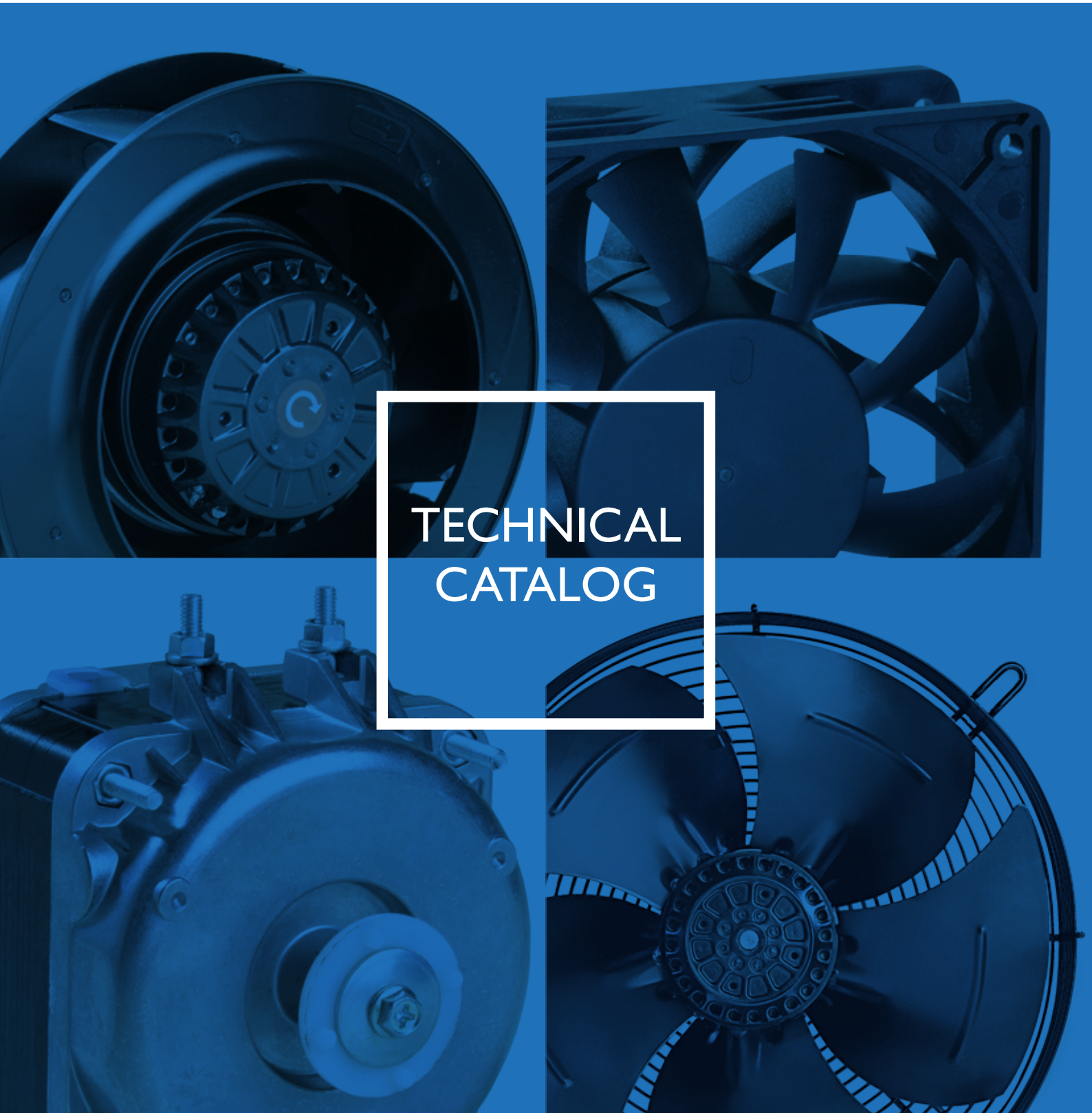
HICOOL™

Air Moving Products



TECHNICAL CATALOG

250k sq ft.
PRODUCTION AREA

15million
MOTORS/YEAR

200+
POINT OF SALES

EXPORT TO
20+
COUNTRIES

1000+
CUSTOMERS

Numbers are for FY 2024 and are subject to change

Performance with Purpose

Great Place To Work. Certified MAR 2024–MAR 2025 INDIA

Founded in 1988, Hicool is a leading manufacturer of motors, fans and blowers serving diverse markets and covering the entire scope of air moving technology and thermal solutions.

Our highly skilled team are driven every single day to create tailor-made solutions for complex applications in different industries. Our engineers are passionate about working very closely with our customers to meet their exact requirements in the most cost-effective way.

By having full control of our process chain, we are able to deliver unrivalled quality products with superior lifespans and reliability.

Hicool products enhance operational efficiency, save energy and improve customer product and equipment lifetime by providing the desired amount of temperature control.

With three state of the art manufacturing facilities and a yearly capacity of over 15 million motors we are able to cater to the rising demand of climate and temperature control products.

Do contact us for tailor-made solutions for your needs.

Contents

Selecting The Right Fan

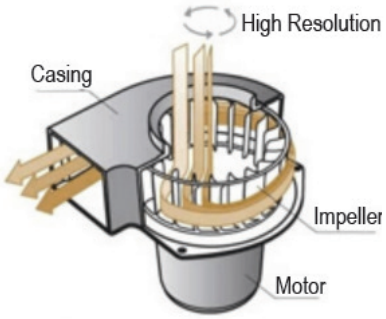
In recent years, the importance of cooling technology has become even greater due to an increase in heat emitted by equipment in line with a transition to high functionality and high speed. Therefore, selection of a right cooling fan for the application have become even more critical.

Based on the application, below parameters need to be determined for the right selection of the fan:

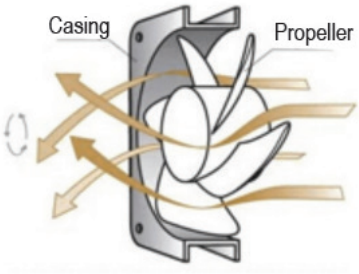
Fan Type | **Airflow** | **Static Pressure** | **Atmospheric Condition** | **Ingress Protection**

Fan Type

Fans are generally categorized by the way the air enters and leaves the fan; if it exits in the same plane as it enters it is normally termed an axial fan, as to draw air in from one side and expel it from the other. If the airflow leaves in a different plane it is normally referred to as a centrifugal design, as the air drawn in changes direction inside the fan and is expelled in a different direction. Axial fans are predominantly suitable for high airflow in systems with low static pressure, while centrifugal fans offer lower airflow against higher static pressure.



Centrifugal Blower



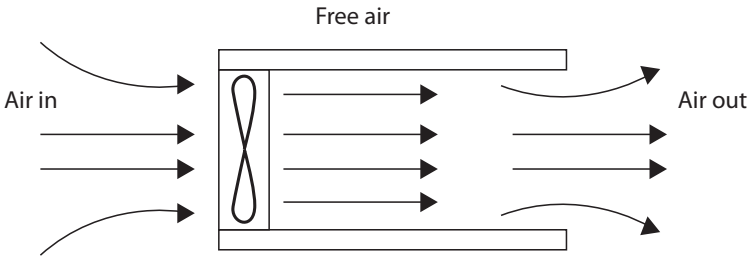
Axial Fan

Airflow

Once the fan type is known, the volume of air exchanged must be determined. Airflow is rated in cubic feet of air per minute (CFM) or in metric equivalent, it is rated in cubic meters per hour (M^3/hr).

1 CFM = 1.699 M^3/hr

Lower airflow will affect the cooling of equipment; therefore, it is always recommended to select a fan with airflow that is slightly higher than required.

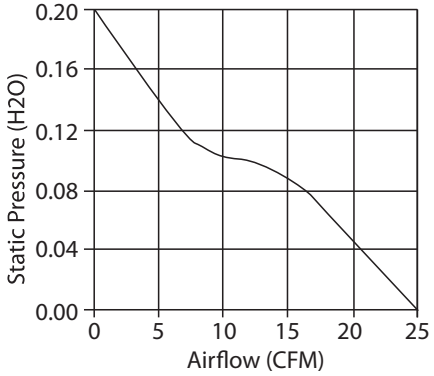


Static Pressure

An accurate measurement of static pressure is critical for proper fan selection. Static Pressure is the resistance to airflow (friction) caused by the air moving through a pipe, duct, hose, filter etc. Static Pressure is rated in inches water gauge (inWG) or the metric equivalent, millimeters water gauge (mmWG).

1 inWG = 25.4 mmWG.

The airflow given in our catalogue is at free air i.e. at 0 static pressure. Please ask for Airflow vs Static Pressure Chart before selecting a Fan.



Atmospheric Condition

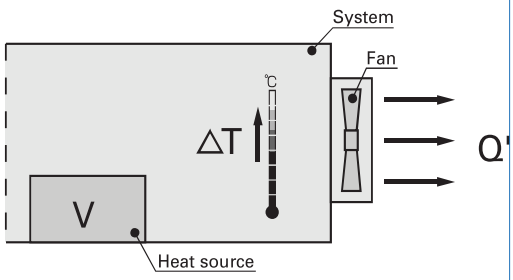
Apart from the above parameters while selecting a fan also consider the Atmospheric Condition near the fan. A fan should be operated within the operating temperature range given in the spec sheet. Fan should be selected based on the application (i.e. whether outdoor or indoor, dusty atmosphere etc). For dusty atmosphere it is always recommended to go for a fan with at least IP 44 protection and for outdoor application where the fan is exposed to the environment higher IP rating is required.

GUIDELINE FOR SELECTING A FAN

How to select the correct fan?

1. Determine your system specifications & condition:

Determine the rise in temperature inside the system and obtain the total value of heat based on its input & output.
Example:
V – Total value of heat in your system = 200 W
ΔT – Temperature rise inside your system = 15 K



2. Airflow calculation for cooling your system :

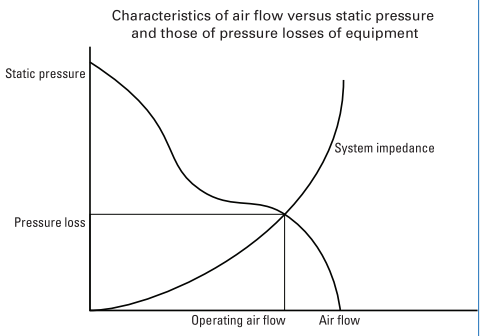
Once the system specifications & conditions are determined, calculate the required airflow to cool the system using below mentioned formula.
Example :
Q'- Motion airflow (m3/min)
Q' = V/ (20 x ΔT) i.e 200/ (20 x 15) = 0.66 m3/min.

Note : The formula shown above only applies when the heat radiation is performed only by cooling air from the fan.

3. Fan selection:

The Cooling Fan is selected based on the value obtained by calculating the motion airflow (Q').

-Note that, the motion airflow when the Cooling Fan is mounted in your system can be obtained using the airflow Vs static pressure characteristic curve and system impedance.
- As the system impedance cannot be measured without a measuring instrument, so fan with 1.5 to 2 times higher airflow than the actual maximum airflow should be selected.
(Note: operating airflow is one third to two third of maximum airflow)
-The fan selected should we such that, it should satisfy the airflow requirement along with the available space within your system.



4. Finalize the selected fan :

Calculate the temperature rise inside your system when your system is having 100 W of total heating value is forcefully cooled by the fan selected by you.

Example :
Q'= Q x 2/3 =0.66 x 2/3 = 0.44 m3/min
ΔT = V/(20 xQ') = 200/ (20 x 0.44) = 22.72 K

Therefore, the temperature rise in your system is 22.72 K.

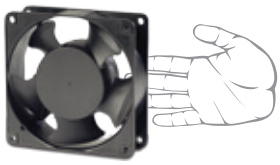
Note that, the value obtained from above equation is rough value, final fan selection should be based on your actual installation test.

What is Ingress Protection

Ingress protection ratings or IP ratings, refer to the level of protection offered by an electrical enclosure, against solids and liquids.

