ø 250

Zentri-PAC 230V | **2018**



\emptyset 250 мм, BACKWARD CURVED

EC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring – PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP55 o Insulation class: B o Mode of operation: S1

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally





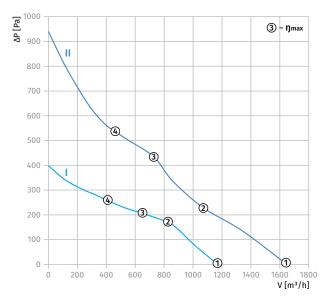






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Electrical connection	Inlet ring
*L-B250B-EC-00	I	230	50/60	1810	85	0.68	72	-25 + 60	Type "E"/p. 39	p.38
*L-B250B-EC-01	II	230	50/60	2570	169	1.27	73	−25 + 60	Type "E"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	1 [A]
	1	1990	75	0.61
	2	1900	80	0.65
I	3	1810	85	0.68
	4	1810	81	0.66
	1	2750	169	1.27
II	2	2580	169	1.26
	3	2570	168	1.26
	4	2700	168	1.26

EC CENTRIFUGAL FAN

Overal Dimmensions

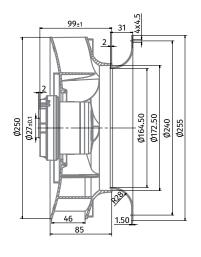


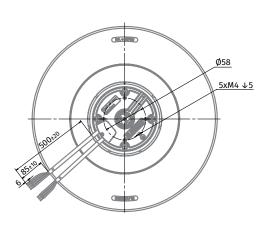
Centrifugal Fan	Weight [kg]
BL-B250B-EC-00	1.3
BL-B250B-EC-01	1.85



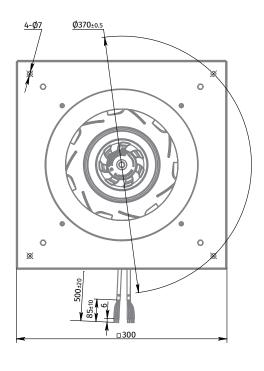
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B250B-EC-00	2.37
GL-B250B-EC-01	2.92

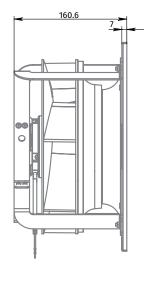
BL-B250B-EC-00

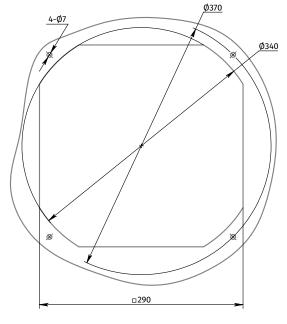




GL-B250B-EC-00







Ø 133

0 175

0 190

Ø 220

6777

Ø 250

Ø 190

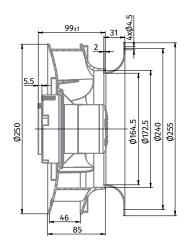
0220

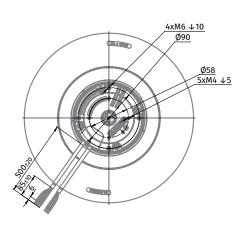
0 22

\emptyset 250 мм, BACKWARD CURVED

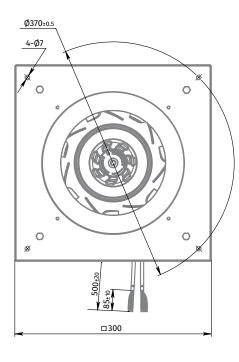
EC CENTRIFUGAL FAN

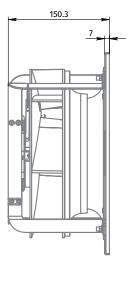
BL-B250B-EC-01

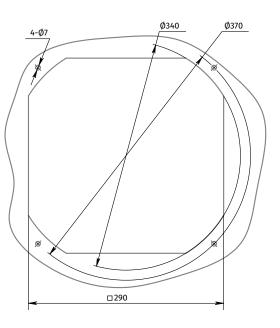




GL-B250B-EC-01









AC CENTRIFUGAL FANS

Ø 190 30

Ø 220 32

Ø 225 34

Ø 250 36

Zentri-PAC 230V | **2018**

AC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP44 o Insulation class: B

o Mode of operation: continuous operation (S1)

