

# AIR MASTER SERIES

*Air Movement*

Australian Version | October 2013



[www.ceg.co](http://www.ceg.co)



# CEG

ELECTRIC MOTORS AND PUMPS

# AIR MASTER SERIES

AIR MOVEMENT



*CEG is an Australasian leader of electric motors and water pumps for the industrial and domestic market.*



Our products are used in almost every industrial activity, including water treatment, building services, chemical / petrochemicals, general processing and manufacturing where they drive fans, pumps, compressors and conveyors, to name just a selection of the vast applications.

We have extensive stocks of motors around New Zealand and Australia, backed up by a network of distributors, ensuring excellent local support and service wherever needed.

## AIR MASTER SERIES

The Air Master Series catalogue details the complete range and specifications of this series. The Air Master series of air movement motors includes types such as single and double shaft scroll fan motors, refrigeration series and external rotor basket fans. These include single speed 2, 4, 6 pole and also available in multispeed. They combine efficiency and excellent quality.

The Air Master Series range covers from 13W right through to 2.4kW. They are widely used in a diverse range of industrial, commercial and rural applications from heating and ventilation to refrigeration etc.

## QUALITY ASSURANCE

Stringent quality procedures are observed from initial design to the finished product, in accordance with the ISO9001 documented quality systems. This is a further assurance that only the highest possible standards of quality are accepted right through to final packaging.

## BENEFITS INCLUDE

- Diverse range
- Low noise levels
- Available in single and three phase
- Single and multi-speeds
- Wide range of accessories to suit most applications
- Continuous rated S1
- 12 month warranty



**5052 SERIES, FRIDGEMASTER SERIES**

Page 4-5

With proven reliability and performance the CEG 52 series motors have been designed for flexibility of application particularly in the areas of refrigeration and small fan applications.

**5085 SINGLE SHAFT ODP SERIES**

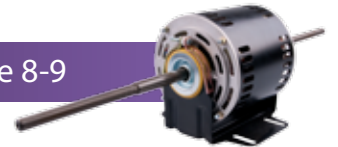
Page 6-7

The CEG 85 Series single shaft range of motors are designed for a variety of air movement applications, including ducted heating and evaporative cooling systems.

**5085 DOUBLE SHAFT ODP SERIES**

Page 8-9

The CEG 85 Series double shaft range of motor features include low temperature rise, enhanced efficiency and resilient mounting.

**5085 SINGLE SHAFT TEAOM SERIES**

Page 10-11

The Totally Enclosed CEG 85 Series motor range is designed for an assortment of outdoor applications, including condensing units and ventilation systems.

**ACCESSORIES 5085 SERIES**

Page 11-15

CEG offers a range of after market parts and accessories to enhance the 5085 series.

**5090 DOUBLE SHAFT HEAVY DUTY SERIES**

Page 16

The Double Shaft 90 Series is designed for high volume air applications. Flexibility in the design process enables motors to be manufactured to customer specified designs.

**5020 AXIAL FAN SERIES**

Page 17-26

CEG Axial grill external rotor fan assemblies combine the advantages of compact and space saving construction with the proven drive concept of a wear-free squirrel cage motor. With 13 frame sizes ranging from 200mm to 910mm are available with output powers of 29W to 2.4kW.

**5040 BACKWARDS CURVED RADIAL PLASTIC FAN SERIES** Coming Soon

These backward curved radial plastic fans are available in 2 models, 190 and 220 mm diameter, incorporating the highly efficient motor rotor. This range is designed for medium to high pressure development. Applications include Mini Roof Units, In-Line Centrifugal Fans, Range Hoods and others where pressure is a consideration.

**5050 BACKWARDS CURVED RADIAL ALUMINUM FAN SERIES** Coming Soon

These backward curved radial aluminum fans are available in 10 models, from 280mm - 720mm diameter, incorporating the highly efficient motor rotor. This range is designed for medium to high pressure development. Applications include Roof Units, In-Line Centrifugal Fans and other industrial applications where pressure is a consideration.

**5060 INLINE CENTRIFUGAL FAN SERIES**

Coming Soon

In Line Centrifugal Fans are available in three sizes 100, 150 and 200 mm. The range is designed for use with flexible or rigid ducting where pressure is a consideration and energy efficiency and low noise levels are required. Suitable for domestic and commercial applications where space is limited.



**CEG 52 FRIDGEMASTER SERIES MOTORS**

With proven reliability and performance the CEG 52 Series motors have been designed for flexibility of application particularly in the areas of refrigeration and small fan applications.

Importantly, the CEG 52 series offers a more efficient design being PSC over shaded pole motors. Also without the expensive price tag associated with brushless DC motors.

**FEATURES:**

- Efficient PSC design
- Bidirectional
- Standard shaft and hub drive
- Totally enclosed
- Universal mounting arrangement
- Auto reset overload
- Capacitor supplied
- Hex and Phillips head mounting screws supplied
- Distinctive snap-n-fit four-in-one design (40 watt version)
- 12 month warranty

| CEG CODE        | REPLACES FASCO/BETTS    | REPLACES KULTHORN  | REPLACES BRINSMEAD |
|-----------------|-------------------------|--------------------|--------------------|
| 5052-54001T-N02 | 30D501-80A / 50D501-80A | KL10D / KJB2M4701  | BLD13-11A          |
| 5052-54002T-N02 | 30D502-80A / 50D502-80A | KL20D / KJB2P4700  | BLD20-11A          |
| 5052-54004T-N02 | 30D503-80A / 50D503-80A | KL40DB / KJF2F4700 | BLD40-11A          |





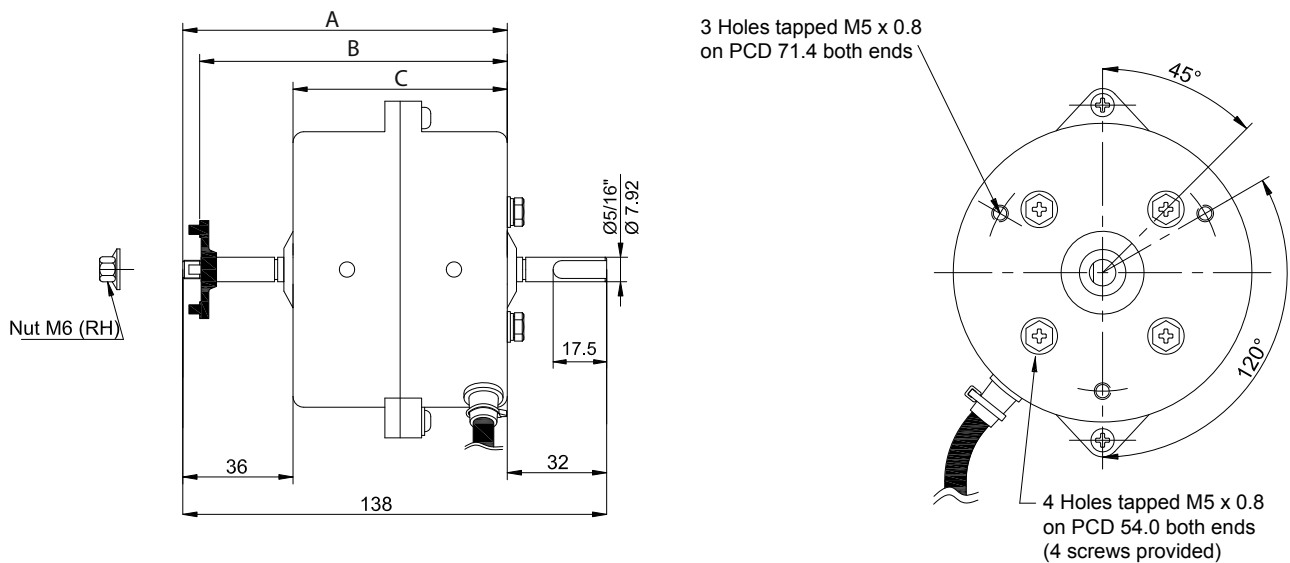
## PERFORMANCE DATA

| CEG CODE        | GENERAL   |                |      |            |                |                 | ELECTRICAL |              |         |
|-----------------|-----------|----------------|------|------------|----------------|-----------------|------------|--------------|---------|
|                 | WATTS OUT | FULL LOAD AMPS | RPM  | REVERSIBLE | SUITS FAN DIA. | SUITS FAN PITCH | CAP SIZE   | CAP SUPPLIED | VOLTAGE |
| 5052-54001T-N02 | 13        | 0.15           | 1350 | YES        | 229            | 40°             | 2µf/440V   | YES          | 240     |
| 5052-54002T-N02 | 20        | 0.25           | 1300 | YES        | 254            | 40°             | 2µf/440V   | YES          | 240     |
| 5052-54004T-N02 | 40        | 0.50           | 1300 | YES        | 275            | 40°             | 2µf/440V   | YES          | 240     |

Fan selections are based on 5 blade propeller style fans and are a guide only. Check fan curves prior to selecting alternate style fans.

## DIMENSIONS

| CEG CODE        | DIMENSIONS |      |    |
|-----------------|------------|------|----|
|                 | A          | B    | C  |
| 5052-54001T-N02 | 106        | 98.5 | 70 |
| 5052-54002T-N02 | 106        | 98.5 | 70 |
| 5052-54004T-N02 | 106        | 98.5 | 70 |



**Note:** All dimensions in millimetres

The CEG 85 Series single shaft range of motors are designed for a variety of air movement applications, including ducted heating and evaporative cooling systems.

All motors in the range are designed to industry standard, allowing them to be directly interchangeable with existing motors.

Flexibility in the design process enables motors to be manufactured to customer specified designs, including low harmonic variable speed applications.

**FEATURES:**

- Low noise bearings
- Designed to international standards
- Long bearing life
- Interchangeable with other brands
- Permanent split capacitor design
- Resilient mount (cradle not supplied)
- Dynamically balanced rotors
- Auto reset thermal overload
- 3 speed tapped winding
- Design suitable for Triac control available on request
- Certified to CE requirements for European markets
- Cradle available as an accessory

| CEG CODE        | REPLACES FASCO/BETTS                        | REPLACES KULTHORN |
|-----------------|---|-------------------|
| 5085-55031V-B02 | 8061S109-03 / 8061S109-07 / 808555NVA - A13 | HF2J4701K         |
| 5085-55060V-B02 | 8061S082-03 / 8061S082-17 / 8061S082-24     | KHF2T4703         |
| 5085-55075V-B02 | 8061S128-02 / 8061S128-06                   | -                 |