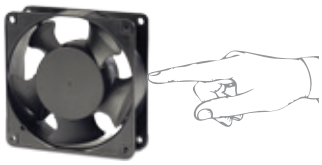
SOLIDS

1



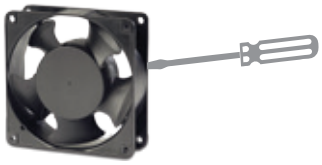
Protected against a solid object greater than 50mm such as hand

2



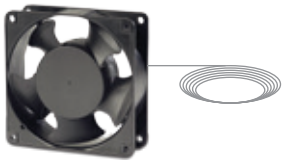
Protected against a solid object greater than 12.5mm such as finger

3



Protected against a solid object greater than 2.5mm such as a screw-driver

4



Protected against a solid object greater than 1mm such as a wire

5

Dust protected, limited ingress of duct permitted. Will not interfere with operation of the equipment. Two to eight hours

6

Dust tight, no ingress of dust. Two to eight hours

WATER

1

Protected against vertically falling drop of water. Limited ingress permitted. Duration 10 minutes

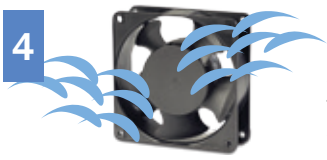
2

Protected against vertically falling drops of water with Fan tilted up to 15 degrees from the vertical. Duration 10 minutes, shall have no harmful effect.

3

Protected against sprays of water up to 60 degrees from the vertical. Duration 5 minutes, shall have no harmful effect.

4



Protected against water splashed from all directions. Duration 5 minutes, shall have no harmful effect.

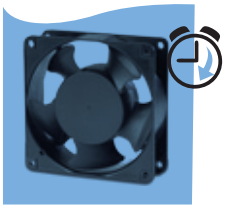
5

Protected against jets of water. Duration 3 minutes, shall have no harmful effect.

6

Water projected from powerful source shall not enter the enclosure in harmful effect.

7



Protection against the effects of immersion in water between 15cm and 1 meter for 30 minutes

8

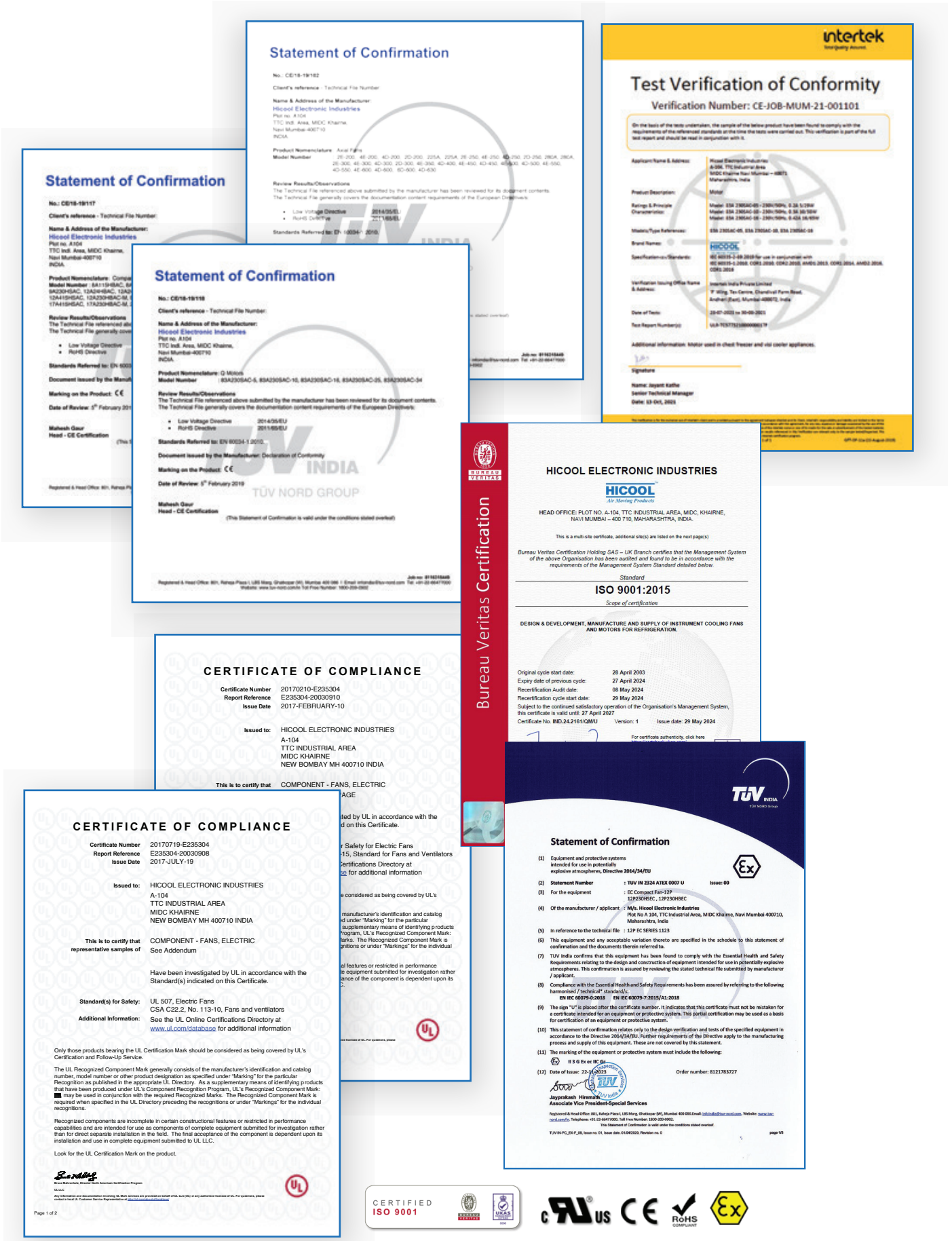
Protection against the effects of immersion in water under pressure for long periods

IP Ratings Explained

E.g. IP 4 4

The first digit (4) represents the protection against solid objects and the second number (4), against water

Certifications



Note:

■ **Certifications may vary by product.**

Product Nomenclature

Large Axial Fans

2	E	-	200	S
Pole	Phase		Fan Dia	Direction of Airflow
2 4 6	E-Single Phase D-Three Phase		200 - 800 mm	S- Suction B- Blowing

Centrifugal Blowers

CFB	2	E	-	120	S
Centrifugal Blowers	Pole	Phase		Fan Dia	Direction of Airflow
	2 4	E-Single Phase D-Three Phase			S- Single Inlet D- Dual Inlet

Q-Motors

83	A	230	S	AC	-	5
Motor Size	Material	Voltage	Bearing System	AC Supply		Output Watt
	A - Aluminium	230 VAC	S- Sleeve Bearing B- Ball Bearing			

Backward Curved Fans

BCF	-	133
Backward Curved Fans		Fan Dia

Compact Fans

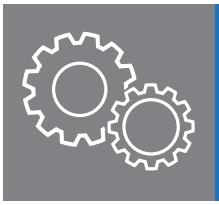
6	P	12	H	S	AC	-	R
Housing Frame Size	Housing Material	Voltage	Speed	Bearing System	Input Supply		Fan Type
6-60x60x20mm 8-80x80x25mm 9-92x92x25mm 12-120x120x38mm 17-172x150x51mm 22-220x220x80mm 225-225x225x80mm 280-280x280x80mm	P- Plastic A- Aluminium	12V 24V 48V 115V 230V 415V	H- High Speed M- Medium Speed L- Low Speed	S- Sleeve Bearing B- Ball Bearing	DC AC EC		R- Round Type Housing S- Square Type Housing X- Super High Speed L- Low Power M- Metal Blade

Industries Served

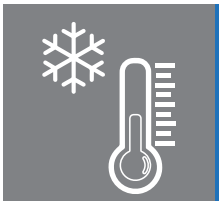
Commercial Refrigeration

Electricals & Electronics

Mobility

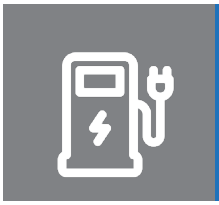


Machinery & Equipments



HVAC

Network & Telecom



EV Charger

Compact Fans - AC

Compact Fans - AC

Model	Bearing	Voltage (VAC)	Frequency (Hz)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
80X80X25mm (Pack size: 50 No's)										
8A115HBAC	Ball	115	50/60	0.210/0.180	2300/2800	14/12	21/25	4/4.8	29/34	12
8A115HSAC	Sleeve	115	50/60	0.210/0.180	2300/2800	14/12	21/25	4/4.8	29/34	12
8A230HBAC	Ball	230	50/60	0.070/0.060	2300/2800	14/12	21/25	4/4.8	29/34	12
8A230HSAC	Sleeve	230	50/60	0.070/0.060	2300/2800	14/12	21/25	4/4.8	29/34	12
92X92X25mm (Pack size: 50 No's)										
9A115HBAC	Ball	115	50/60	0.210/0.180	2300/2800	14/14	36/42	5/6	36/38	15
9A115HSAC	Sleeve	115	50/60	0.210/0.180	2300/2800	14/14	36/42	5/6	36/38	15
9A230HBAC	Ball	230	50/60	0.070/0.060	2300/2800	14/12	36/42	5/6	36/38	15
9A230HSAC	Sleeve	230	50/60	0.070/0.060	2300/2800	14/12	36/42	5/6	36/38	15
120X120X38mm (Pack size: 40 No's)										
12A24HBAC	Ball	24	50/60	1/0.9	2650/2800	18/17	95/102	8.4/9.4	43/46	20
12A24HSAC	Sleeve	24	50/60	1/0.9	2650/2800	18/17	95/102	8.4/9.4	43/46	20
12A115HBAC	Ball	115	50/60	0.200/0.180	2650/2800	14/12	95/102	8.4/9.4	43/46	20
12A115HSAC	Sleeve	115	50/60	0.200/0.180	2650/2800	14/12	95/102	8.4/9.4	43/46	20
12A230HBAC	Ball	230	50/60	0.100/0.090	2650/2800	18/17	95/102	8.4/9.4	43/46	20

Note:
- **Weight mentioned is for the pack size.**
- **Ask for Low Noise versions**

Specifications subject to change without notice

Compact Fans - AC

Model	Bearing	Voltage (VAC)	Frequency (Hz)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
12A230HSAC	Sleeve	230	50/60	0.100/0.090	2650/2800	18/17	95/102	8.4/9.4	43/46	20
12A415HBAC	Ball	415	50/60	0.070/0.060	2650/2800	20/20	95/102	8.4/9.4	43/46	20
12A415HSAC	Sleeve	415	50/60	0.070/0.060	2650/2800	20/20	95/102	8.4/9.4	43/46	20
172 Φ x150x51mm & 172x172x55mm (Pack size: 20 No's)										
17A115HBAC	Ball	115	50/60	0.450/0.450	2600/2750	41/38	190/235	16/21	52/55	20
17A115HSAC	Sleeve	115	50/60	0.450/0.450	2600/2750	41/38	190/235	16/21	52/55	20
17A230HBAC	Ball	230	50/60	0.250/0.245	2600/2750	38/37	190/235	16/21	52/55	20
17A230HSAC	Sleeve	230	50/60	0.250/0.245	2600/2750	38/37	190/235	16/21	52/55	20
17A415HBAC	Ball	415	50/60	0.125/0.125	2600/2750	38/38	190/235	16/21	52/55	20
17A415HSAC	Sleeve	415	50/60	0.125/0.125	2600/2750	38/38	190/235	16/21	52/55	20
220 Φ X60mm & 220X220X60mm (Pack size: 10 No's)										
22A115HBAC	Ball	115	50	0.640	2300	50	360	23	56	16
22A115HSAC	Sleeve	115	50	0.640	2300	50	360	23	56	16
22A115HBAC-X	Ball	115	50	0.650	2600	55	430	28	56	16

Note:
- **Weight mentioned is for the pack size.**
- **Ask for Low Noise versions**
- **17A and 22A models available in square and round casings**