o Bearing: ball bearings

o Motor protection: self-resetting TOP wired internally









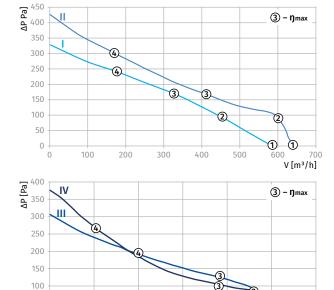


Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor / Capacitor voltage [µF] / [VDB]	Electrical connection	Inlet ring
₩ B100A 2F A01 01	I	230	50	2425	65	0.30	62	-25 + 50	1.5/450	Type "A"/p. 39	p.38
*L-B190A-2E-A01-01	II	230	60	2530	80	0.35	64	-25 + 50	1.5/450	Type "A"/p. 39	p.38
*L-B190A-2E-A02-01	III	230	50	2180	63	0.30	58	-25 + 50	1.0/450	Type "A"/p. 39	p.38
"L-DIYUA-ZE-AUZ-UI	IV	230	60	2150	72	0.35	60	-25 +50	1.0/450	Type "A"/p. 39	p.38

 $V [m^3/h]$

PERFORMANCE CURVES



Curve	Point	n [RPM]	Pi[W]	I [A]
	1	2560	60	0.27
ı	2	2500	62	0.28
Ī	3	2425	65	0.29
	4	2500	62	0.28
	1	2735	76	0.33
п	2	2630	78	0.34
II	3	2530	80	0.35
	4	2750	74	0.32
	1	2400	59	0.30
III	2	2270	59	0.29
""	3	2180	62	0.30
	4	2240	60	0.29
	1	2380	68	0.30
IV	2	2200	71	0.30
IV	3	2150	71	0.30
	4	2520	62	0.28

50

AC CENTRIFUGAL FAN

Overal Dimmensions

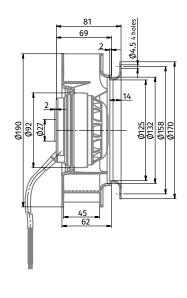


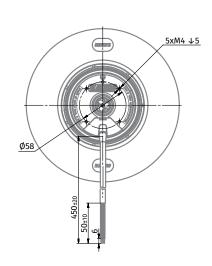
Centrifugal Fan	Weight [kg]
BL-B190A-2E-A01-01	1.41
BL-B190A-2E-A02-01	1.41



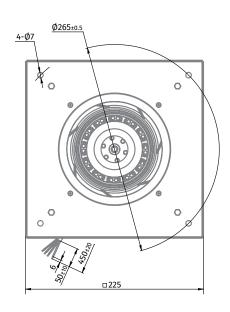
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B190A-2E-A01-01	2.06
GL-B190A-2E-A02-01	2.06

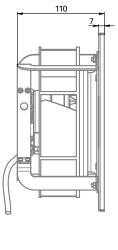
BL-B190A-2E-A01-01, BL-B190A-2E-A02-01

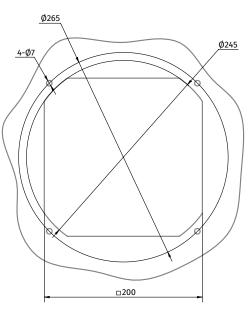




GL-B190A-2E-A01-01, GL-B190A-2E-A02-01







Ø 133

0 175

Ø 190

Ø 220

0 225

0 250

Ø 190

07.7.0

0 225

AC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring - PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

Type of protection: IP44 Insulation class:

Mode of operation: continuous operation (S1)

Bearing: ball bearings

Motor protection: self-resetting TOP wired internally







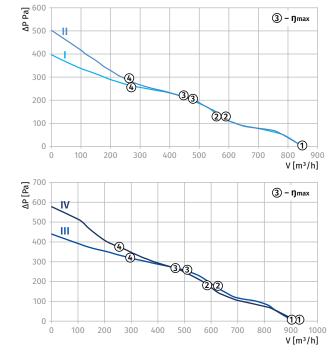




Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor / Capacitor voltage [µF] / [VDB]	Electrical connection	Inlet ring
*L-B220B-2E-A01-01	I	230	50	2110	94	0.42	69	-25 + 50	2/450	Type "A"/p. 39	p.38
^L-B22UB-ZE-AU1-U1	II	230	60	2110	108	0.47	70	-25 + 50	2/450	Type "A"/p. 39	p.38
*L-B220B-2E-B01-01	III	230	50	2360	106	0.47	70	-25 + 50	2/450	Type "A"/p. 39	p.38
~L-DZZUD-ZE-BUI-UI	IV	230	60	2352	130	0.57	71	-25 +50	2/450	Type "A"/p. 39	p.38