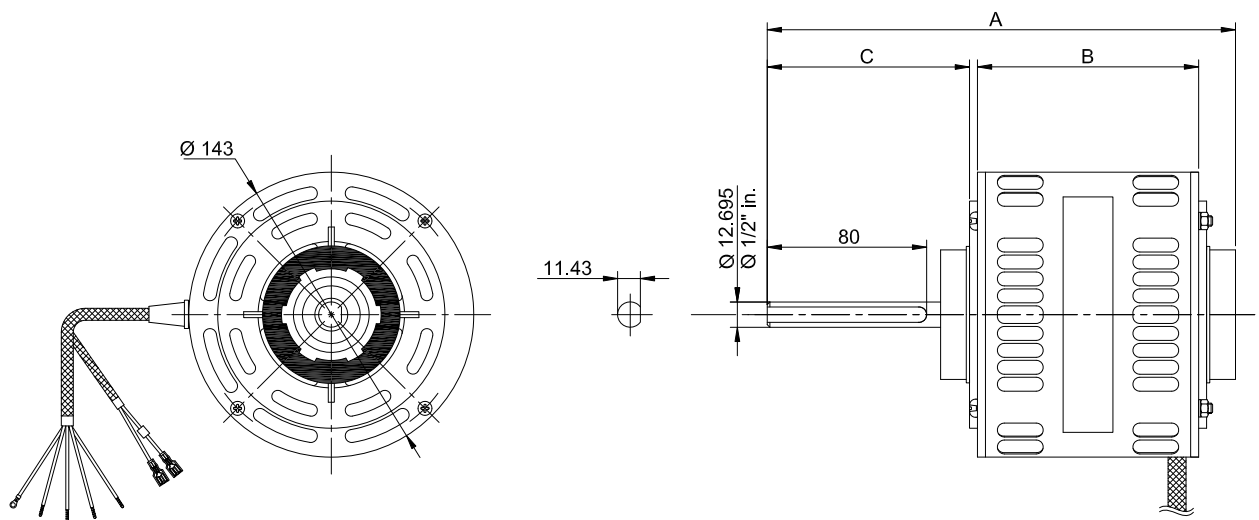
## PERFORMANCE DATA

| CODE            | GENERAL   |                |         |       |                             |            | ELECTRICAL |              |         |
|-----------------|-----------|----------------|---------|-------|-----------------------------|------------|------------|--------------|---------|
|                 | WATTS OUT | FULL LOAD AMPS | MAX RPM | SPEED | STANDARD ROTATION DIRECTION | REVERSIBLE | CAP SIZE   | CAP SUPPLIED | VOLTAGE |
| 5085-55031V-B02 | 290       | 2.6            | 1337    | Multi | CW                          | NO         | 2µF/440V   | YES          | 240     |
| 5085-55031V-B02 | 315       | 2.5            | 1350    | Multi | CW                          | NO         | 4µF/440V   | YES          | 240     |
| 5085-55031V-B02 | 350       | 2.5            | 1360    | Multi | CW                          | NO         | 6µF/440V   | YES          | 240     |
| 5085-55031V-B02 | 365       | 2.7            | 1366    | Multi | CW                          | NO         | 8µF/440V   | YES          | 240     |
| 5085-55031V-B02 | 425       | 3.5            | 1300    | Multi | CW                          | NO         | 10µF/440V  | YES          | 240     |
| 5085-55060V-B02 | 600       | 4.4            | 1200    | Multi | CW                          | NO         | 15µF/440V  | YES          | 240     |
| 5085-55075V-B02 | 750       | 4.9            | 1360    | Multi | CW                          | NO         | 20µF/440V  | YES          | 240     |

**Note:** direction of rotation is viewed from shaft end.

## DIMENSIONS

| CODE            | DIMENSIONS |     |     |
|-----------------|------------|-----|-----|
|                 | A          | B   | C   |
| 5085-55031V-B02 | 236        | 119 | 101 |
| 5085-55060V-B02 | 260        | 144 | 101 |
| 5085-55075V-B02 | 260        | 144 | 101 |



**Note:** All dimensions in millimetres

The CEG 85 Series double shaft range of motor features include low temperature rise, enhanced efficiency and resilient mounting.

The range has been designed for a variety of air movement applications, including reverse cycle air conditioning units and circulation fan systems.

Industry standard design is a feature of all motors in the range, allowing for interchangeability with existing motors.

Flexibility in the design process enables motors to be manufactured to customer specified designs.

**FEATURES:**

- Low noise bearings
- Designed to international standards
- Long bearing life
- Interchangeable with other brands
- Permanent split capacitor design
- Design suitable for Triac control available on request
- Resilient mount with cradle
- Dynamically balanced rotors
- Auto reset thermal overload
- 3 speed tapped winding
- 4 and 6 pole
- Certified to CE requirements for European markets

| CEG CODE        | REPLACES FASCO/BETTS                                 | REPLACES KULTHORN |
|-----------------|--|-------------------|
| 5085-55008T-C02 | 8061S111-80  | -                 |
| 5085-55010V-C02 | 8061A083-80  | -                 |
| 5085-55013V-C02 | 8061S122-80  | KHF2D4701         |
| 5085-55025V-C02 | 8061S019-80  | KHF2F4701         |
| 5085-55031V-C02 | 8061S109-01, 8061S109-04, 808555NVA-A16, 8061S109-80 | HF2J4702K         |
| 5085-55060V-C02 | 8061S082-80, 8031S082-15, 808555PVA-A11              | HF2T4702K         |
| 5085-55075V-C02 | 8061S128-80, 808555QVA-A11                           | KHF2T4704         |
| 5085-55004V-C02 | 8061S134-80  | -                 |
| 5085-57020V-C02 | 8061S004-80  | -                 |





## PERFORMANCE DATA

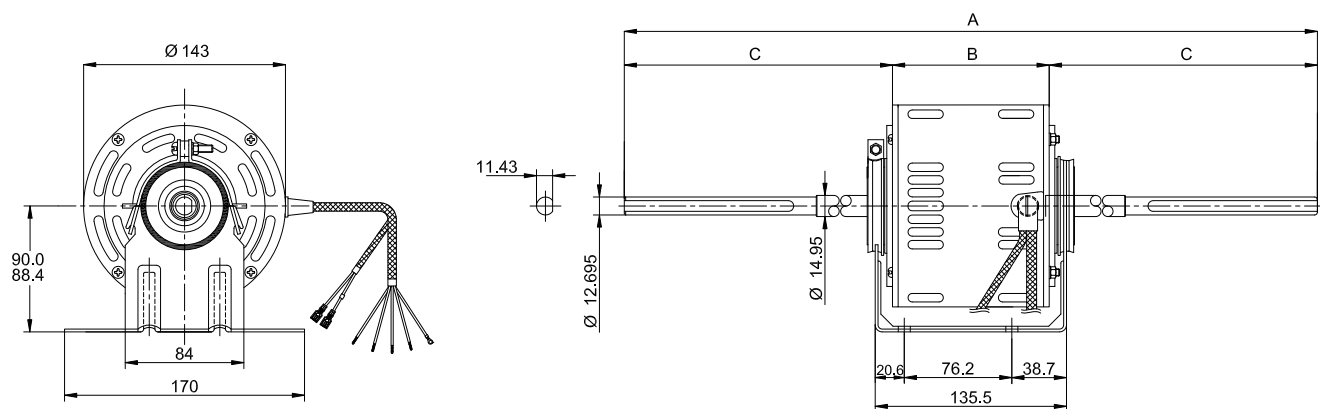
| CODE            | GENERAL   |                |          |       |                             |            | ELECTRICAL |              |          |
|-----------------|-----------|----------------|----------|-------|-----------------------------|------------|------------|--------------|----------|
|                 | WATTS OUT | FULL LOAD AMPS | HIGH RPM | SPEED | STANDARD ROTATION DIRECTION | REVERSIBLE | CAP SIZE   | CAP SUPPLIED | VOLT-AGE |
| 5085-55008T-C02 | 80        | 0.8            | 1350     | Multi | CW                          | YES        | 4µF/440V   | YES          | 240      |
| 5085-55010V-C02 | 100       | 1.1            | 1370     | Multi | ACW                         | YES        | 2µF/440V   | YES          | 240      |
| 5085-55013V-C02 | 130       | 1.2            | 1370     | Multi | ACW                         | YES        | 4µF/440V   | YES          | 240      |
| 5085-55025V-C02 | 250       | 1.8            | 1300     | Multi | CW                          | YES        | 6µF/440V   | YES          | 240      |
| 5085-55031V-C02 | 290       | 2.6            | 1337     | Multi | ACW                         | YES        | 2µF/440V   | YES          | 240      |
| 5085-55031V-C02 | 315       | 2.5            | 1350     | Multi | ACW                         | YES        | 4µF/440V   | YES          | 240      |
| 5085-55031V-C02 | 350       | 2.5            | 1360     | Multi | ACW                         | YES        | 6µF/440V   | YES          | 240      |
| 5085-55031V-C02 | 365       | 2.7            | 1366     | Multi | ACW                         | YES        | 8µF/440V   | YES          | 240      |
| 5085-55031V-C02 | 425       | 3.5            | 1300     | Multi | ACW                         | YES        | 10µF/440V  | YES          | 240      |
| 5085-55060V-C02 | 600       | 4.0            | 1330     | Multi | ACW                         | YES        | 15µF/440V  | YES          | 240      |
| 5085-55075V-C02 | 750       | 4.9            | 1360     | Multi | ACW                         | YES        | 20µF/440V  | YES          | 240      |
| 5085-57004T-C02 | 40        | 0.5            | 900      | Multi | CW                          | YES        | 2µF/440V   | YES          | 240      |
| 5085-57020V-C02 | 200       | 2.0            | 890      | Multi | ACW                         | YES        | 4µF/440V   | YES          | 240      |

**Note:** direction of rotation is viewed from the lead end

## DIMENSIONS

| CODE             | DIMENSIONS |     |     |
|------------------|------------|-----|-----|
|                  | A          | B   | C   |
| 5085-55008T-C02* | 458        | 94  | 182 |
| 5085-55010V-C02  | 493        | 93  | 200 |
| 5085-55013V-C02  | 450        | 94  | 178 |
| 5085-55025V-C02  | 517        | 99  | 209 |
| 5085-55031V-C02  | 555        | 111 | 222 |
| 5085-55060V-C02  | 543        | 136 | 203 |
| 5085-55075V-C02  | 610        | 136 | 237 |
| 5085-57004T-C02* | 610        | 100 | 255 |
| 5085-57020V-C02  | 520        | 112 | 204 |

\*Totally enclosed



**Note:** All dimensions in millimetres

The Totally Enclosed CEG 85 Series motor range is designed for an assortment of outdoor applications, including condensing units and ventilation systems.

As is a feature of many of the CEG series motors, the 5085 series is designed to industry standards. This allows them to be directly interchangeable with existing motors.

Flexibility in the design process enables motors to be manufactured to customer specified designs.

### FEATURES:

- Low noise bearings
- Designed to international standards
- Long bearing life
- Interchangeable with other brands
- 4 and 6 pole
- Design suitable for Triac control available on request
- Permanent split capacitor design
- Totally enclosed
- Dynamically balanced rotors
- Auto reset thermal overload on 1 and 3 phase motors
- Certified to CE requirements for European markets

| CEG CODE         | REPLACES FASCO/BETTS       | REPLACES KULTHORN |
|------------------|----------------------------|-------------------|
| 5085-54018X-M02  | 808554LTB-A80 / 6105072-80 | KHF2F4702         |
| 5085-34018X-M02  | 808534LTN-A12              | -                 |
| 5085-34018X-F02  | 8061S107-02                | -                 |
| 5085-57015X-M02  | 808557KTB-A11 / 61S059-80  | HF3G4701K         |
| 5085-56025X-M02  | 8061S137-80                | KHF3J4702         |
| 5085-56025T-M02  | 8061S009-06                | -                 |
| 5085-57030T-M02  | 8061S118-02 / 8061S118-03  | -                 |
| 5085-56037X-M02  | 8061S120-80                | HF3Q4700K         |
| 5085-55042T-B02  | 8061S079-02                | -                 |
| 5085-36025X-M02  | 808536MTB-A11 / 61S124-80  | -                 |
| 50 85-36037T-B02 | 8061S121-80                | -                 |