Specifications subject to change without notice

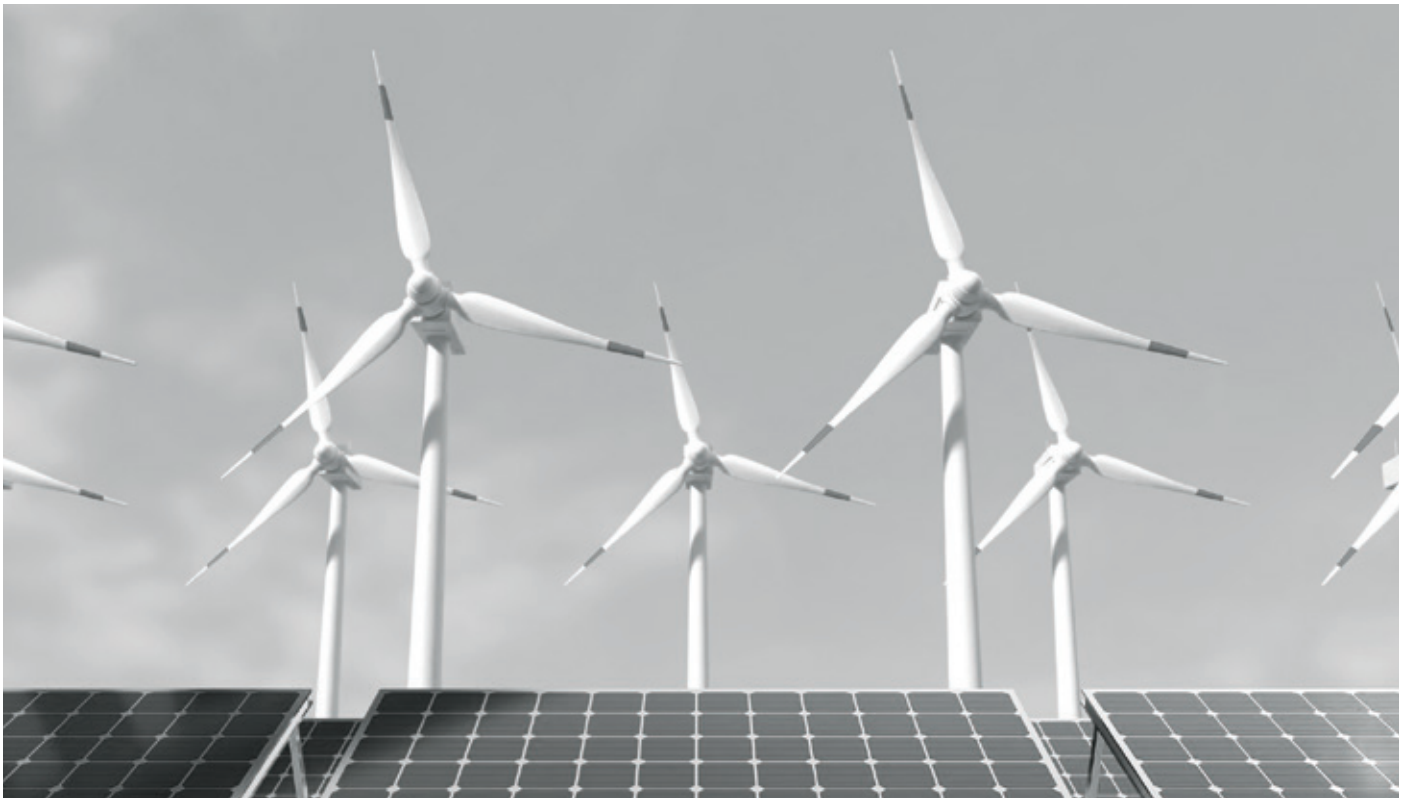
Compact Fans - AC

Model	Bearing	Voltage (VAC)	Frequency (Hz)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
22A115HBAC-X-6H	Ball	115	60	0.700	2600	55	430	28	56	16
22A230HBAC	Ball	230	50	0.320	2300	50	360	23	56	16
22A230HSAC	Sleeve	230	50	0.320	2300	50	360	23	56	16
22A230HSAC-X	Sleeve	230	50	0.32	2600	55	430	28	56	16
22A230HSAC-X-6H	Sleeve	230	60	0.40	2700	60	450	29	57	16
22A230HBAC-X	Ball	230	50	0.32	2600	55	430	28	56	16
22A230HBAC-X-6H	Ball	230	60	0.40	2700	60	450	29	57	16
22A415HBAC	Ball	415	50	0.200	2300	50	360	23	56	16
22A415HSAC	Sleeve	415	50	0.200	2300	50	360	23	56	16
22A415HSAC-X	Sleeve	415	50	0.160	2600	50	430	28	56	16
22A415HBAC-X	Ball	415	50	0.160	2600	50	430	28	56	16

Note:
- **Weight mentioned is for the pack size.**
- **Ask for Low Noise versions**
- **17A and 22A models available in square and round casings**

Specifications subject to change without notice

Compact Fans - EC



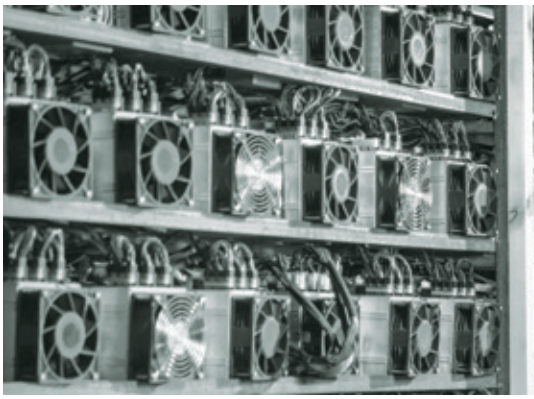
Compact Fans - EC

Model	Bearing	Voltage (VAC)	Frequency (Hz)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
120X120X38mm (Pack size: 40 No's)										
12P115HBEC	Ball	115	50/60	0.5	2600	5.5	95	7	43	11
12P115HSEC	Sleeve	115	50/60	0.5	2600	5.5	95	7	43	11
12P230HBEC	Ball	230	50/60	0.4	2600	5.5	95	7	43	11
12P230HSEC	Sleeve	230	50/60	0.4	2600	5.5	95	7	43	11
12P230HBEC-1X	Ball	230	50/60	0.05	2900	5.5	105	7	43	11
12P230HSEC-1X	Sleeve	230	50/60	0.05	2900	5.5	105	7	43	11
B12038230H	Ball	230	50/60	0.250	4500	30	243	29.2	64	11
172X150X51mm (Pack size: 20 No's)										
17A115HBEC	Ball	115	50/60	0.14	2600	12	190	16	52	20
17A115HSEC	Sleeve	115	50/60	0.14	2600	12	190	16	52	20
17A230HBEC	Ball	230	50/60	0.11	2600	12	190	16	52	20
17A230HSEC	Sleeve	230	50/60	0.11	2600	12	190	16	52	20
220X60mm (Pack size: 10 No's)										
22A115HBEC	Ball	115	50/60	0.22	2500	22	405	24	56	16
22A230HBEC	Ball	230	50/60	0.17	2500	22	405	24	56	16

Note:

- **17A and 22A fan models are non-standard and custom-made to order.**
- **Weight mentioned is for the pack size.**

Compact Fans - DC Brushless



Compact Fans - DC Brushless

Model	Bearing	Voltage (VDC)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
50X50X15mm / 50X50X20mm (Pack size: 200 No's)									
5P12HSDC-15	Sleeve	12	0.140	6000	1.68	18.80	6.80	37.20	10
5P12HSDC-15	Sleeve	12	0.150	7600	1.8	21.00	12.20	40.00	10
5P24HBDC-20	Ball	24	0.150	7500	3.6	20.50	12.20	40.00	10
60X60X25mm (Also available 60X60X15mm and 60X60X20mm) (Pack size: 200 No's)									
6P12HSDC	Sleeve	12	0.110	4300	1.32	18	3.8	33	10
6P12HBDC	Ball	12	0.080	4300	0.96	18	3.8	33	10
6P12HSDC-X	Sleeve	12	0.120	5000	1.44	21	4.0	35	10
6P12HBDC-X	Ball	12	0.120	5000	1.44	21	4.0	35	10
6P12HSDC-1X	Sleeve	12	0.130	6000	1.56	32	8.5	41	10
6P12HBDC-1X	Ball	12	0.130	6000	1.56	32	8.5	41	10
6P24HSDC	Sleeve	24	0.060	4300	1.44	18	3.8	33	10

Additional Features - Fan Failure Alarm ■ Alarm Signal For Speed Monitoring ■ PWM ■ Higher Air Flow ■ Non-standard voltages ■

Note:
- **Weight mentioned is for the pack size.**
- **17A and 22A models available in square and round casings**

Compact Fans - DC Brushless

Model	Bearing	Voltage (VDC)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
60X60X25mm (Also available 60X60X15mm and 60X60X20mm) (Pack size: 200 No's)									
6P24HBDC	Ball	24	0.060	4300	1.44	18	3.8	33	10
6P24HSDC-X	Sleeve	24	0.065	5000	1.56	21	4.0	35	10
6P24HBDC-X	Ball	24	0.065	5000	1.56	21	4.0	35	10
6P24HSDC-1X	Sleeve	24	0.070	6000	1.68	32	8.5	41	10
6P24HBDC-1X	Ball	24	0.070	6000	1.68	32	8.5	41	10
80X80X25mm (Available upto 58 CFM) (Pack size: 200 No's)									
8P12HSDC-L	Sleeve	12	0.120	3000	1.44	39	3.8	32	15
8P12HBDC-L	Ball	12	0.120	3000	1.44	39	3.8	32	15
8P12HSDC-X	Sleeve	12	0.140	3200	1.68	41	4.5	33	15
8P12HBDC-X	Ball	12	0.140	3200	1.68	41	4.5	33	15
8P12HSDC-1X	Sleeve	12	0.150	3600	1.80	47	4.8	38	15
8P12HBDC-1X	Ball	12	0.150	3600	1.80	47	4.8	38	15
8P24HSDC-L	Sleeve	24	0.060	3000	1.44	39	3.8	32	15
8P24HBDC-L	Ball	24	0.060	3000	1.44	39	3.8	32	15
8P24HSDC-X	Sleeve	24	0.085	3200	2.04	41	4.5	33	15

Additional Features - Fan Failure Alarm ■ Alarm Signal For Speed Monitoring ■ PWM ■ Higher Air Flow ■ Non-standard voltages ■

Note:
- **Weight mentioned is for the pack size.**
- **17A and 22A models available in square and round casings**

Compact Fans - DC Brushless

Model	Bearing	Voltage (VDC)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
80X80X25mm (Available upto 58 CFM) (Pack size: 200 No's)									
8P24HBDC-X	Ball	24	0.085	3200	2.04	41	4.5	33	15
8P24HSDC-1X	Sleeve	24	0.110	3600	2.64	47	4.8	38	15
8P24HBDC-1X	Ball	24	0.110	3600	2.64	47	4.8	38	15
8P24HBDC-2X	Ball	24	0.140	4000	3.36	52	5.0	41	15
92X92X25mm (Available upto 65 CFM) (Pack size: 100 No's)									
9P12HSDC	Sleeve	12	0.200	2500	2.40	55	5	40	12
9P12HBDC	Ball	12	0.200	2500	2.40	55	5	40	12
9P24HSDC	Sleeve	24	0.120	2500	2.88	55	5	40	12
9P24HBDC	Ball	24	0.120	2500	2.88	55	5	40	12
120X120X38mm (Available upto 240 CFM) (Pack size: 40 No's)									
12P12HSDC	Sleeve	12	0.550	2700	6.6	105	8	45	11
12P12HBDC	Ball	12	0.550	2700	6.6	105	8	45	11
12P24HSDC	Sleeve	24	0.250	2700	6.0	105	8	45	11
12P24HBDC	Ball	24	0.250	2700	6.0	105	8	45	11
12P24HBDC-1X	Ball	24	0.400	3100	9.6	118	8.50	47	11
12P24HBDC-2X	Ball	24	0.60	3300	14.6	138	9.0	48	11
12P24HBDC-3X	Ball	24	0.80	4200	19.2	190	17.1	54.6	11

Additional Features - Fan Failure Alarm ■ Alarm Signal For Speed Monitoring ■ PWM ■ Higher Air Flow ■ Non-standard voltages ■