3 - ŋmax



Curve	Point	n [RPM]	Pi [W]	I [A]
	1	2250	90	0.40
	2	2000	94	0.42
1	3	2110	93	0.41
	4	2210	90	0.40
	1	2300	104	0.44
	2	2040	108	0.47
II	3	2110	106	0.47
	4	2290	102	0.45
	1	2510	98	0.43
	2	2270	106	0.47
III	3	2360	102	0.46
	4	2410	95	0.43
	1	2505	123	0.53
D.	2	2280	129	0.57
IV	3	2352	126	0.56
	4	2616	116	0.51

AC CENTRIFUGAL FAN

Overal Dimmensions

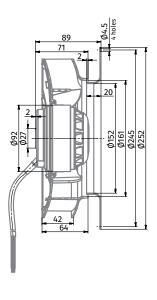


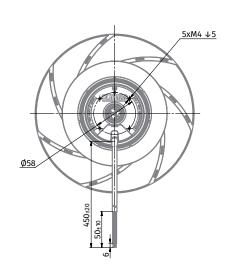
Centrifugal Fan	Weight [kg]
BL-B220B-2E-A01-01	1.28
BL-B220B-2E-B01-01	1.28



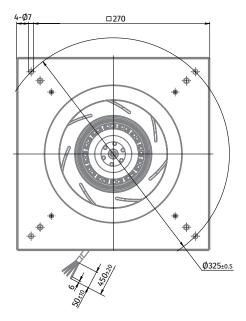
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B220B-2E-A01-01	2.13
GL-B220B-2E-B01-01	2.13

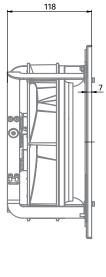
BL-B220B-2E-A01-01, BL-B220B-2E-B01-01

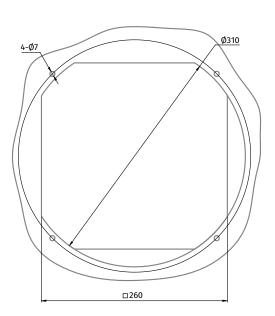




GL-B220B-2E-A01-01, GL-B220B-2E-B01-01







W 133

0175

Ø 190

Ø 220

0 225

0 .75C

0 19

Ø 220

0 225



AC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30

Inlet ring – PA6+GF30

Housing – galvanized steel

o Direction of rotation: clockwise, seen on rotor

Type of protection: IP44
Insulation class: B

Mode of operation: continuous operation (S1)

o Bearing: ball bearings

• Motor protection: self-resetting TOP wired internally



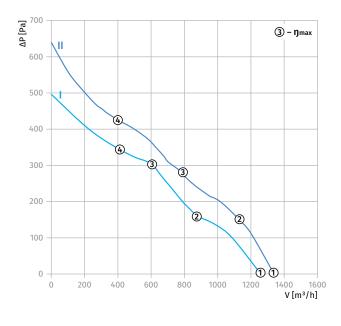






Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor / Capacitor voltage [µF] / [VDB]	Electrical connection	Inlet ring
*L-B225B-2E-C01-01	I	230	50	2480	129	0.57	69	-25 + 50	4,0/450	Type "A"/p. 39	p.38
^L-B225B-ZE-G01-01	II	230	60	2600	182	0.80	71	-25 + 50	4,0/450	Type "A"/p. 39	p.38



Curve	Point	n [RPM]	Pi [W]	I [A]
	1	2580	119	0.52
	2	2570	118	0.52
I	3	2480	128	0.56
	4	2530	121	0.53
	1	2805	170	0.74
II	2	2730	172	0.77
	3	2600	182	0.80
	4	2740	173	0.76