## PERFORMANCE DATA

| CODE             | GENERAL   |                |          |        |                             |            |                |                 | ELECTRICAL |              |         |
|------------------|-----------|----------------|----------|--------|-----------------------------|------------|----------------|-----------------|------------|--------------|---------|
|                  | WATTS OUT | FULL LOAD AMPS | HIGH RPM | SPEED  | STANDARD ROTATION DIRECTION | REVERSIBLE | SUITS FAN DIA. | SUITS FAN PITCH | CAP SIZE   | CAP SUPPLIED | VOLTAGE |
| 5085-54018X-M02  | 180       | 1.25           | 1380     | Single | CW                          | YES        | 406            | 25°             | 4µF/440V   | YES          | 240     |
| 5085-34018X-M02  | 180       | 0.75           | 1400     | Single | CW                          | YES        | 406            | 25°             | NIL        | N/A          | 415     |
| 5085-34018X-F02  | 180       | 0.75           | 1400     | Single | CW                          | YES        | 406            | 25°             | NIL        | N/A          | 415     |
| 5085-57015X-M02  | 150       | 1.2            | 900      | Multi  | CW                          | YES        | 457            | 40°             | 6µF/440V   | YES          | 240     |
| 5085-56025X-M02  | 250       | 2.3            | 910      | Single | ACW                         | YES        | 508            | 40°             | 4µF/440V   | YES          | 240     |
| 5085-56025T-M02* | 250       | 2.6            | 915      | Single | CW                          | NO         | 508            | 40°             | 6µF/440V   | YES          | 240     |
| 5085-57030T-M02* | 300       | 2.7            | 910      | Multi  | CW                          | NO         | 559            | 30°             | 6µF/440V   | YES          | 240     |
| 5085-56037X-M02  | 370       | 2.9            | 900      | Single | CW                          | YES        | 559            | 35°             | 8µF/440V   | YES          | 240     |
| 5085-55042T-B02* | 425       | 2.5            | 1200     | Multi  | CW                          | NO         | 457            | 35°             | 15µF/440V  | YES          | 240     |
| 5085-36025X-M02  | 250       | 0.95           | 900      | Single | CW                          | YES        | 508            | 40°             | NIL        | N/A          | 415     |
| 5085-36037T-B02* | 370       | 1.1            | 890      | Single | CW                          | YES        | 559            | 35°             | NIL        | N/A          | 415     |

Fan selections are based on 5 blade propeller style fans and are a guide only. Check fan curves prior to selecting alternate style fans.

**Note:** direction or rotation is viewed from shaft end.

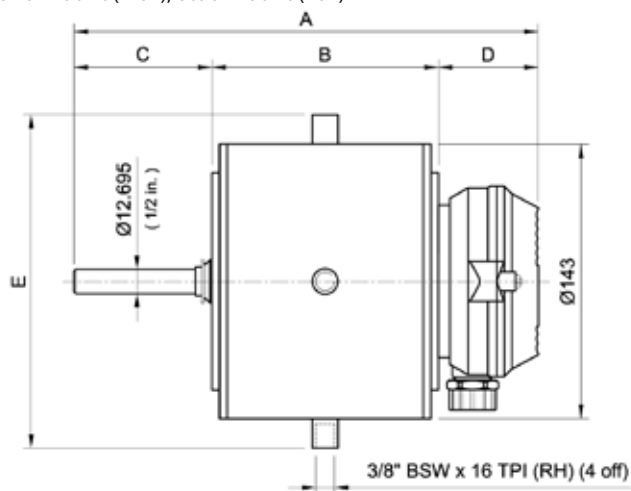
## DIMENSIONS

| CODE             | DIMENSIONS |     |    |     |     |
|------------------|------------|-----|----|-----|-----|
|                  | A          | B   | C  | D   | E   |
| 5085-54018X-M02  | 230        | 103 | 70 | 57  | -   |
| 5085-34018X-M02  | 232        | 103 | 72 | 57  | -   |
| 5085-34018X-F02  | 232        | 103 | 72 | 57  | 176 |
| 5085-57015X-M02  | 234        | 115 | 62 | 57  | -   |
| 5085-56025X-M02  | 258        | 127 | 74 | 57  | -   |
| 5085-56025T-M02* | 211        | 132 | 79 | N/A | -   |
| 5085-57030T-M02* | 207        | 145 | 62 | N/A | -   |
| 5085-56037X-M02  | 267        | 140 | 70 | 57  | -   |
| 5085-55042T-B02* | 230        | 146 | 80 | N/A | -   |
| 5085-36025X-M02  | 253        | 122 | 74 | 57  | -   |
| 5085-36037T-B02* | 205        | 131 | 60 | N/A | -   |

\*Motors not fitted with a terminal box

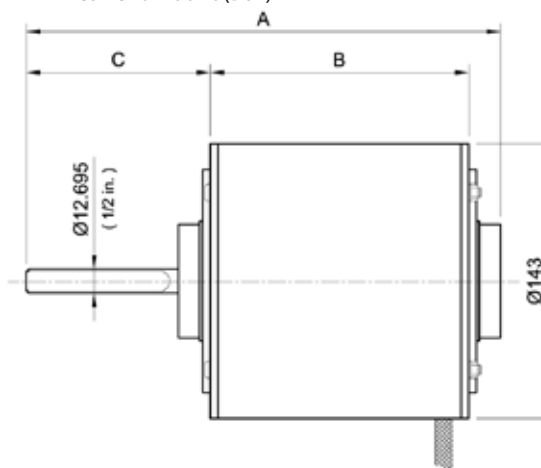
### 5085 TOTALLY ENCLOSED

Band Mount (M02), Stud Mount (F02)



### 5085 TOTALLY ENCLOSED

Resilient Mount (B02)



**Note:** All dimensions in millimetres

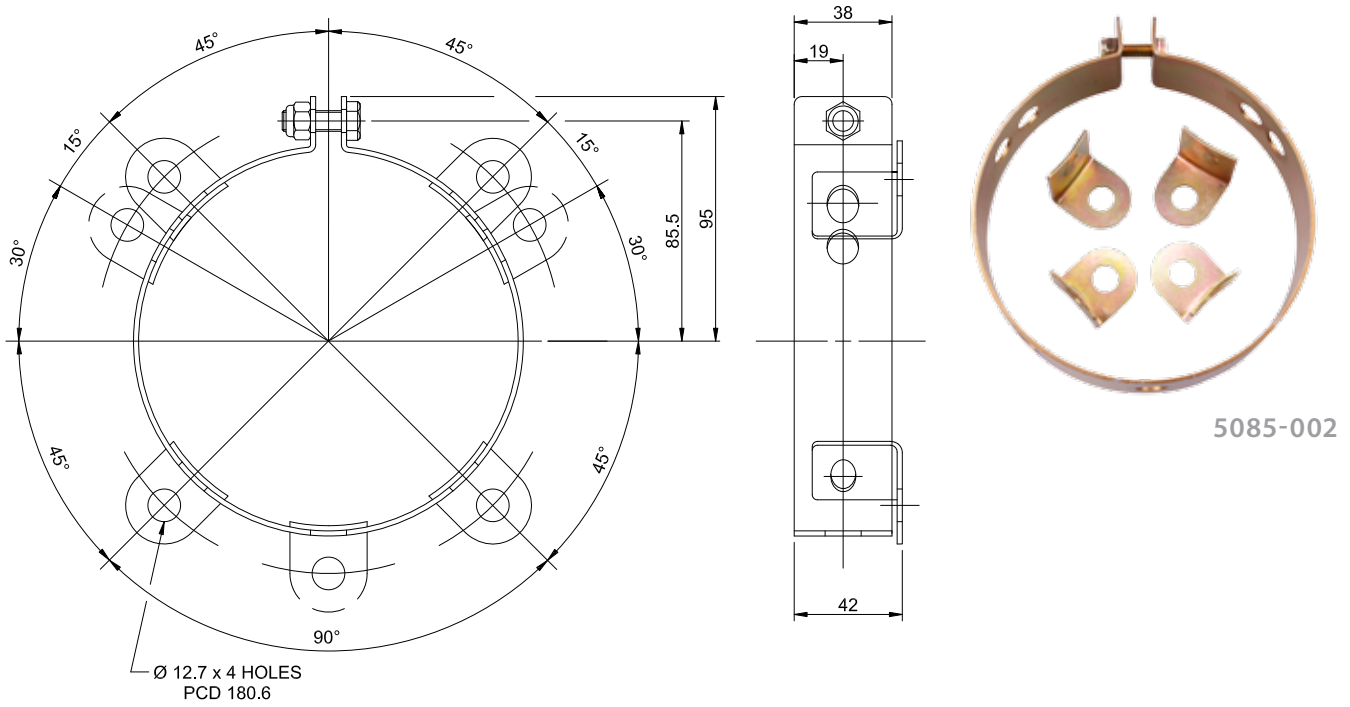


ACCESSORIES

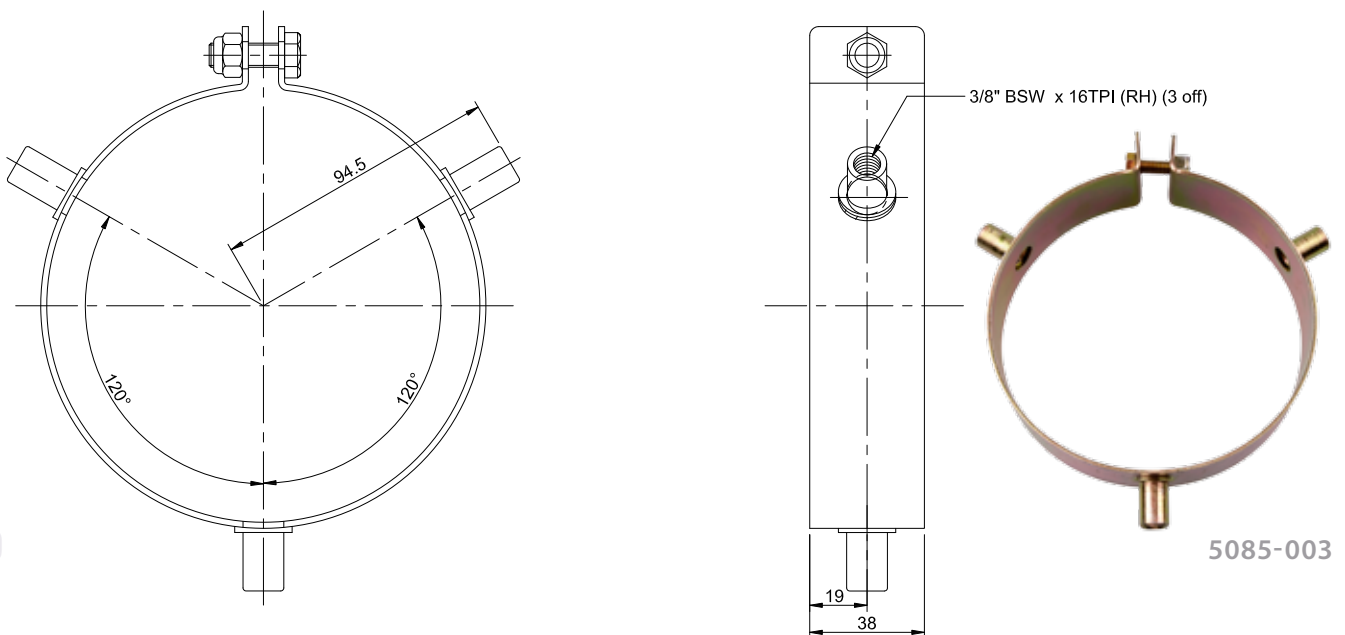
CEG offers a range of after market parts and accessories to enhance the 5085 series.

Accessories available include a range of cradles to provide flexible mounting options, and rain shields to provide extra protection against water ingress in vertical shaft-up applications.