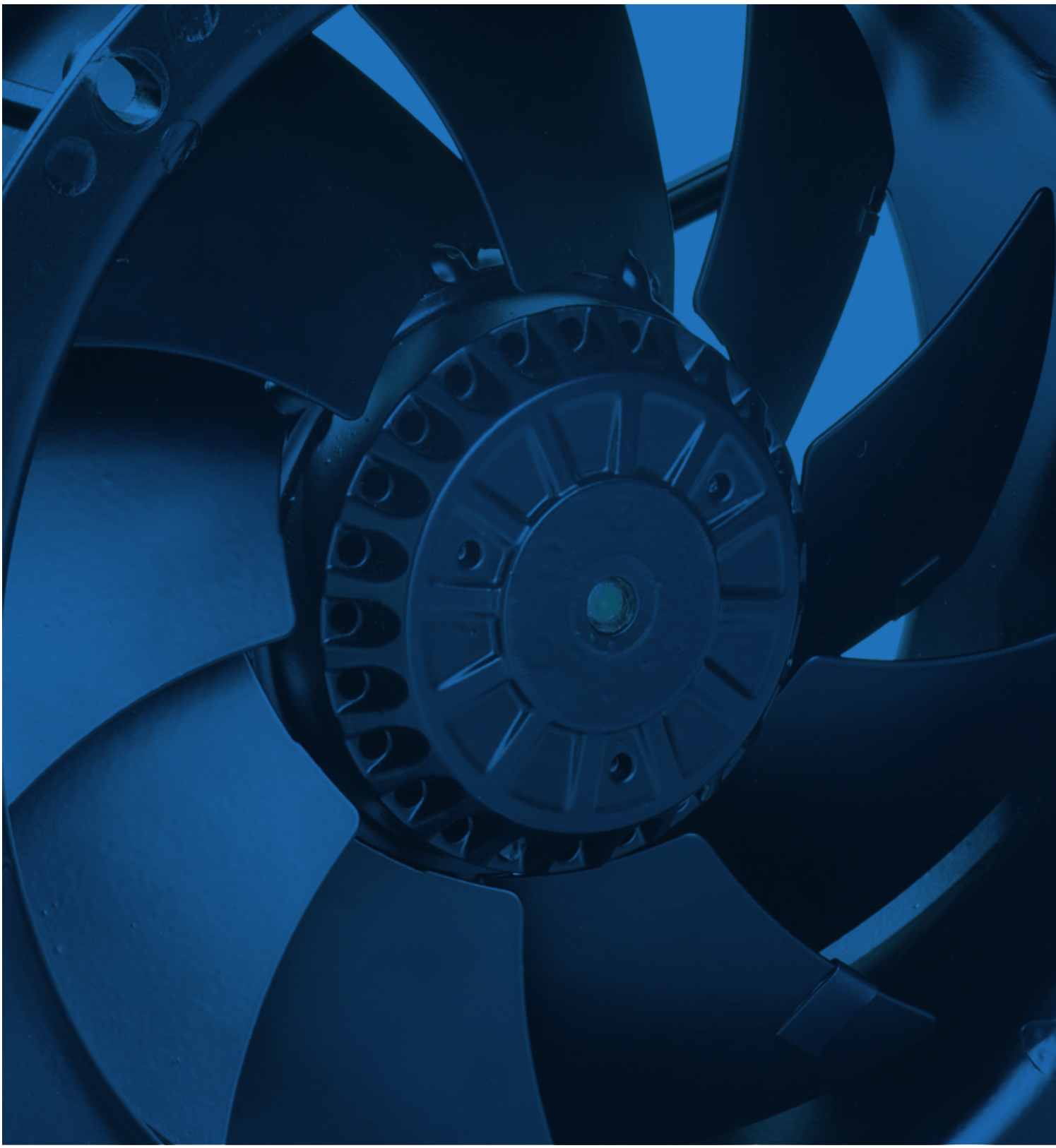
Note:
- **Weight mentioned is for the pack size.**
- **17A and 22A models available in square and round casings**

Compact Fans - DC Brushless

Model	Bearing	Voltage (VDC)	Current (A)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
12P48HBDC	Ball	48	0.125	2700	6.0	105	8	45	11
12P48HSDC	Sleeve	48	0.125	2700	6.0	105	8	45	11
12P48HBDC-1X	Ball	48	0.25	3100	12	118	8.50	47	11
12P48HBDC-2X	Ball	48	0.30	3300	14.4	138	9.0	48	11
12P48HBDC-3X	Ball	48	0.48	4200	23.0	190	17.1	54.6	11
12P48HBDC-4X	Ball	48	1.33	5500	63.8	285	47.1	69.5	11
172X150X51mm & 172X172X55mm (Available upto 282 CFM) (Pack size: 20 No's)									
17A12HBDC	Ball	12	1.6	3000	19.2	210	13	58	15
17A24HBDC	Ball	24	0.75	3000	18.0	210	13	58	15
17A48HBDC	Ball	48	0.45	3000	21.6	210	13	58	15
220ΦX60mm & 220X220X60mm (Pack size: 10 No's)									
22A12HBDC	Ball	12	4.00	2900	48	400	28	62	11
22A24HBDC	Ball	24	1.50	2900	36	400	28	62	11
22A48HBDC	Ball	48	1.00	2900	48	400	28	62	11
22A24HBDC-S20	Ball	24	2.20	3000	52.8	641	24.5	68	11

Additional Features - Fan Failure Alarm ■ Alarm Signal For Speed Monitoring ■ PWM ■ Higher Air Flow ■ Non-standard voltages ■

Note:
- **Weight mentioned is for the pack size.**
- **17A and 22A models available in square and round casings**



Compact Fans - All Metal


INVERTER

Compact Fans - All Metal

AC Axial

Model	Bearing	Voltage (VAC)	Frequency (Hz)	Current (mA)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
120 x 120 x 38 mm - Metal (Pack size: 20 No's)										
12A230HBAC-M	Ball	230	50/60	100/90	2700/3100	17/15	95/107	8.4/9.4	42/46	12
172 x 150 x 55 mm - Metal (Pack size: 10 No's)										
17A230HBAC-M	Ball	230	50/60	250/230	2800/3250	42/42	195/230	14/16	49/53	12
225 x 225 x 80 mm - Metal (Pack size: 8 No's)										
225A230HBAC-M	Ball	230	50/60	300/325	2500/2800	65/70	530/600	17/14	59/61	20
225A230HBAC-M-J	Ball	230	50	420	2750	82	600	18.7	60	20
280 x 280 x 80 mm - Metal (Pack size: 6 No's)										
280A230HBAC-M	Ball	230	50/60	590/820	2500/2700	119/130	1090/1130	16.5/20	68/70	21

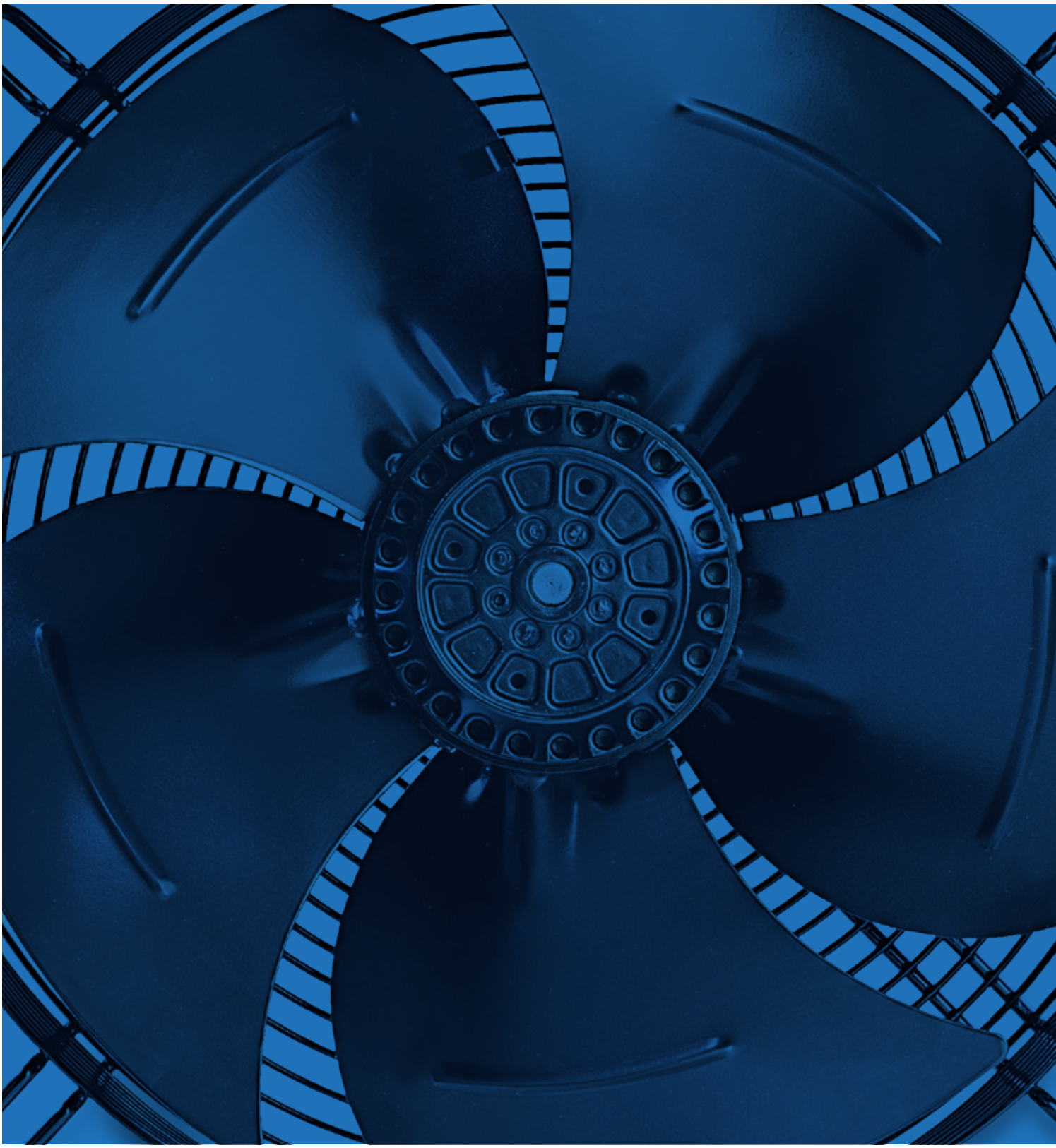
Also available 115VAC & 415VAC

DC Brushless

Model	Bearing	Voltage (VDC)	Current (mA)	Speed (RPM)	Power (W)	Air Flow (CFM)	Static Pressure (mm H_2O)	Noise (dBA)	Wt. kg
225 x 225 x 80 mm - Metal (Pack size: 6 No's)									
225A48HBDC - M	Ball	48	1100	2850	52.8	647	25	67	20
280 x 280 x 80 mm - Metal (Pack size: 6 No's)									
280A48HBDC - M	Ball	48	1900	2700	91.2	1130	22	69	21

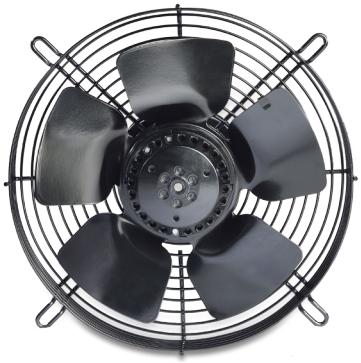
Note:
■ **Weight mentioned is for the pack size.**

Specifications subject to change without notice



Large Axial Fans

Large Axial Fans



Model	Size in inch	Poles	Phase	Voltage (VAC)	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Airflow (CFM)	Noise dBA	Capacitor µf	wt Kg
2E-200	8	2	Single	230	0.30	65	2400	850	500	55	2	2.5
4E-200	8	4	Single	230	0.21	45	1450	450	265	46	1.5	2.5
4D-200	8	4	Three	415	0.12	35	1450	450	265	46	-	2.5
2D-200	8	2	Three	415	0.22	80	2400	850	500	55	-	2.5
2E-250	10	2	Single	230	0.55	115	2400	1730	1018	65	3/3.15	3.0
4E-250	10	4	Single	230	0.30	60	1400	950	559	53	2	3.0
4D-250	10	4	Three	415	0.25	60	1400	950	559	53	-	3.0
2D-250	10	2	Three	415	0.25	115	2400	1730	1018	65	-	3.0
2E-300	12	2	Single	230	0.65	145	2300	2300	1354	65	4	3.3
4E-300	12	4	Single	230	0.42	85	1380	1850	1089	54	3/3.15	3.3
4D-300	12	4	Three	415	0.22	80	1380	1850	1089	54	-	3.3
2D-300	12	2	Three	415	0.35	145	2300	2300	1354	65	-	3.3
4E-350	14	4	Single	230	0.65	140	1380	2600	1530	58	4	4.9
4D-350	14	4	Three	415	0.38	140	1380	2600	1530	58	-	4.9
4E-400	16	4	Single	230	0.82	180	1380	4000	2354	65	6	5.6
6E-400	16	6	Single	230	0.52	108	920	3300	1942	59	3	5.6
4D-400	16	4	Three	415	0.47	180	1380	4000	2354	65	-	5.6