AC CENTRIFUGAL FAN

Overal Dimmensions

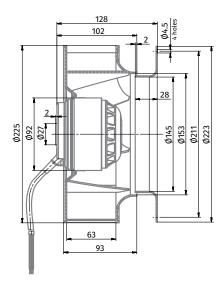


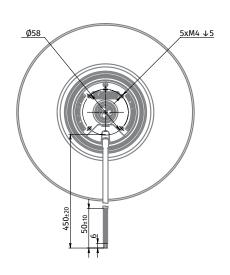
Centrifugal Fan	Weight [kg]
BL-B225B-2E-C01-01	2.34



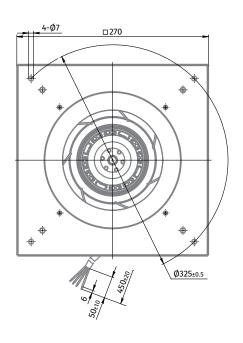
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B225B-2E-C01-01	3.25

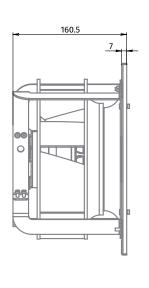
BL-B225B-2E-C01-01

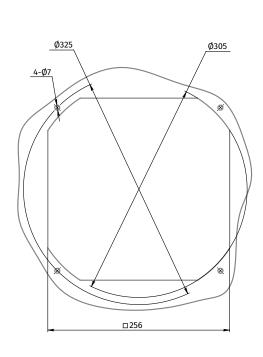




GL-B225B-2E-C01-01







Ø 133

0 175

Ø 190

Ø 220

0 225

0 250

Ø 190

0 22

Ø 225

AC CENTRIFUGAL FAN



Features

o Materials: Impeller - PA6+GF30+galvanized

steel

Inlet ring- PA6+GF30

Housing - sheet steel, painted grey

o Direction of rotation: clockwise, seen on rotor

o Type of protection: IP44 o Insulation class: B

Mode of operation: continuous operation (S1)

o Bearing: ball bearings

Motor protection: self-resetting TOP wired internally



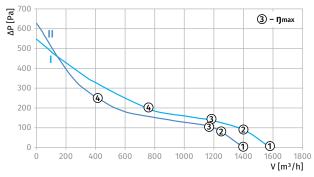


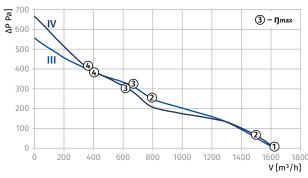




Technical data

Model	Perform. curve	Nominal voltage [VAC]	Frequency [Hz]	Speed [RPM]	Power input max [W]	Current max [A]	Sound pres. level [dB(A)]	Perm. amb. temp. [°C]	Capacitor / Capacitor voltage [µF] / [VDB]	Electrical connection	Inlet ring
*L-B250A-2E-C01-01	I	230	50	2244	188	0.83	70	-25 + 50	3.0/450	Type "A"/p. 39	p.38
^L-B25UA-ZE-GUI-UI	II	230	60	1980	212	0.93	69	-25 +50	3.0/450	Type "A"/p. 39	p.38
*L-B250A-2E-D01-01	III	230	50	2230	195	0.85	72	-25 + 50	4.0/450	Type "A"/p. 39	p.38
"L-DZJUA-ZE-DUI-UI	IV	230	60	2170	241	1.05	70	-25 +50	4.0/450	Type "A"/p. 39	p.38





Curve	Point	n [RPM]	Pi [W]	1[A]
	1	2450	168	0.72
1	2	2360	166	0.73
1	3	2244	168	0.74
	4	1940	185	0.81
	1	2280	180	0.85
II	2	2200	200	0.87
II	3	1980	208	0.91
	4	1880	208	0.92
	1	2240	165	0.72
III	2	2120	194	0.85
111	3	2230	183	0.8
	4	2200	167	0.73
	1	2570	212	0.98
IV/	2	2400	229	1.00
IV	3	2170	233	1.02
	4	2410	223	0.97