MOUNTING BRACKET MULTI LUG



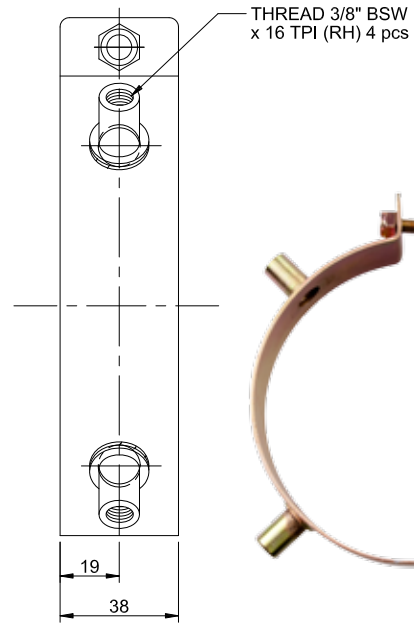
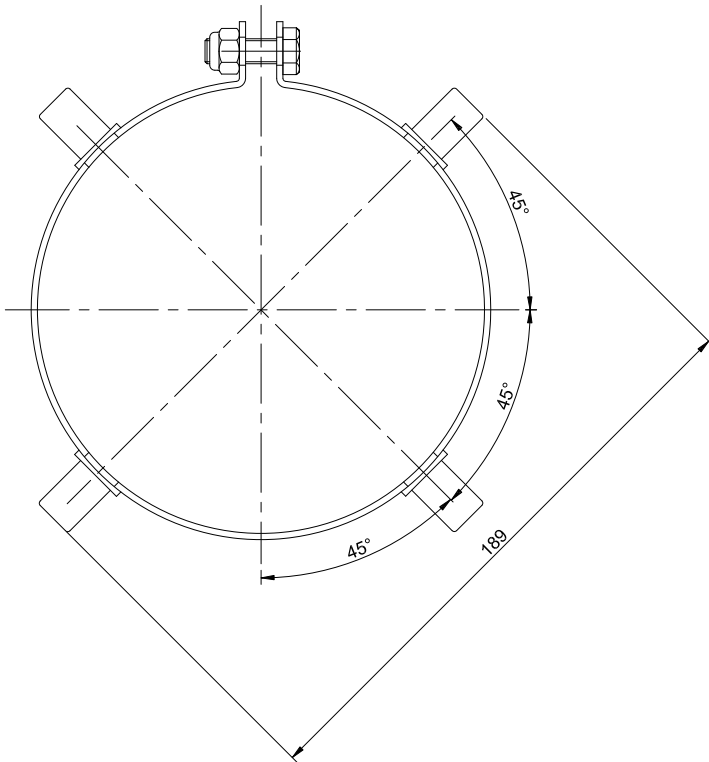
MOUNTING BRACKET 3 STUD



Note: All dimensions in millimetres

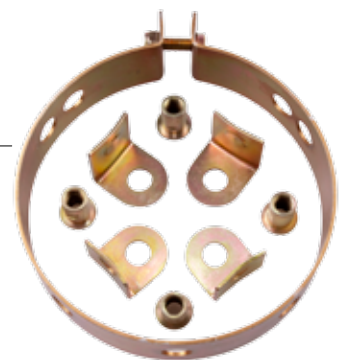
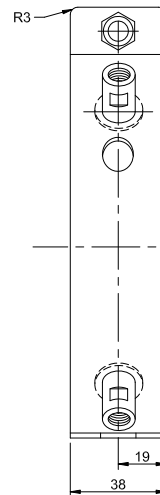
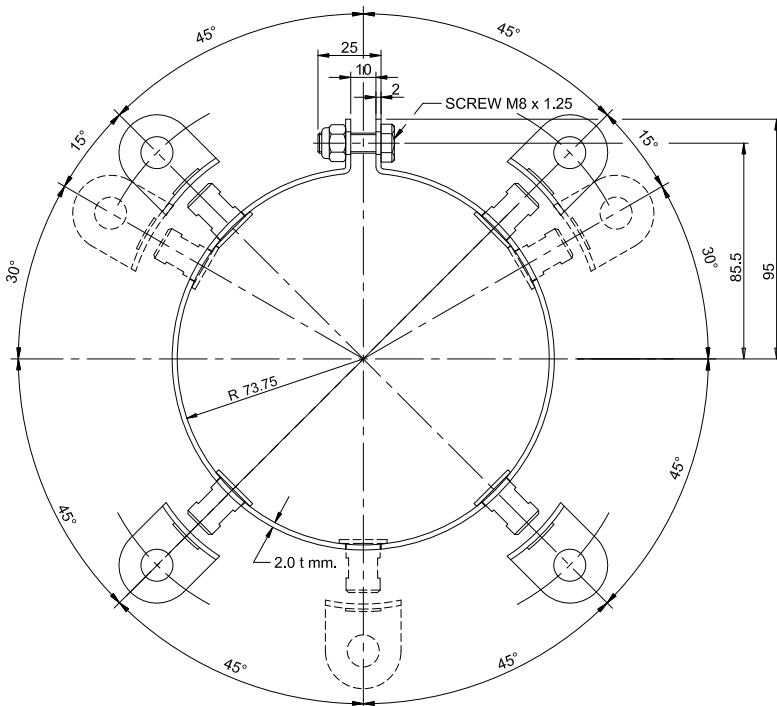


MOUNTING BRACKET 4 STUD



5085-004

MOUNTING BRACKET MULTI LUG AND STUD



5085-006

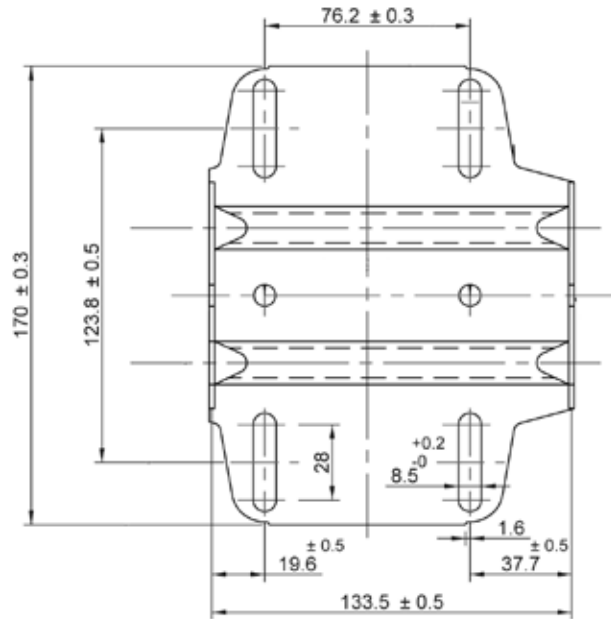
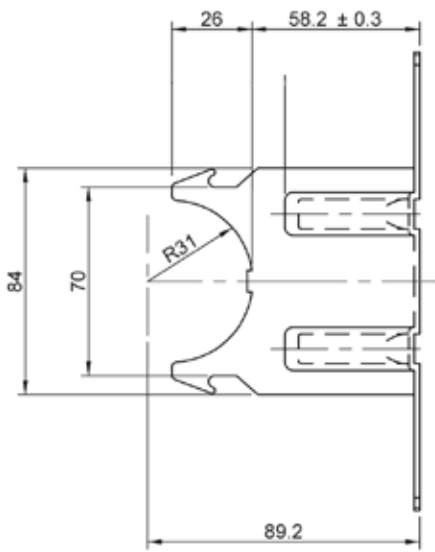
**Note:** All dimensions in millimetres





**MOUNTING CRADLE**

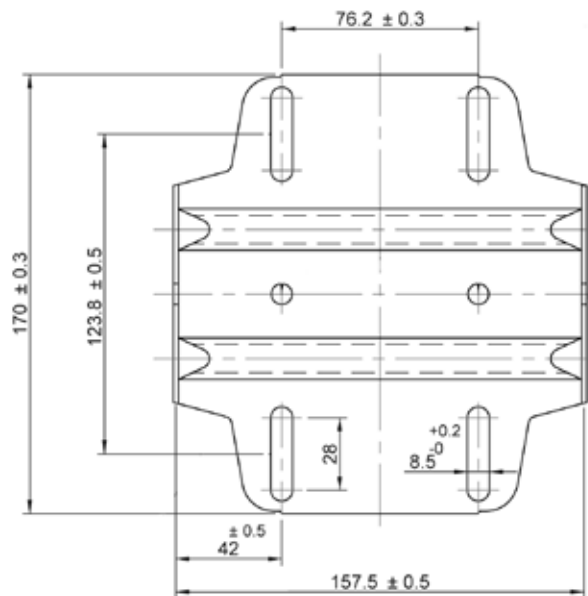
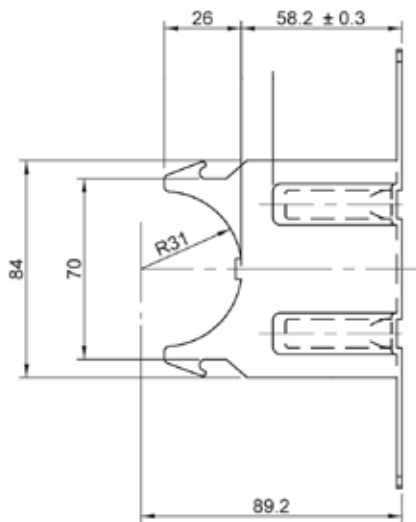
To suit all fan motors on page 9 and model 5085-55031V-B01 page 7



5085-008

**MOUNTING CRADLE**

To suit all fan motors model 5085-55060V-B02 and 5085-55075V-B02 page 7



5085-009

**Note:** All dimensions in millimetres

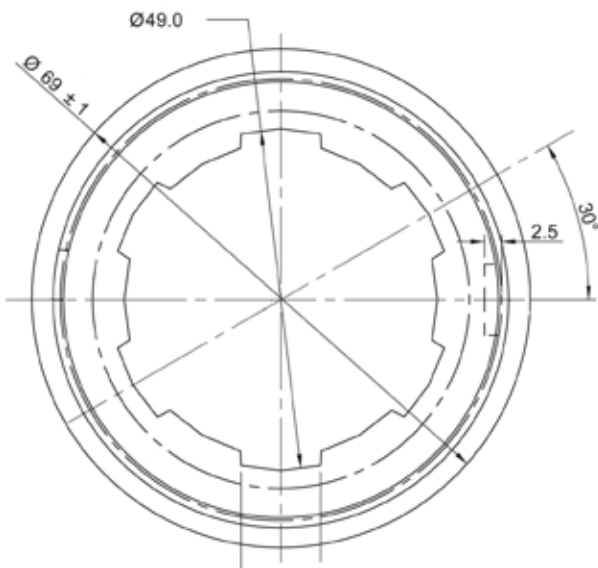


TERMINAL BOX



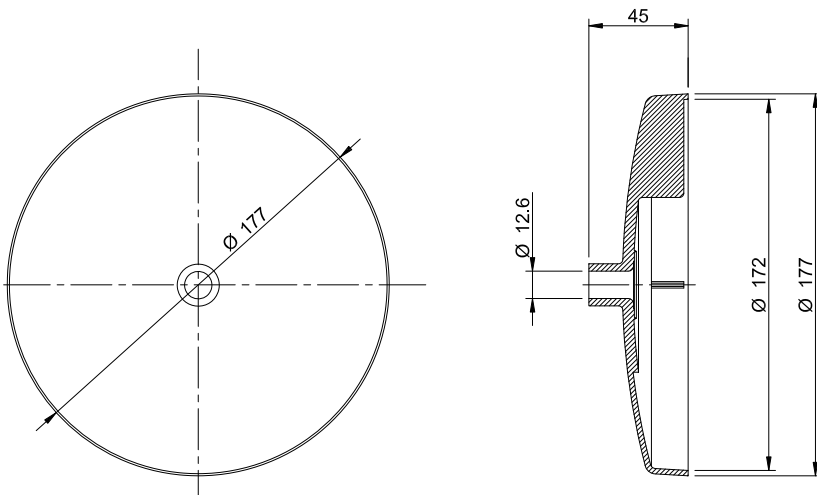
5085-005

RESILIENT RUBBER MOUNT



5085-010

RAIN SHIELD



5085-001

**Note:** All dimensions in millimetres

The Double Shaft 90 Series is designed for high volume air applications. Flexibility in the design process enables motors to be manufactured to customer specified designs.