Note:
- **All models available in Suction (S) and Blow (B)**
- **Multiple frequency and voltage range options available**
- **Also available in 6 pole motors**

Specifications subject to change without notice

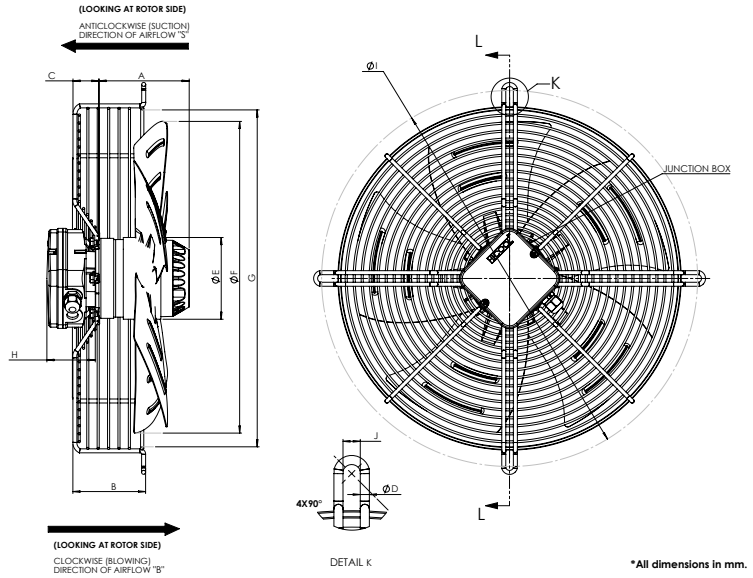
Large Axial Fans

Model	Size in inch	Poles	Phase	Voltage (VAC)	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Airflow (CFM)	Noise dBA	Capacitor µf	wt Kg
4E-450	18	4	Single	230	1.2	250	1380	5500	3237	66	8	7.2
6E-450	18	6	Single	230	0.70	120	920	3780	2223	61	4	7.2
4D-450	18	4	Three	415	0.6	250	1380	5500	3237	66	-	7.2
4E-500	20	4	Single	230	1.75	380	1320	7200	4237	71	10	9.0
6E-500	20	6	Single	230	1.00	180	950	5720	3366	66	8	9.0
4D-500	20	4	Three	415	1.20	450	1410	7400	4355	71	-	9.0
4E-550	22	4	Single	230	2.55	600	1300	8500	5002	72	12	11.0
4D-550	22	4	Three	415	1.15	500	1400	8900	5238	72	-	11.0
4E-600	24	4	Single	230	3.2	700	1360	10040	5909	74	16	14.0
4D-600	24	4	Three	415	1.60	765	1370	11000	6478	74	-	14.0
6D-600	24	6	Three	415	1.6	520	950	9885	5818	70	-	14.0
4D-630	25	4	Three	415	1.6	815	1320	12420	7310	75	-	15.0
6D-630	25	6	Three	415	1.6	550	900	11785	6936	71	-	15.0
6D-710	28	6	Three	Δ415	1.9	900	900	15120	8899	73	-	30.0
6D-710	28	6	Three	Y415	1.15	650	730	13050	7681	72	-	30.0
6D-800	32	6	Three	Δ415	2.85	1200	920	20695	12181	75	-	35.0
6D-800	32	6	Three	Y415	1.65	930	770	17635	10380	74	-	35.0

Note:
- **All models available in Suction (S) and Blow (B)**
- **Multiple frequency and voltage range options available**
- **Also available in 6 pole motors**

Specifications subject to change without notice

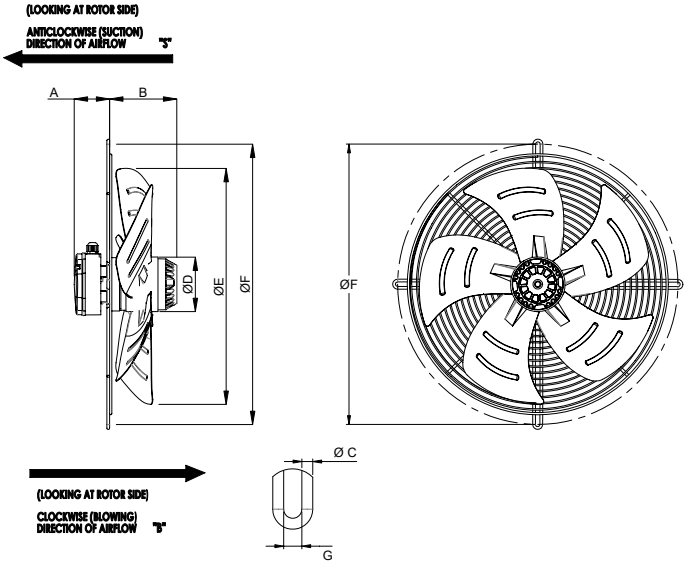
Basket Grill



Dimensions (mm)

Size	A	B	C	D	E	F	G	H	I	J
200	66	45	-	4	92	200	220	60	265	8
250	76	55	-	4	92	250	275	60	325	8
300	86	85	30	4	92	300	320	60	375	8.5
350	104	85	30	5	102	350	370	60	422	9.5
400	117	90	30	5	102	400	420	60	470	9.5
450	130	90	30	6	102	450	470	60	525	9.5
500	129	90	30	6	137	500	520	60	570	10.5
550	144	100	30	6	137	550	570	60	622	10.5
600	164	100	30	7.5	137	600	620	60	680	10.5
630	164	100	30	7.5	137	630	650	60	750	10.5
710	191	175	55	10	180	703	770	60	840	11.5
800	191	175	55	10	180	784	857	60	920	14.0

Flat Grill



Dimensions (mm)

Size	A	B	C	D	E	F	G
200	60	66	4	92	200	265	8.5
250	60	76	4	92	250	325	8.5
300	60	86	4	92	300	365	8.5
350	60	109	5	102	350	422	10
400	60	122	5	102	400	470	10
450	60	135	5	102	450	522	10
500	60	133	6	137	500	570	11.5
550	60	143	6	137	550	625	11.5

Ventilation Fans


WC

Propeller Fans

Model	Size in inch	Poles	Phase	Voltage (VAC)	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Airflow (CFM)	Noise (dBA)	Capacitor (µF)	wt (Kg)
HV2E200SSFPF	8	2	Single	230	0.3	65	2400	850	500	55	2	3
HV4E200SSFPF	8	4	Single	230	0.21	45	1450	450	265	46	1.5	3
HV2E250SSFPF	10	2	Single	230	0.55	115	2400	1730	1018	65	3/3.15	4
HV4E250SSFPF	10	4	Single	230	0.3	60	1400	950	559	53	2	4
HV2E300SSFPF	12	2	Single	230	0.66	145	2300	2300	1354	65	4	5
HV4E300SSFPF	12	4	Single	230	0.42	85	1380	1850	1089	54	3/3.15	5
HV4E350SSFPF	14	4	Single	230	0.65	140	1380	2600	1530	58	4	7
HV4D350SSFPF	14	4	Three	415	0.38	140	1380	2600	1530	58	--	7
HV4E400SSFPF	16	4	Single	230	0.82	180	1380	4000	2354	65	6	9
HV4D400SSFPF	16	4	Three	415	0.47	180	1380	4000	2354	65	--	9
HV4E450SSFPF	18	4	Single	230	1.2	250	1380	5500	3237	66	8	10
HV4D450SSFPF	18	4	Three	415	0.6	250	1380	5500	3237	66	--	10
HV4E500SSFPF	20	4	Single	230	1.75	380	1320	7200	4237	71	10	15
HV4D500SSFPF	20	4	Three	415	1.2	450	1410	7400	4355	71	--	15
HV4E550SSFPF	22	4	Single	230	2.55	600	1300	8500	5002	72	12	18
HV4D550SSFPF	22	4	Three	415	1.15	500	1400	8900	5238	72	--	18
HV4E600SSFPF	24	4	Single	230	3.2	700	1360	10040	5909	74	16	22
HV4D600SSFPF	24	4	Three	415	1.60	765	1370	11000	6478	74	--	22
HV4E630SSFPF	25	4	Single	230	3.5	750	1360	11785	6936	75	16	26
HV4D630SSFPF	25	4	Three	415	1.6	815	1320	12420	7310	75	--	26

Note:

- **All models available in Suction (S) and Blow (B)**
- **Multiple frequency and voltage range options available**
- **Also available in 6 pole motors**

Specifications subject to change without notice

Tube Axial Fans

Model	Size in inch	Poles	Phase	Voltage (VAC)	Frequency	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Airflow (CFM)	Noise dBA	Capacitor µf
2E-300	12	2	Single	230	50	0.65	145	2300	2300	1354	65	4
2D-300	12	2	Three	415	50	0.35	145	2300	2300	1354	65	-
4E-300	12	4	Single	230	50/60	0.42/0.50	85/115	1380/1550	1850/2100	1089/1240	54/56	3
4D-300	12	4	Three	415	50	0.22	75	1380	1850	1089	54	-
4E-350	14	4	Single	230	50/60	0.65/0.76	140/170	1380/1550	2600/2900	1530/1710	58	4
4D-350	14	4	Three	415	50/60	0.38/0.50	140/170	1380/1550	2600/2900	1530/1710	58	-
4E-400	16	4	Single	230	50/60	0.82/0.92	180/207	1380/1520	4000/4400	2354/2590	65	6
4D-400	16	4	Three	415	50/60	0.47/0.50	180/207	1380/1520	4000/4400	2354/2590	65	-
6E-400	16	6	Single	230	50	0.52	108	920	3300	1942	59	4
4E-450	18	4	Single	230	50/60	1.2/1.23	250/285	1380/1580	5500/6300	3237/3708	66	8
4D-450	18	4	Three	415	50/60	0.6/0.75	250/285	1380/1580	5500/6300	3237/3708	66	-
6E-450	18	6	Single	230	50	0.75	138	920	3780	2223	61	4
6D-450	18	6	Three	415	50	0.4	138	920	3780	2223	61	-
4E-500	20	4	Single	230	50	1.75	380	1320	7200	4237	71	10
4D-500	20	4	Three	415	50	1.2	450	1410	7400	4355	71	-
6E-500	20	6	Single	230	50	0.7	180	950	5720	3366	66	8
6D-500	20	6	Three	415	50	0.51	195	910	5840	3437	66	-

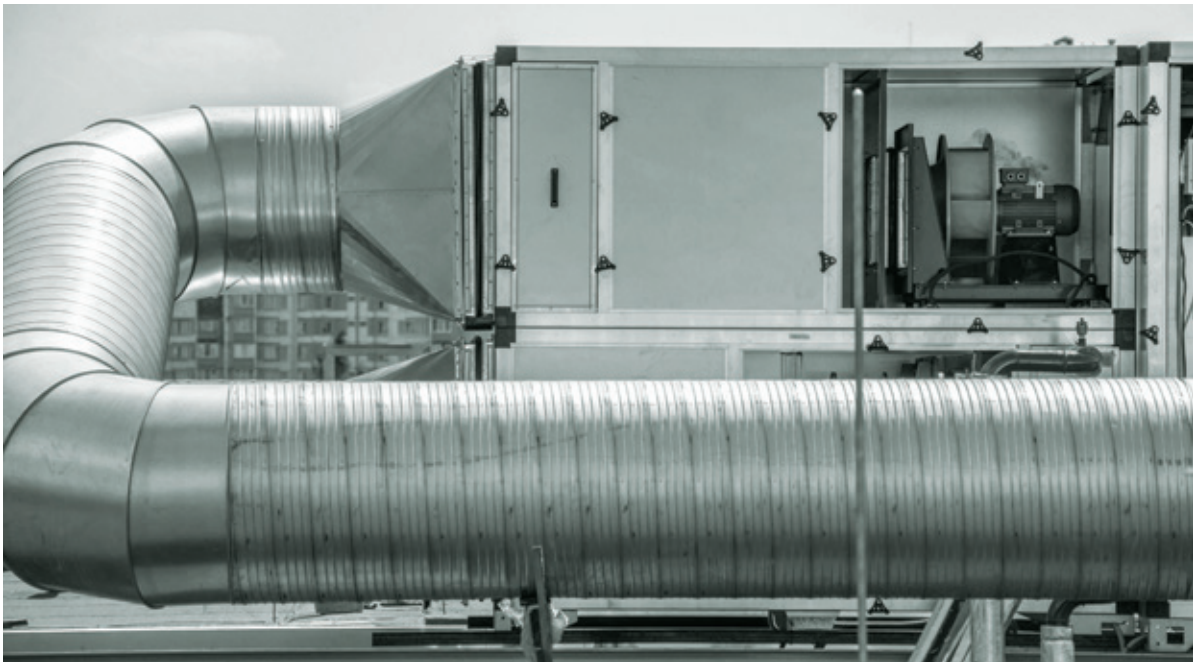
Specifications subject to change without notice