AC CENTRIFUGAL FAN

Overal Dimmensions

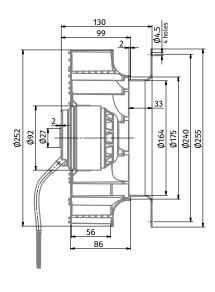


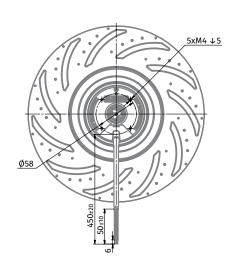
Centrifugal Fan	Weight [kg]
BL-B250A-2E-C01-01	2.58
BL-B250A-2E-D01-01	2.88



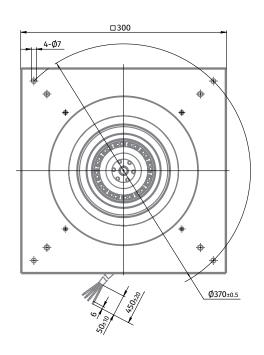
Centrifugal Fan with Plug Fan Casing	Weight [kg]
GL-B250A-2E-C01-01	3.65
GL-B250A-2E-D01-01	3.95

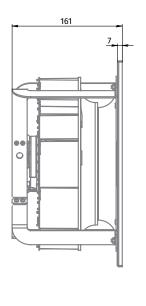
BL-B250A-2E-C01-01, BL-B250A-2E-D01-01

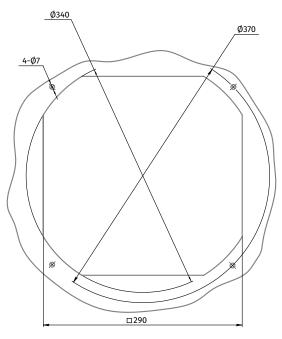




GL-B250A-2E-C01-01, GL-B250A-2E-D01-01







Ø 133

0 175

Ø 190

Ø 220

0 225

0 250

Ø 190

0220

0 22



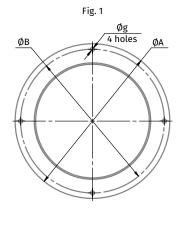
INLET RINGS

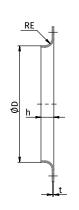
Inlet rings IR-PA series

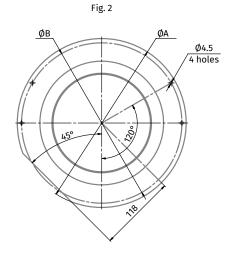
- For backward curved blade impellers
- Made of high quality plastic

OVERAL DIMMENSIONS [MM]

BLAUBERG Inlet ring	BLABERG Impeller size	Α	В	С	D	RE	h	t	g	Fig.
IR 190BC PA	190	172	158	120.5	125.5	10	15.9	2.5	4.5	1
IR 220BC PA	220	258	245	149	153	20	21	2.0	4.5	2
IR 225BC PA	225	223	210.7	141	145	25	28	2.0	4.5	1
IR 250BC PA	250	255	240	160	164	28	31	2.0	4.5	1





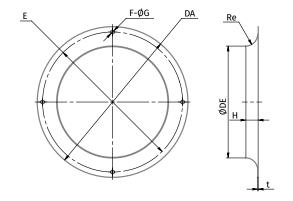


Inlet rings IR-GS series

- For backward curved blade impellers
- Made of galvanized steel

OVERAL DIMMENSIONS [MM]

BLAUBERG Inlet ring	BLABERG Impeller size	DA	E	DE	Re	F-ØG	h	t
IR 190BC GS	190	170	158	125	10	4-ø4.5	14	0.6
IR 220BC GS	220	252	236	152	22	4-ø4.5	21	0.6
IR 225BC GS	225	223	210.7	145	21	4-ø4.5	28	1.5
IR 250BC GS	250	255	240	164	18	4-ø4.5	33	1.5

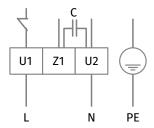




ELECTRICAL CONNECTION DIAGRAM

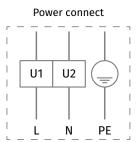
Type "A"

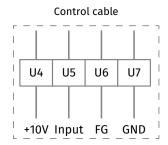
- o U1 Blue
- o U2 Black
- o Z1 Brown
- PE Green/Yellow



Type "E"

- o U1 Brown
- o U2 Blue
- PE Green/Yellow
- o U4 Red
- o U5 Yellow
- U6 White
- o U7 Blue







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