### FEATURES:

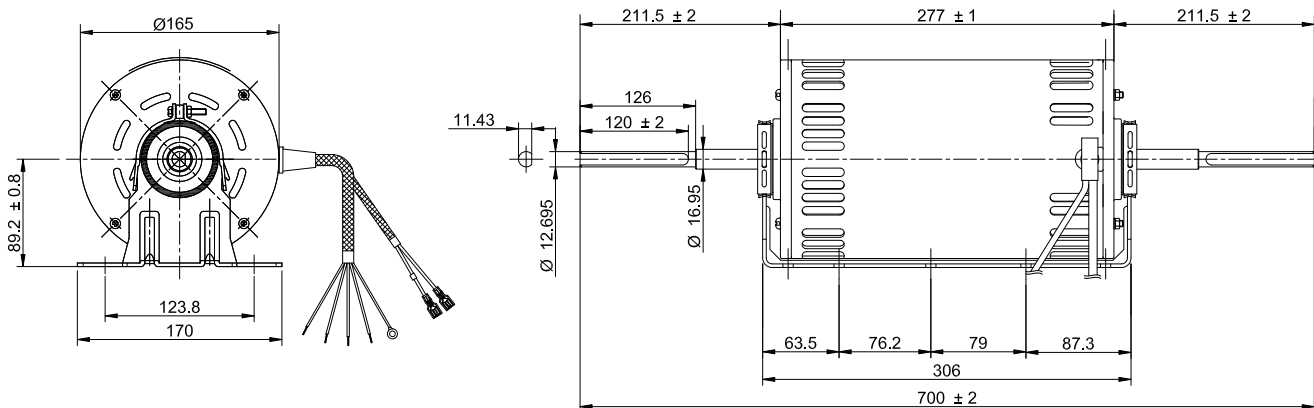
- Low noise bearings
- Dynamically balanced rotors
- Resilient mount with cradle
- Permanent split capacitor design
- Interchangeable with other brands
- Multispeed
- 4 pole

### MOTORSPECIFICATIONS

| CEG PRODUCT CODE | GENERAL   |                |          |       |                             |            | ELECTRICAL |              |         |
|------------------|-----------|----------------|----------|-------|-----------------------------|------------|------------|--------------|---------|
|                  | WATTS OUT | FULL LOAD AMPS | HIGH RPM | SPEED | STANDARD ROTATION DIRECTION | REVERSIBLE | CAP SIZE   | CAP SUPPLIED | VOLTAGE |
| 5090-55110V-C02  | 1100      | 5.4            | 1345     | Multi | ACW                         | YES        | 30µF/440V  | YES          | 240     |

| CEG PRODUCT CODE | REPLACES FASCO/BETTS                           |
|------------------|--|
| 5090-55110V-C02  | 809455SVB-B16/ 80945551/B-B16 / 809455SVA/B123 |

### DIMENSIONS



**Note:** All dimensions in millimetres



## 5020 AXIAL FAN SERIES

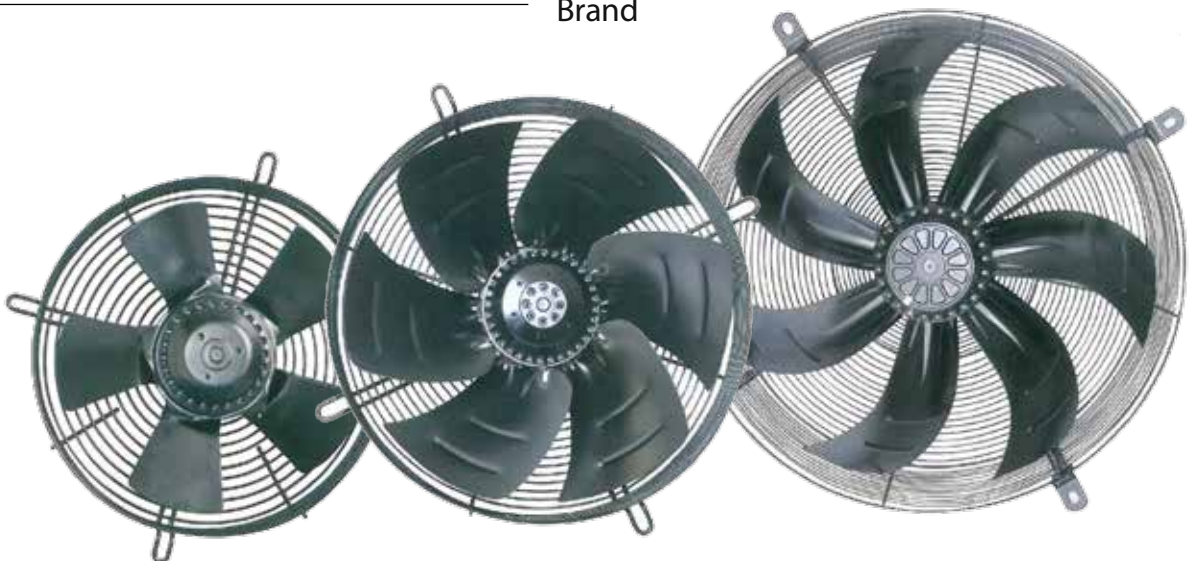
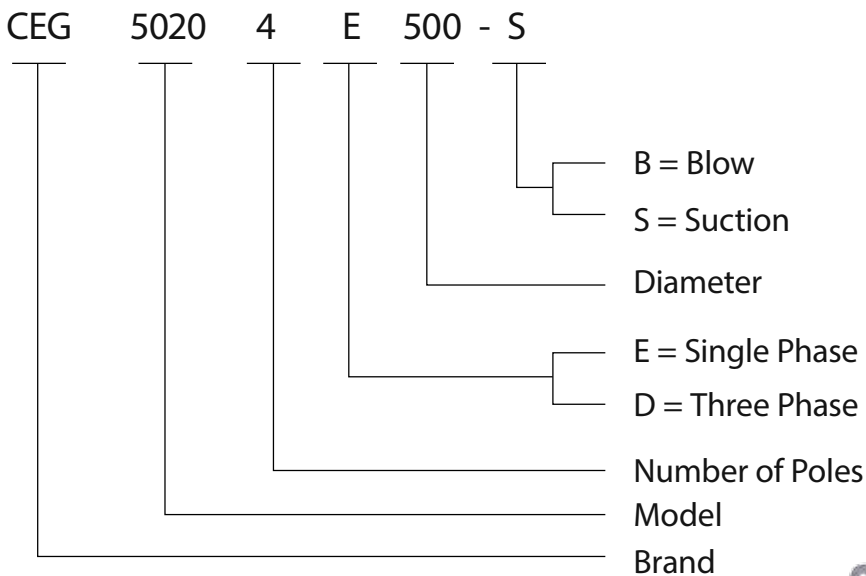
CEG Axial grill external rotor fan assemblies combine the advantages of compact and space saving construction with the proven drive concept of a wear-free squirrel cage motor. With 13 frame sizes ranging from 200mm to 910mm are available with output powers of 29W to 2.4kW.

They are effective in many applications extensively in air conditioning, refrigeration and ventilation markets.

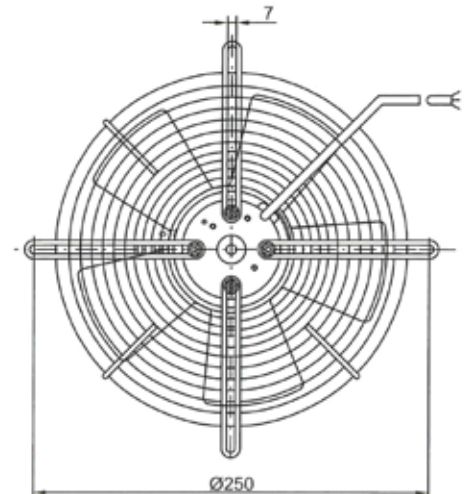
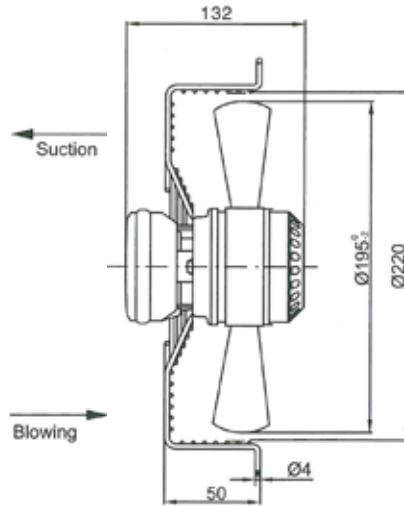
### FEATURES

- Balanced fan blades
- Easy access terminal box
- IP54 Protection
- Three phase available from 200mm – 910mm diameter
- Single phase available in 200mm – 630mm diameter
- Available in 2, 4 and 6 pole
- 230 volts 50Hz Single phase
- 400 volts 50Hz Three phase
- Continuous S1 duty rated
- Proven air flow performance
- Flexible mounting construction
- Blow and suction versions
- Efficient designs
- High temperature, long life ball bearings
- Corrosion protected motor and frame construction
- 200mm to 910mm diameter delivering airflows of 500 M3/h to 21,500 M3/h

### CODE SYSTEM

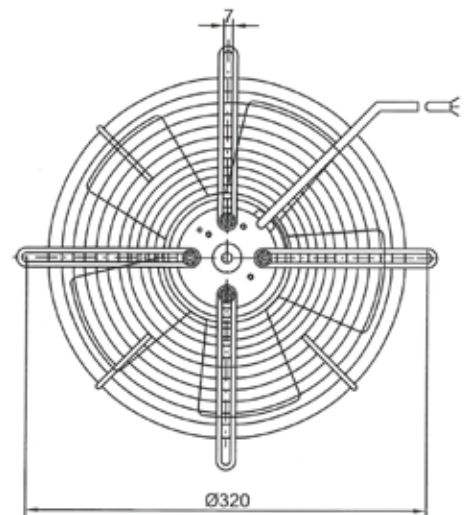
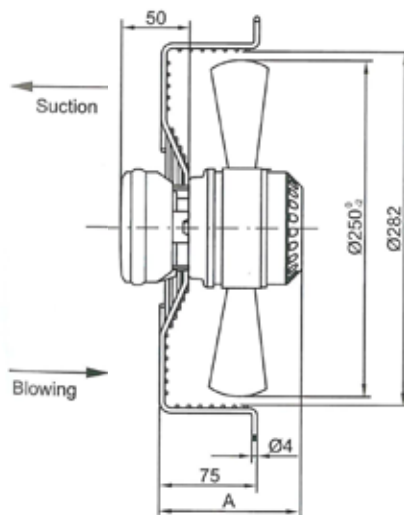


## 5020 AXIAL FAN SERIES 200MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (μF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 2E200 | 230         | 50             | 80              | 0.35        | 870                            | 2700          | 2              | 60          | 65                      | 1.9         |
| 5020 4E200 | 230         | 50             | 29              | 0.12        | 490                            | 1460          | 1              | 48          | 75                      | 1.9         |
| 5020 2D200 | 400         | 50             | 70              | 0.16        | 870                            | 2650          | /              | 60          | 75                      | 1.9         |