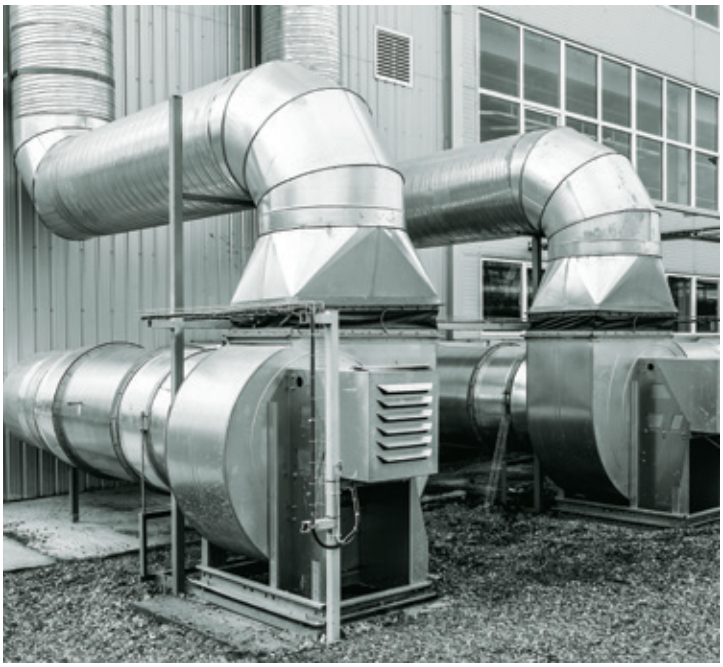
Tube Axial Fans

Model	Size in inch	Poles	Phase	Voltage (VAC)	Frequency	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Airflow (CFM)	Noise dBA	Capacitor µf
4E-600	24	4	Single	230	50	3.2	700	1360	10040	5909	74	16
4D-600	24	4	Three	415	50	1.6	765	1370	11000	6478	74	-
6D-600	24	6	Three	415	50	1.46	520	950	9285	6054	70	-
4E-630	25	4	Single	230	50	3.2	750	1360	11435	6730	75	16
4D-630	25	4	Three	415	50	1.6	815	1320	12420	7310	75	-
6E-630	25	6	Single	230	50	1.8	380	900	10515	6188	71	12
6D-630	25	6	Three	415	50	1.6	550	900	11785	6936	71	-

Specifications subject to change without notice

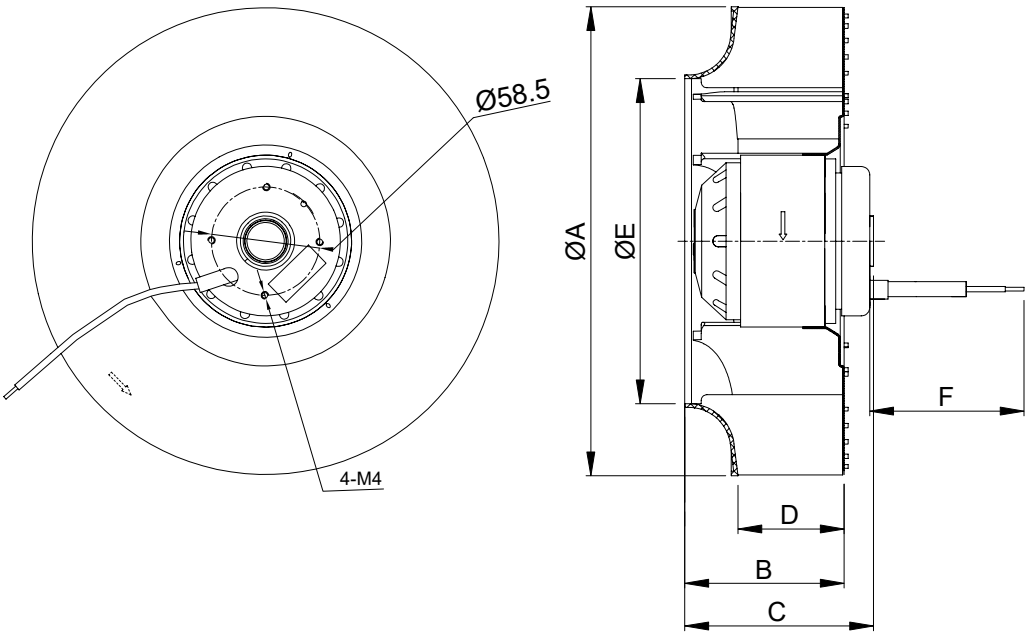
Backward Curved Fans





Backward Curved Fans

Model	Size mm	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Power (W)	Speed (RPM)	Airflow (M³/hr)	Noise dBA	Cap µf/450V	wt Kg	Pack Size
BCF-175	Φ175 x 62	Single	230	50/60	0.39/0.34	61/62	2350/2200	440/470	59/62	2	11	8
BCF-190	Φ192 x 63	Single	230	50/60	0.39/0.48	65/68	2400/2600	570/630	62/65	2	14	8
BCF-220	Φ220 x 63	Single	230	50/60	0.4/0.5	110/120	2500/2600	800/865	65/68	3	16	8
BCF-225	Φ225 x 88	Single	230	50/60	0.57	129	2600	1070	79	4	26	8
BCF-250	Φ252 x 84	Single	230	50/60	0.83/1.13	190/250	2550/2750	1540/1660	74/76	6	26	8
BCF-355	Φ355 x 174	Single	230	50	1.12	245	1400	2800	74	4	15	2
BCF-400	Φ400 x 185	Single	230	50	1.6	370	1370	3653	77	6	13	1

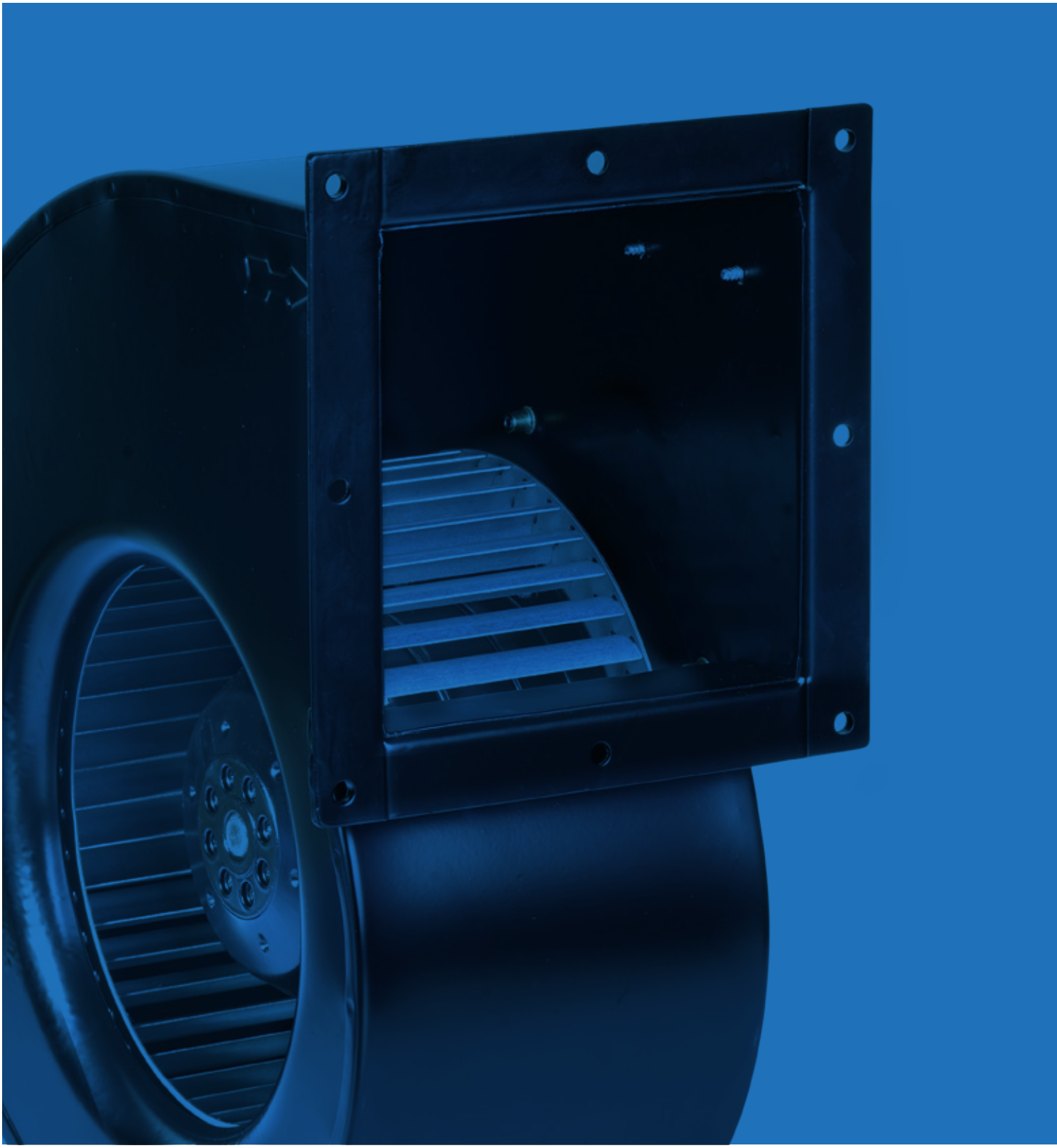


Dimensions (mm)

Model	A	B	C	D	E	F
BCF-133	133	59.5	77.5	42	93	600
BCF-175	180	61.5	71	45	131	1000
BCF-190	192	63	68	45	130	1100
BCF-220	220	63	72	45	159	1100
BCF-225	225	88	104	63	155	500
BCF-250	252	84.3	102	56	172	900
BCF-355	359	174	195	121	250	520
BCF-400	413	185	236	123	270	990

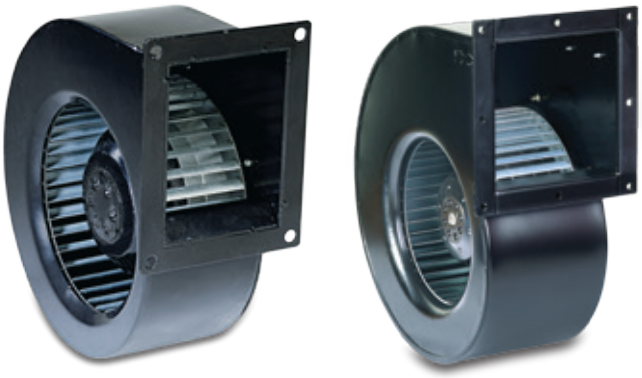
Note:
- **Few sizes available in 3 Phase.**

Specifications subject to change without notice



Centrifugal Blowers

Centrifugal Blowers
Single Inlet

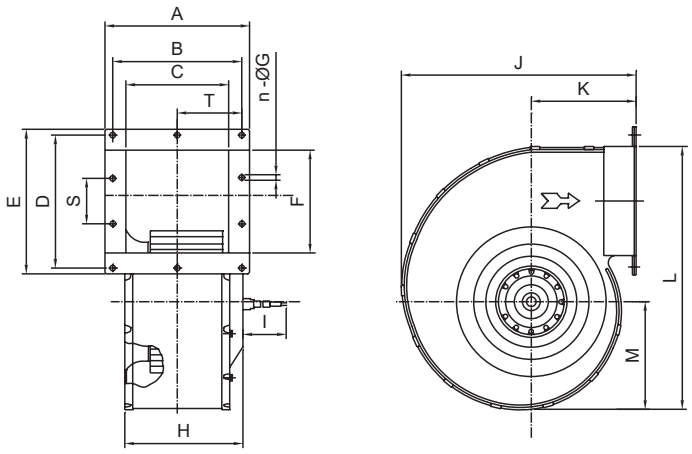


Model	Size mm	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Noise (dBA)	Cap µf/450V	Pack Size
CFB 2E-150S	Ø150X65	Single	230	50	1.0	220	2300	475	60	4.0	6
CFB 4E-150S	Ø150X65	Single	230	50	0.42	85	1400	300	54	3.0	6

Centrifugal Blowers
Dual Inlet

Model	Size mm	Phase	Voltage (VAC)	Frequency (Hz)	Current (A)	Power (W)	Speed (RPM)	Airflow (M^3/hr)	Noise (dBA)	Cap µf/450V	Pack Size
CFB 2E-133D	Ø133X180	Single	230	50	0.85	190	1500	680	60	4	1

Centrifugal Blowers - Single Inlet

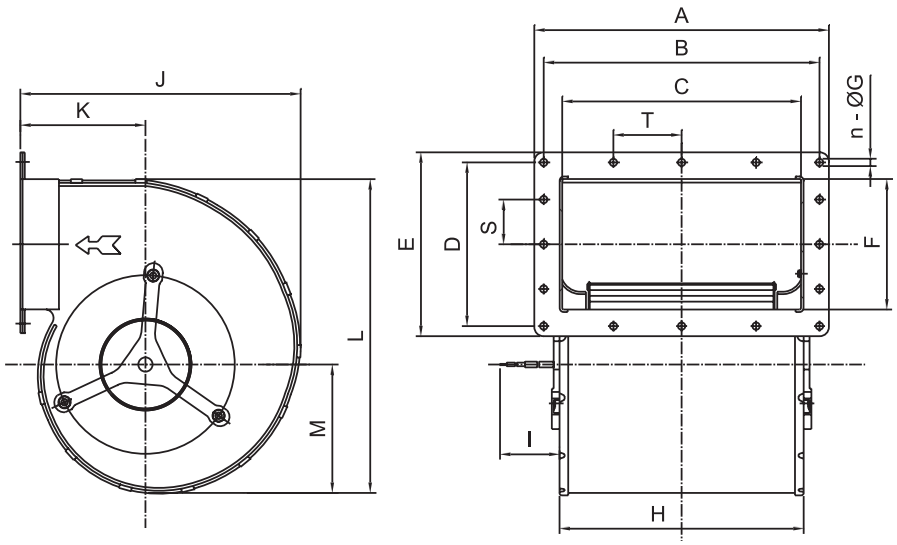


Dimensions (mm)

Model	A	B	C	D	E	F	n-ΦG	H	I	J	K	L	M	S	T
CFB2E-150S	102	90	72	120	140	92	4-7.0	77	1000	230	105	245	107	-	-
CFB4E-150S	102	90	72	120	140	92	4-7.0	77	1000	230	105	245	107	-	-

Specifications subject to change without notice

Centrifugal Blowers - Dual Inlet



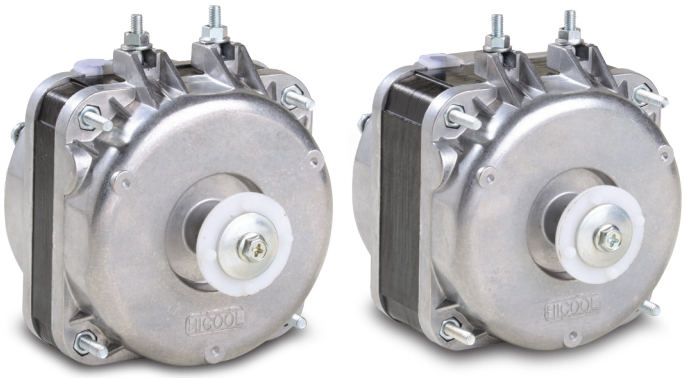
Dimensions (mm)

Model	A	B	C	D	E	F	n-ΦG	H	I	J	K	L	M	S	T
CFB2E-133D	254	238	212	92	108	67	6-Φ5.6	217	1000	174	90	180	80	-	-

Specifications subject to change without notice

Q Motors

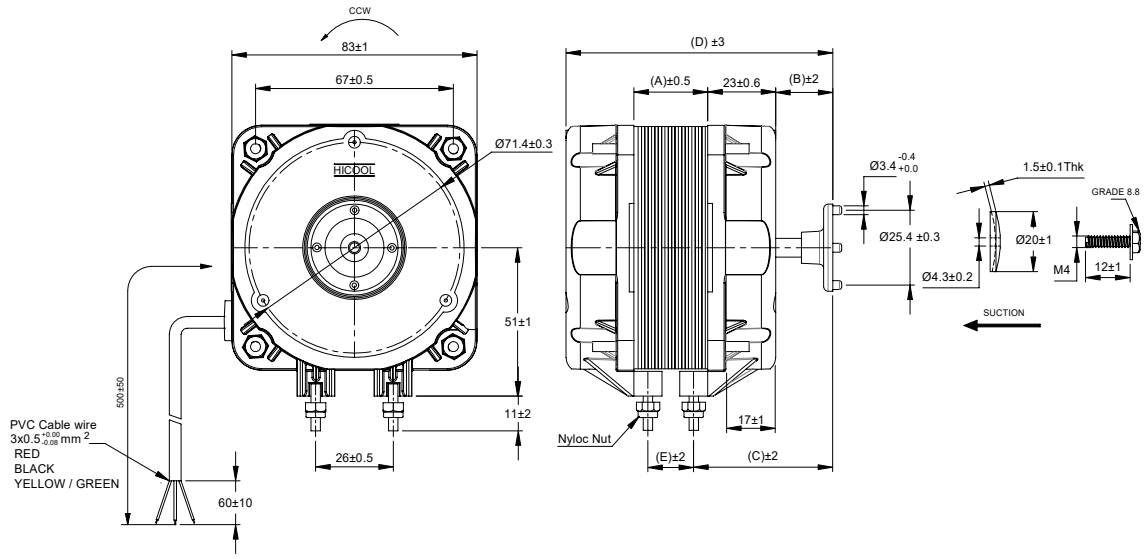
Q Motors



Model	Poles	Voltage (VAC)	Frequency (Hz)	Current	Input Watt	Output Watt	Speed (RPM)	Recommended Fan Blade	Rotation	Pack Size	Wt. kg
83 A 230 SAC-05	4	230	50	0.20	30	5	1300	200/28°	CCW	20	20
83 A 230 SAC-07	4	230	50	0.25	32	7	1300	230/28°	CCW	20	24
83 A 230 SAC-10	4	230	50	0.30	38	10	1300	230/28°	CCW	20	24
83 A 230 SAC-16	4	230	50	0.42	65	16	1300	254/28°	CCW	20	24
83 A 230 SAC-25	4	230	50	0.70	90	25	1300	300/28°	CCW	10	22
83 A 230 SAC-34	4	230	50	0.85	110	34	1300	300/28°	CCW	10	24

Note:
- **Also available in Ball Bearing.**

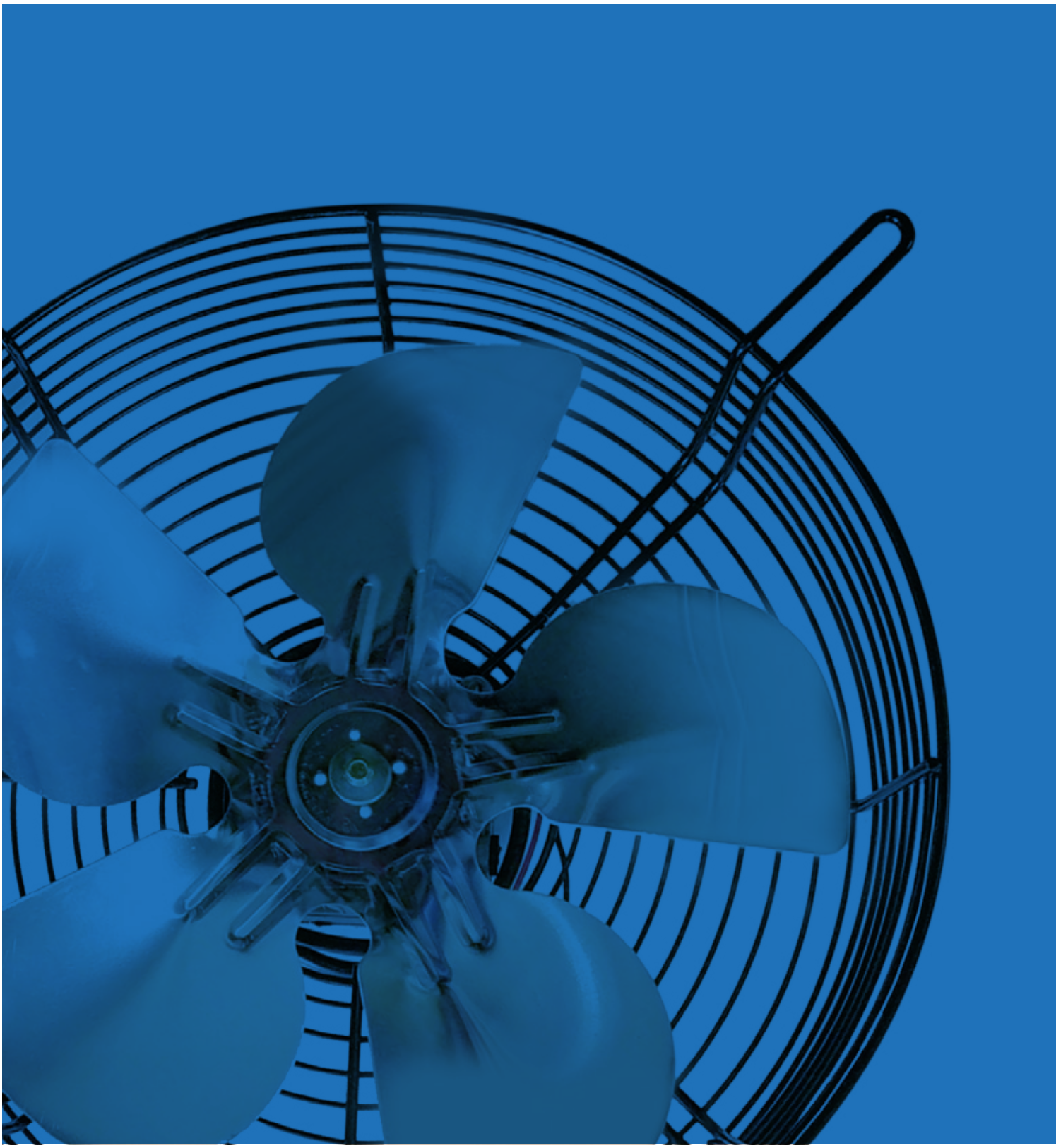
Specifications subject to change without notice



Dimensions (mm)

Model	A	B	C	D	E
83 A 230 SAC-05	13	18	47	79	-
83 A 230 SAC-07	19	13	41	79	-
83 A 230 SAC-10	19	18	47	86	-
83 A 230 SAC-16	25	18	47	92	-
83 A 230 SAC-25	40	22	53	109	31
83 A 230 SAC-34	45	28	56	121	36

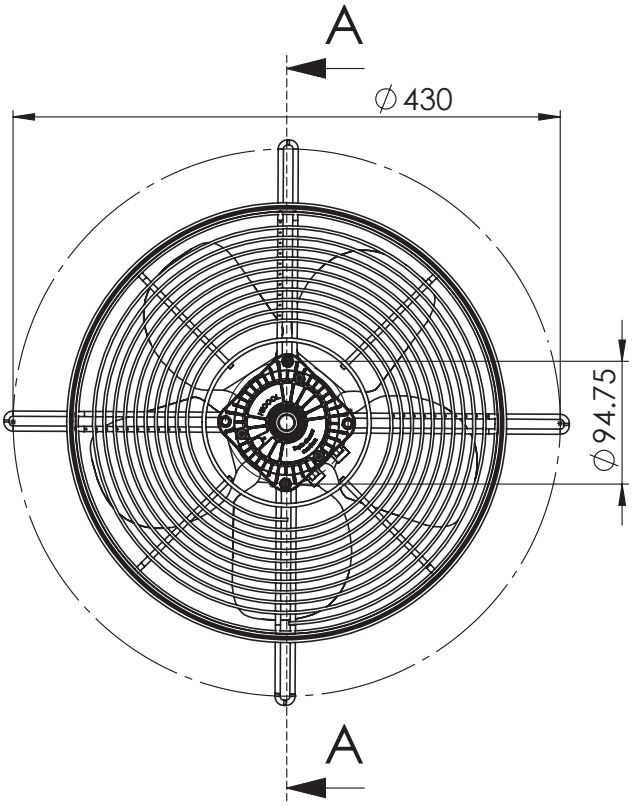
Note:
- **Weight mentioned is for the pack size.**