## 5020 AXIAL FAN SERIES 250MM

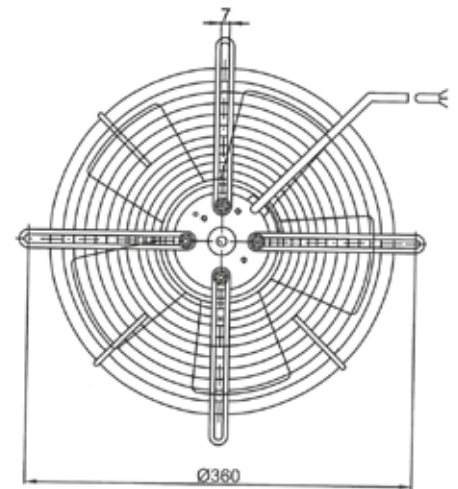
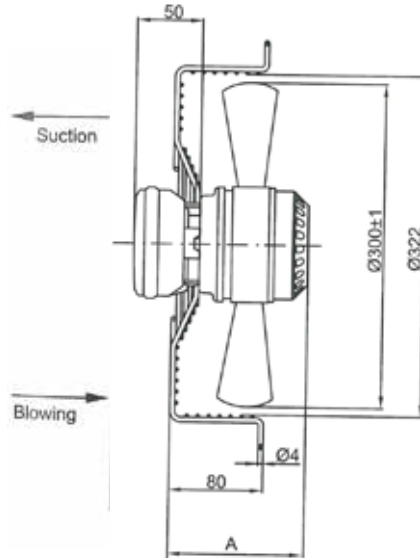


| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (μF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) | A   |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|-----|
| 5020 2E250 | 230         | 50             | 180             | 0.78        | 1800                           | 2500          | 4              | 68          | 65                      | 3.0         | 112 |
| 5020 4E250 | 230         | 50             | 50              | 0.22        | 1000                           | 1380          | 1.5            | 50          | 75                      | 2.5         | 104 |
| 5020 4D250 | 400         | 50             | 60              | 0.13        | 1000                           | 1350          | /              | 50          | 75                      | 2.7         | 102 |

**Note:** All dimensions in millimetres

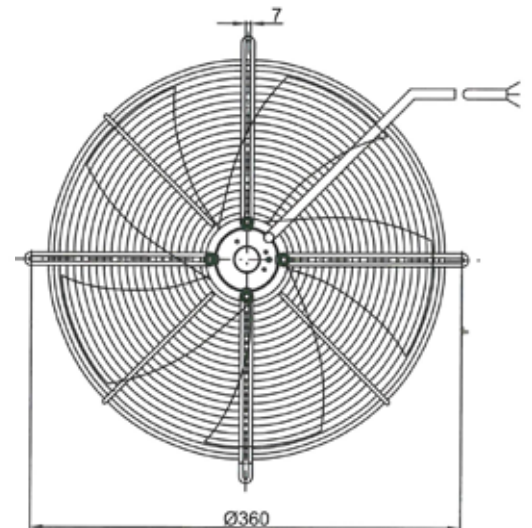
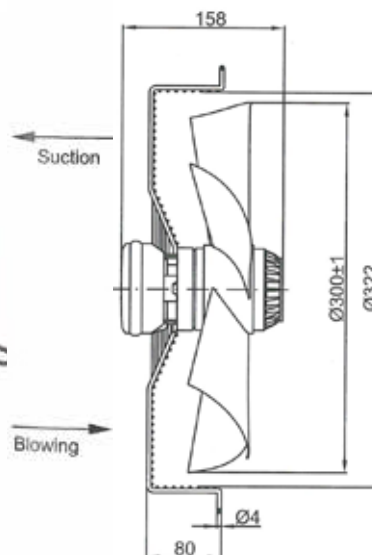


# 5020 AXIAL FAN SERIES 300MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) | A   |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|-----|
| 5020 4E300 | 230         | 50             | 90              | 0.38        | 1900                           | 1370          | 3              | 55          | 65                      | 3.2         | 112 |
| 5020 4D300 | 400         | 50             | 95              | 0.26        | 1950                           | 1400          | /              | 55          | 65                      | 4           | 120 |

# 5020 AXIAL FAN SERIES 300MM

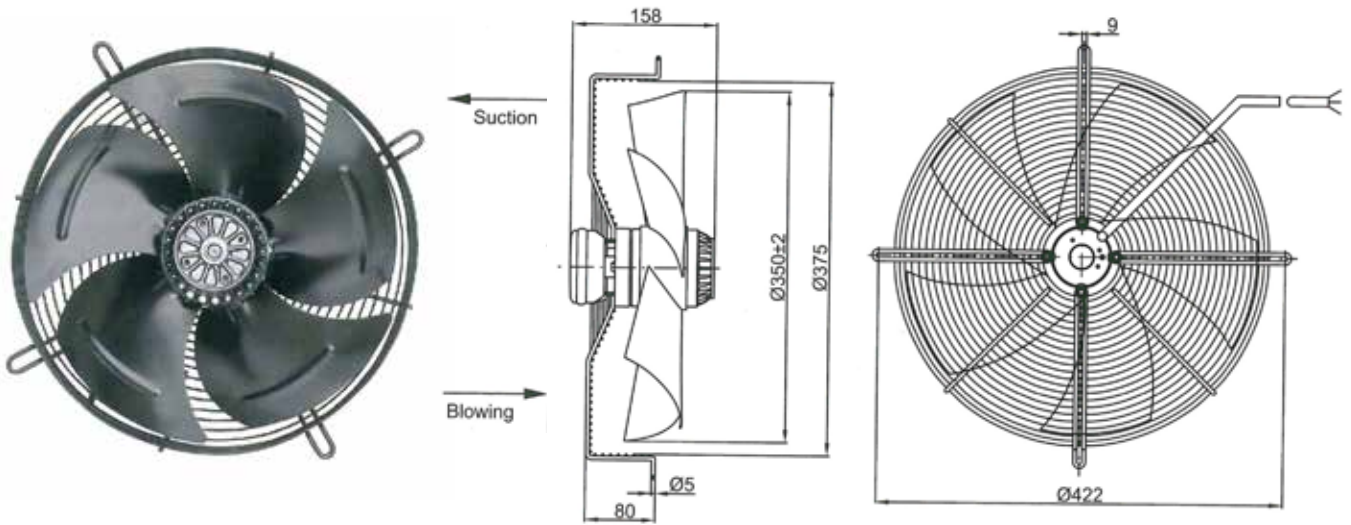


| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 2E300 | 230         | 50             | 250             | 1.1         | 3000                           | 2530          | 6              | 70          | 65                      | 4.7         |
| 5020 2D300 | 400         | 50             | 250             | 0.45        | 3000                           | 2500          | /              | 72          | 65                      | 4.7         |

**Note:** All dimensions in millimetres

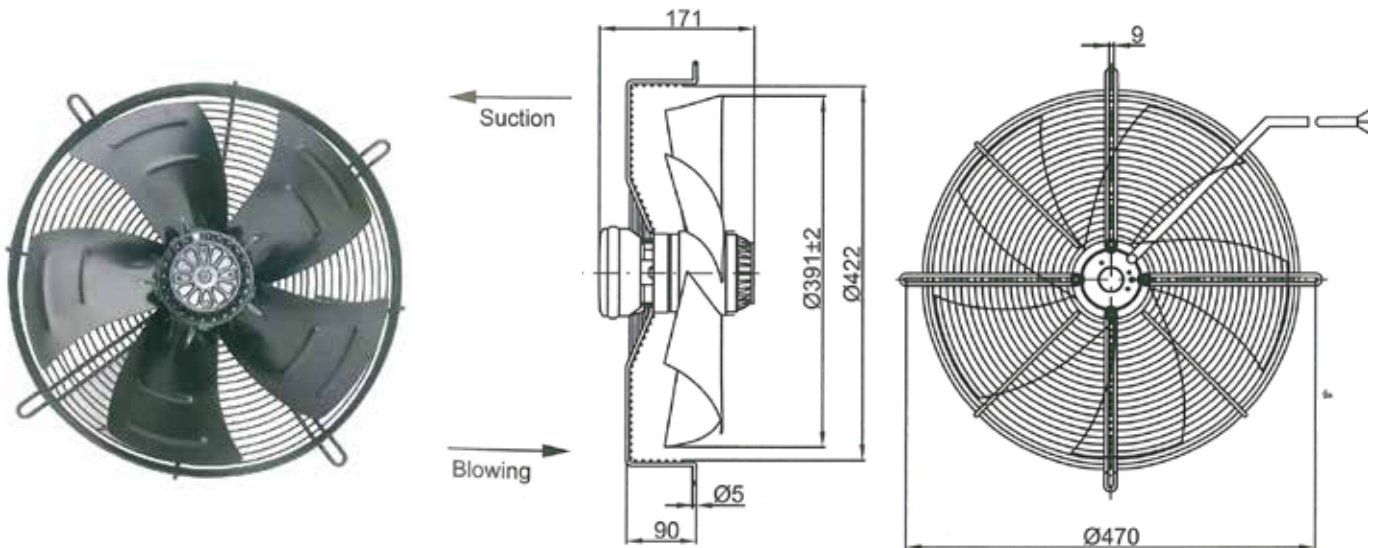
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# 5020 AXIAL FAN SERIES 350MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E350 | 230         | 50             | 138             | 0.68        | 2980                           | 1370          | 4              | 62          | 65                      | 4.7         |
| 5020 6E350 | 230         | 50             | 80              | 0.4         | 2100                           | 930           | 2              | 53          | 65                      | 4.7         |
| 5020 4D350 | 400         | 50             | 145             | 0.37        | 3110                           | 1390          | /              | 63          | 65                      | 4.7         |
| 5020 6D350 | 400         | 50             | 90              | 0.29        | 2100                           | 940           | /              | 53          | 65                      | 4.7         |

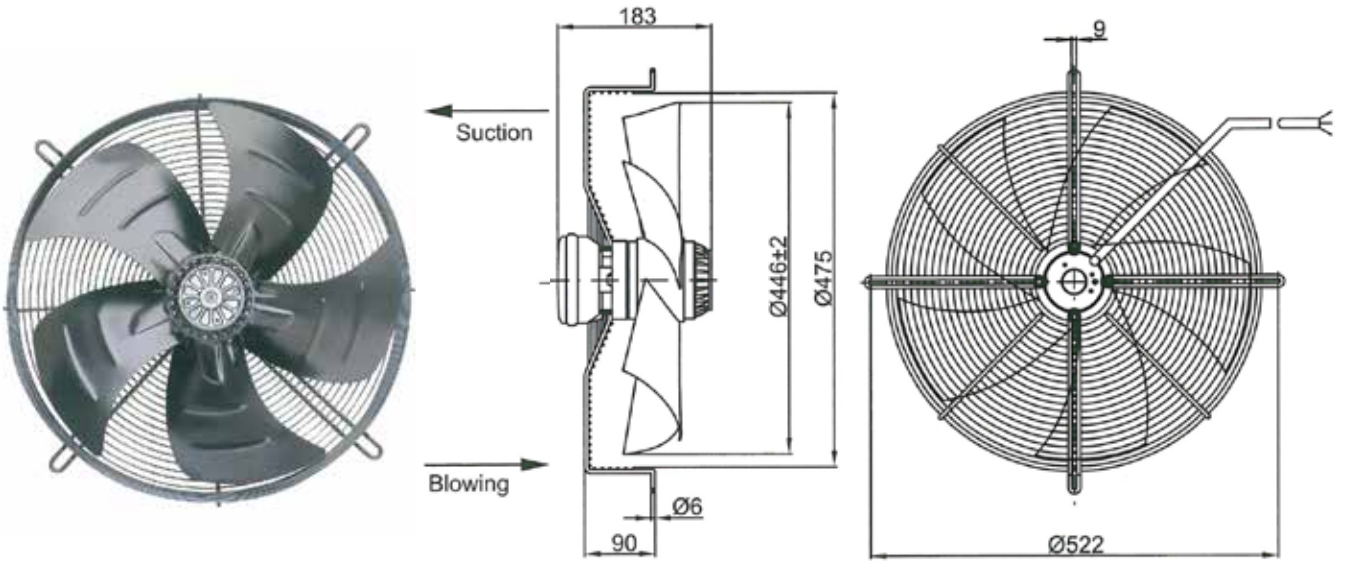
# 5020 AXIAL FAN SERIES 400MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E400 | 230         | 50             | 180             | 0.81        | 3700                           | 1350          | 6              | 67          | 65                      | 6.1         |
| 5020 4D400 | 400         | 50             | 190             | 0.48        | 3700                           | 1380          | /              | 67          | 65                      | 6.1         |
| 5020 6E400 | 230         | 50             | 115             | 0.67        | 2800                           | 940           | 3              | 58          | 60                      | 6.1         |
| 5020 6D400 | 400         | 50             | 115             | 0.36        | 2800                           | 900           | /              | 60          | 60                      | 6.1         |

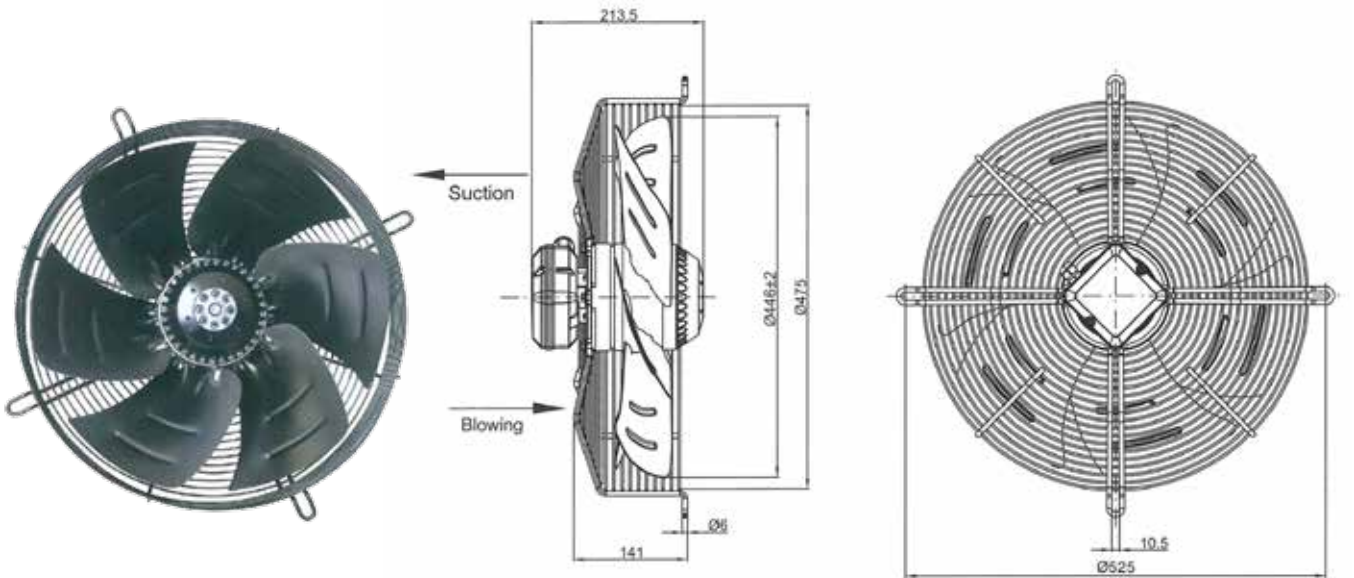
**Note:** All dimensions in millimetres

# 5020 AXIAL FAN SERIES 450MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4D450 | 400         | 50             | 250             | 0.58        | 4820                           | 1400          | /              | 68          | 55                      | 6.9         |
| 5020 4E450 | 230         | 50             | 250             | 1.15        | 4800                           | 1380          | 8              | 71          | 55                      | 6.9         |
| 5020 6D450 | 400         | 50             | 150             | 0.48        | 3100                           | 930           | /              | 62          | 55                      | 6.9         |
| 5020 6E450 | 230         | 50             | 120             | 0.6         | 3100                           | 950           | 4              | 60          | 55                      | 6.9         |
| 5020 6E450 | 230         | 50             | 150             | 0.68        | 3450                           | 900           | 4              | 60          | 55                      | 6.9         |
| 5020 6E450 | 230         | 50             | 175             | 0.75        | 3750                           | 860           | 4              | 60          | 55                      | 6.9         |

# 5020 AXIAL FAN SERIES 450MM



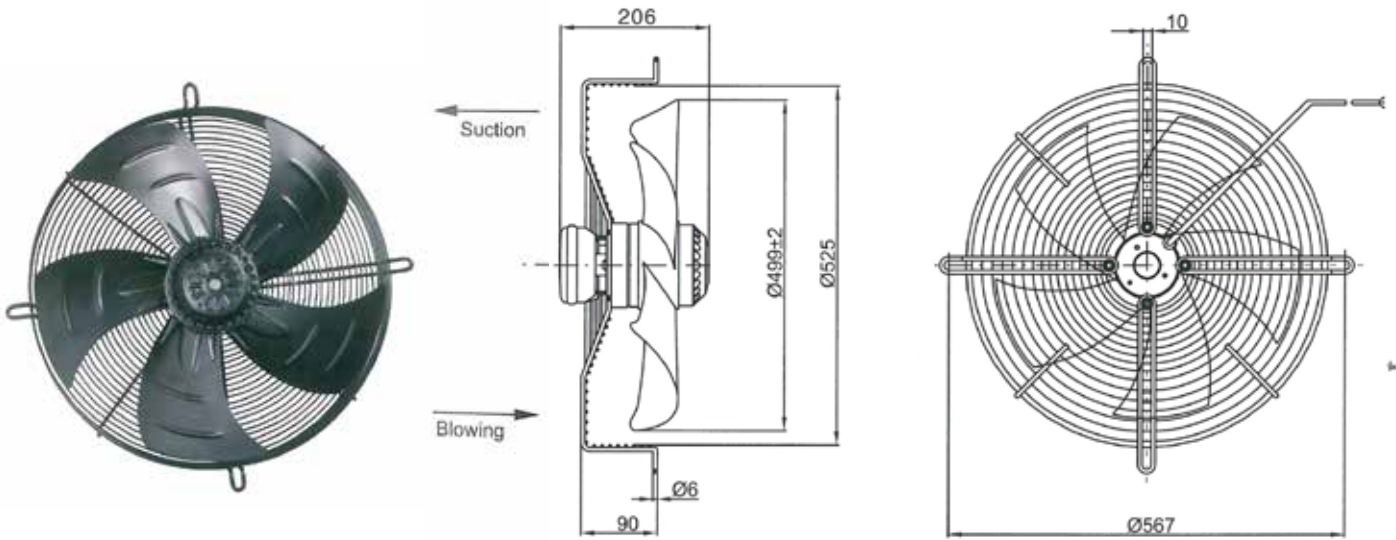
| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4D450 | 400         | 50             | 510             | 1.15        | 6600                           | 1400          | /              | 68          | 70                      | 16          |

**Note:** All dimensions in millimetres

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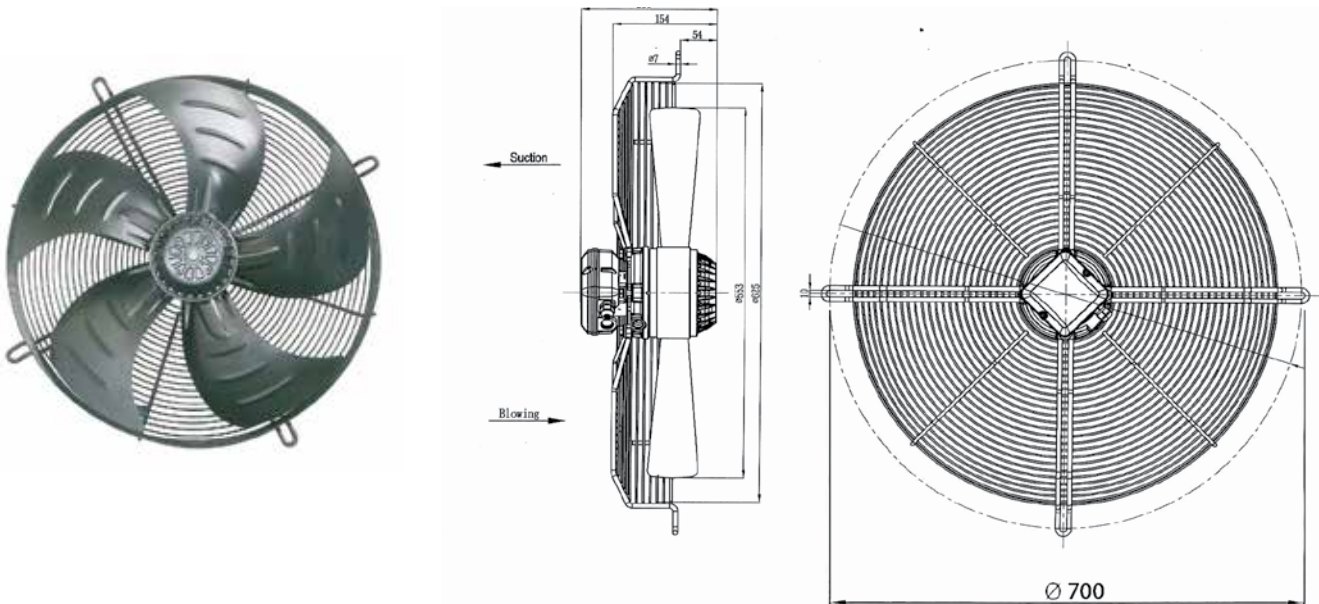


# 5020 AXIAL FAN SERIES 500MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E500 | 230         | 50             | 420             | 1.85        | 6950                           | 1320          | 12             | 72          | 50                      | 9.5         |
| 5020 4D500 | 400         | 50             | 450             | 0.93        | 7000                           | 1320          | /              | 72          | 50                      | 9.5         |
| 5020 6E500 | 230         | 50             | 230             | 1.15        | 5200                           | 920           | 6              | 67          | 50                      | 9.5         |
| 5020 6D500 | 400         | 50             | 250             | 0.78        | 5130                           | 920           | /              | 67          | 50                      | 9.5         |