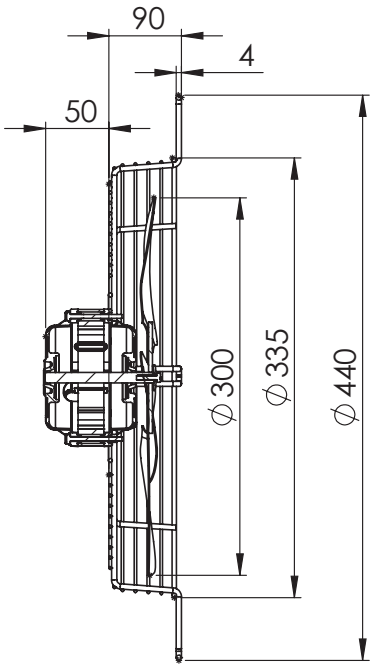


Elevator Cabin Fans

Elevator Cabin Fans

Model	Voltage (VAC)	Frequency (Hz)	Current (A)	Speed (RPM)	Power (W)	Fan Blade	Airflow (M^3/hr)
83A230SAC-10-EF	230	50	0.35	1200	55	300/22°	1100

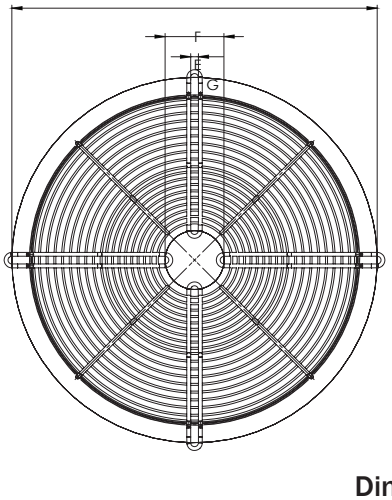


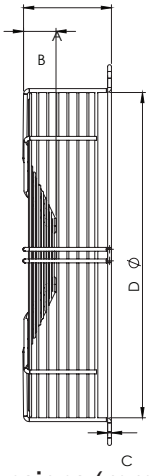


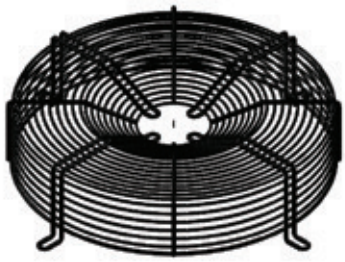
Accessories

Accessories

Axial Fan Basket Grill



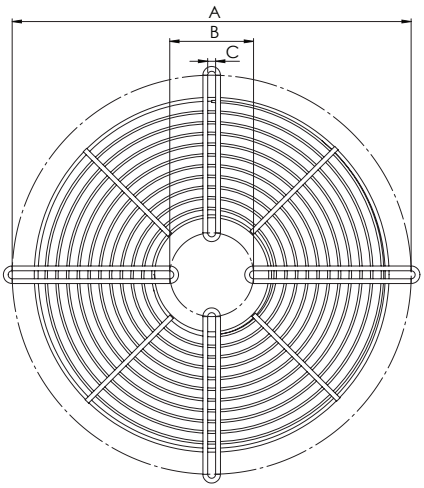


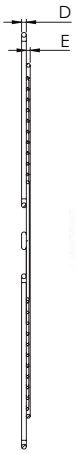


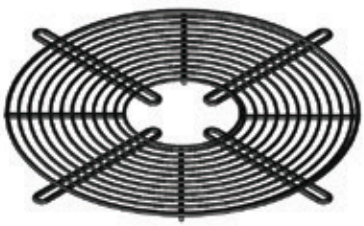
Dimensions (mm)

Model	Size	A	B	C	D	E	F	G
BGA 200	200 mm	45	-	4	220	58.5	265	8
BGA 250	250 mm	55	-	4	275	58.5	325	8
BGA 300	300 mm	85	30	4	320	58.5	375	8.5
BGA 350	350 mm	85	30	5	370	89.5	422	9.5
BGA 400	400 mm	90	30	5	420	89.5	470	9.5
BGA 450	450 mm	90	30	6	470	89.5	525	9.5
BGA 500	500 mm	90	30	6	520	120	570	10.5
BGA 550	550 mm	100	30	6	570	120	622	10.5
BGA 600	600 mm	100	30	7.5	620	120	680	10.5
BGA 630	630 mm	100	30	7.5	650	120	750	11.5

Axial Fan Flat Grill







Dimensions (mm)

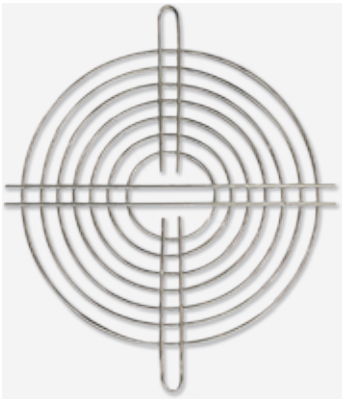
Model	Size	A	B	C	D	E
FGA 200	200 mm	265	58.5	8.5	4	3
FGA 250	250 mm	325	58.5	8.5	4	3
FGA 300	300 mm	365	58.5	8.5	4	3.5
FGA 350	350 mm	422	89.5	10	5	4
FGA 400	400 mm	470	89.5	10	5	4
FGA 450	450 mm	522	89.5	10	5	4
FGA 500	500 mm	570	120	11.5	6	4
FGA 550	550 mm	625	120	11.5	6	4
FGA 600	600 mm	680	120	11.5	7.5	4
FGA 630	630 mm	755	120	11.5	7.5	4

Also available in Stainless Steel

Accessories

Compact Fan Accessories

Plastic Finger Guards

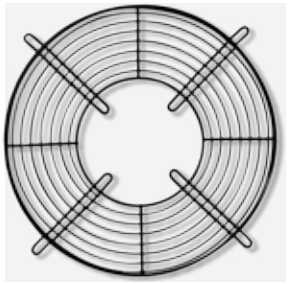


Metal Finger Guards - Chrome & Powder Coated

Q Motors Accessories

Aluminium Blades(sucking & blowing) available in dia 154,172,200,230,254&300mm.Pitch available from 19^0 upto 34^0

Bracket

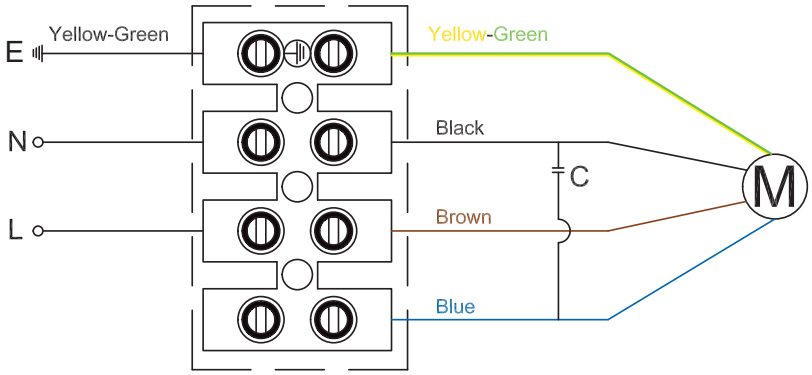


Basket Grill

Axial Fan Connection Diagrams

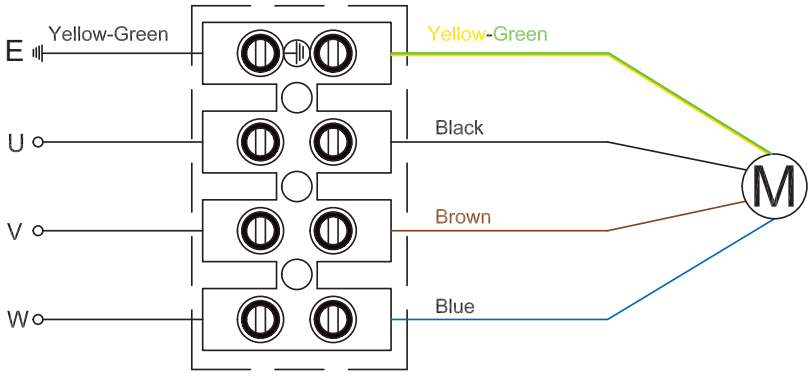
Model:-200-630mm / 225A-M / 280A-M / BCF / CFB

Single Phase



Model:-200-250mm

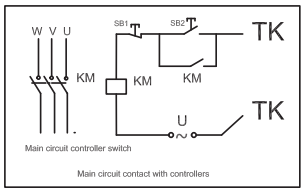
Three Phase

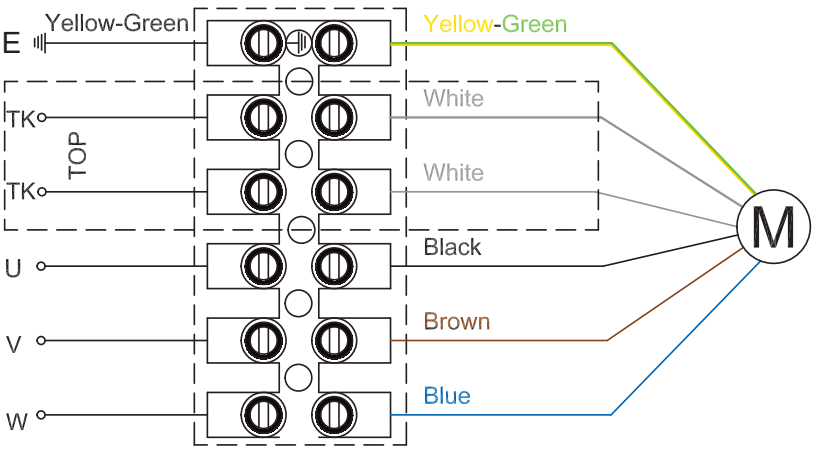


Note:- Direction of rotation is reversed by swapping two line phaser

Model:-300-630mm

Three Phase

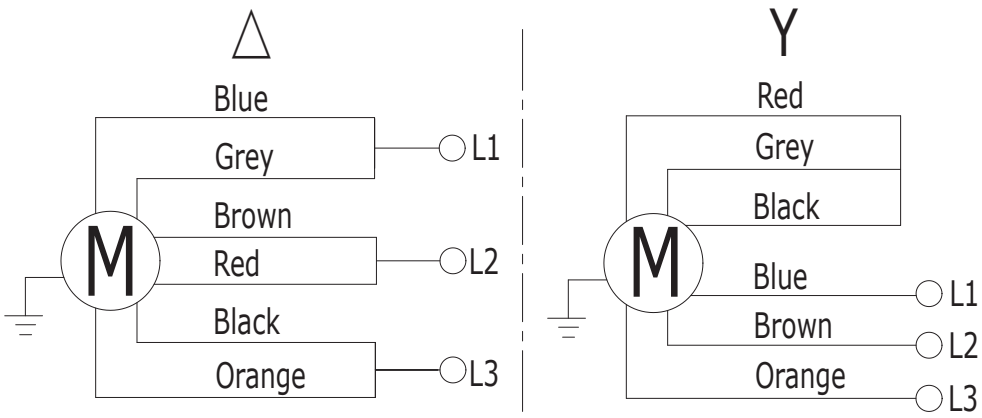




Note:- Direction of rotation is reversed by swapping two line phaser

Star Delta Connection Diagram

3-PHASE MOTOR WIRING DIAGRAM




Ludhiana
Delhi
Jaipur
Lucknow
Rajkot
Indore
Kolkata
Rourkela
Surat
Mumbai
Pune
Hyderabad
Bengaluru
Chennai
Kochi

Australia Greece Italy Kuwait Turkey

New Zealand Oman KSA Singapore Philippines

Sri Lanka UAE USA Egypt Iraq

Malaysia Qatar Thailand Nepal UK

Notes

Notes

HICOOL™

Air Moving Products

Corporate Headquarters

Hicool Electronic Industries
Plot No. A-104, TTC Industrial Area, MIDC,
Khairne, Navi Mumbai - 400 710,
Maharashtra, India.
Tel: +91 86575 52651
Email: sales@hicoolfans.com

Basecamp

Manufacturing Facility

Gut No. 36/1 & 37, Near Talegaon MIDC,
Jadhavwadi, Pune - 410 507, India.

Follow us on

www.hicoolfans.com