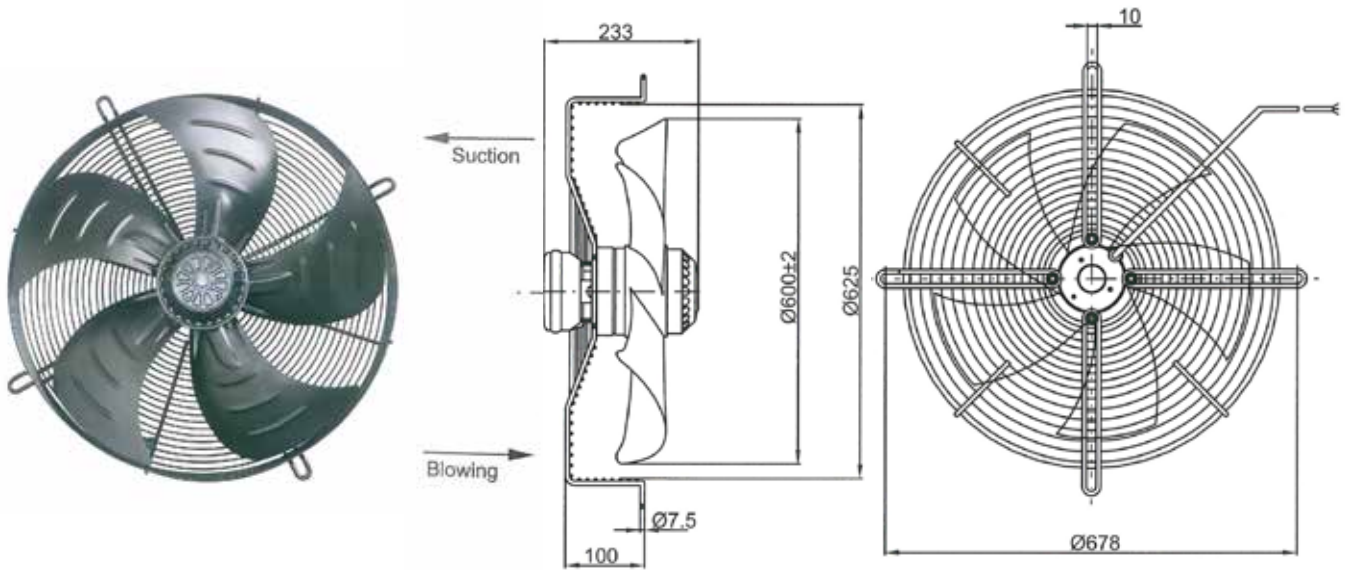
# 5020 AXIAL FAN SERIES 550MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E550 | 230         | 50             | 550             | 2.45        | 8500                           | 1310          | 12             | 74          | 50                      | 10.5        |
| 5020 4D550 | 400         | 50             | 650             | 1.2         | 8500                           | 1300          | /              | 74          | 50                      | 10.5        |
| 5020 6E550 | 230         | 50             | 330             | 1.68        | 7100                           | 910           | 10             | 67          | 50                      | 10.5        |
| 5020 6D550 | 400         | 50             | 330             | 0.87        | 7100                           | 900           | /              | 67          | 50                      | 10.5        |

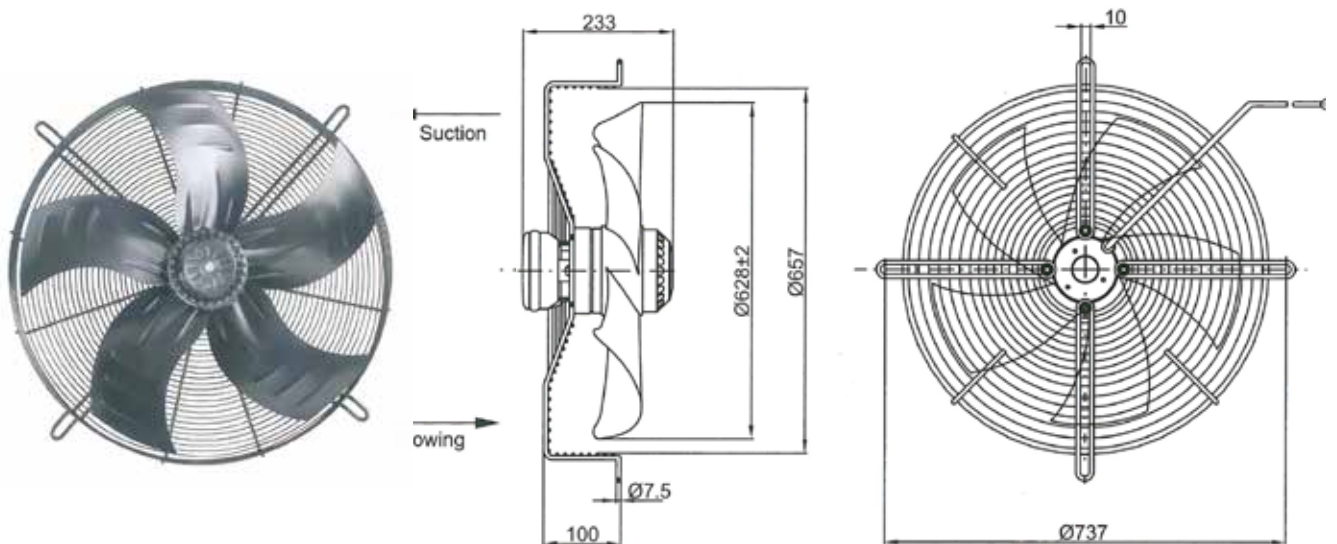
**Note:** All dimensions in millimetres

# 5020 AXIAL FAN SERIES 600MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (μF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E600 | 230         | 50             | 810             | 3.5         | 10300                          | 1315          | 16             | 76          | 50                      | 15          |
| 5020 4D600 | 400         | 50             | 860             | 1.95        | 10800                          | 1365          | /              | 79          | 50                      | 15          |
| 5020 6E600 | 230         | 50             | 500             | 2.2         | 9030                           | 930           | 14             | 70          | 50                      | 15          |
| 5020 6D600 | 400         | 50             | 550             | 1.57        | 8950                           | 920           | /              | 70          | 50                      | 15          |

# 5020 AXIAL FAN SERIES 630MM



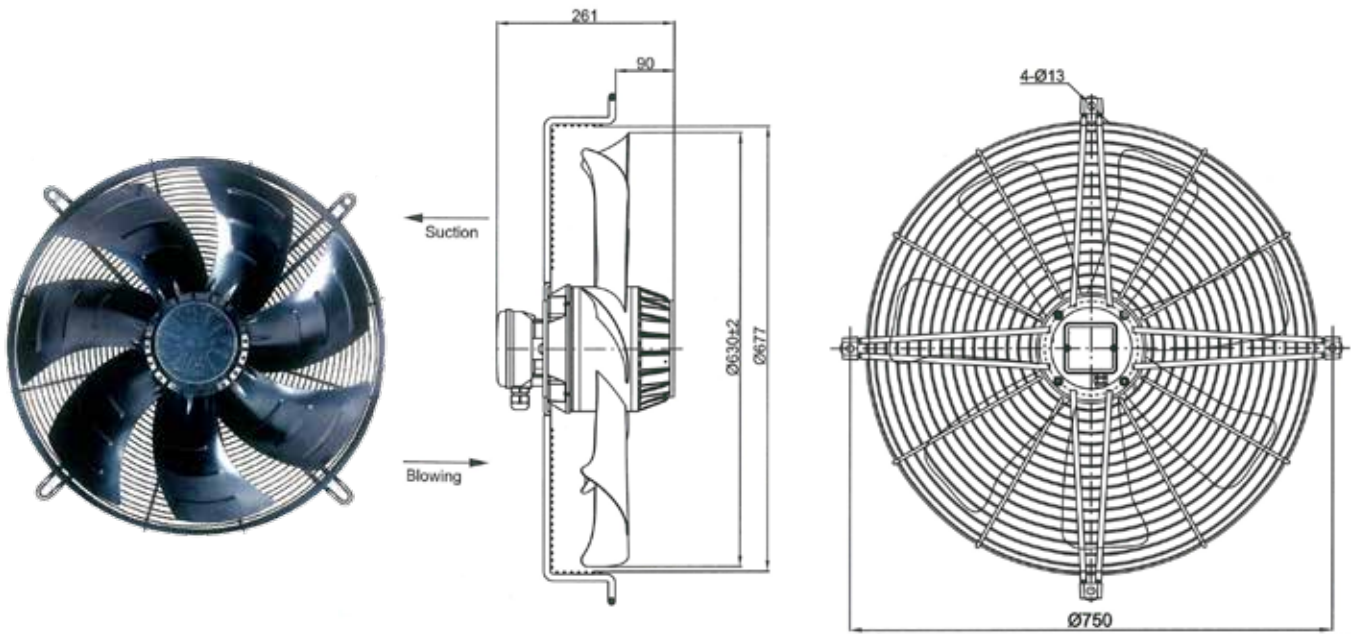
| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (μF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4E630 | 230         | 50             | 810             | 3.5         | 12500                          | 1315          | 16             | 75          | 50                      | 15          |
| 5020 4D630 | 400         | 50             | 860             | 1.95        | 13000                          | 1365          | /              | 81          | 50                      | 15          |
| 5020 6E630 | 230         | 50             | 500             | 2.2         | 9600                           | 930           | 14             | 75          | 50                      | 15          |
| 5020 6D630 | 400         | 50             | 550             | 1.57        | 9580                           | 920           | /              | 75          | 50                      | 15          |

**Note:** All dimensions in millimetres

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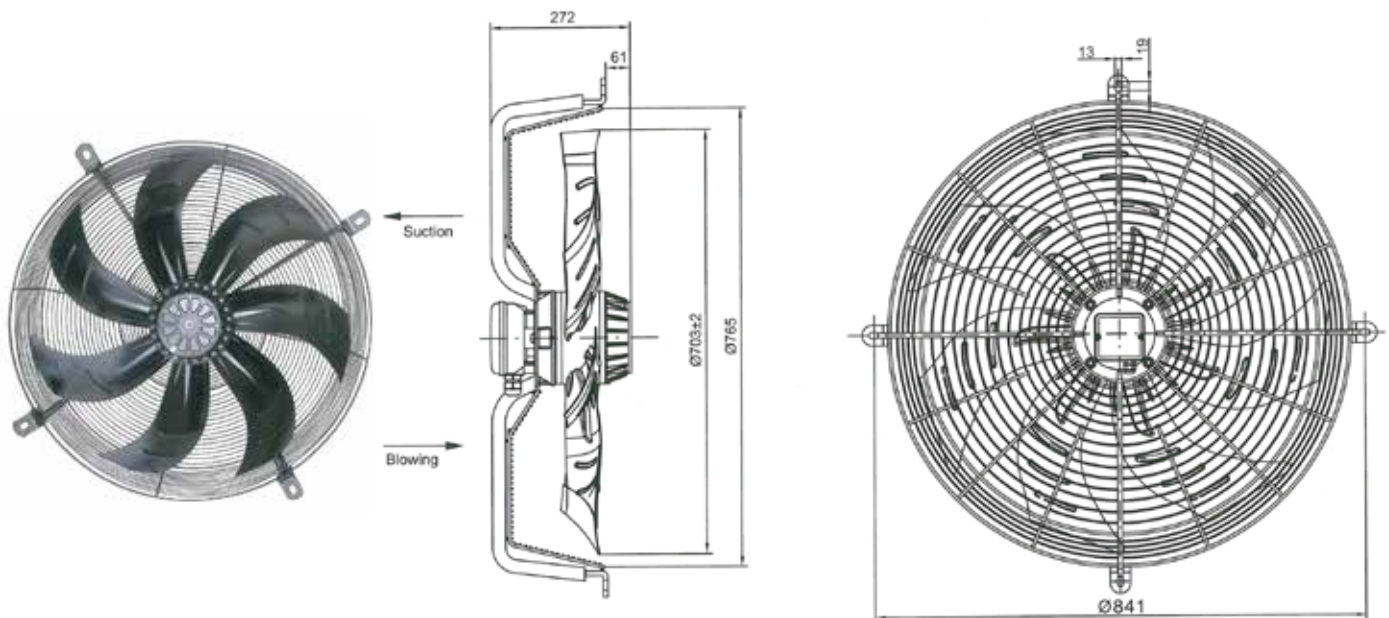


# 5020 AXIAL FAN SERIES 630MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 4D630 | 400 Δ/Y     | 50             | 1900/140        | 3.5/2.3     | 15300/11900                    | 1350/1050     | /              | 81          | 50                      | 22          |

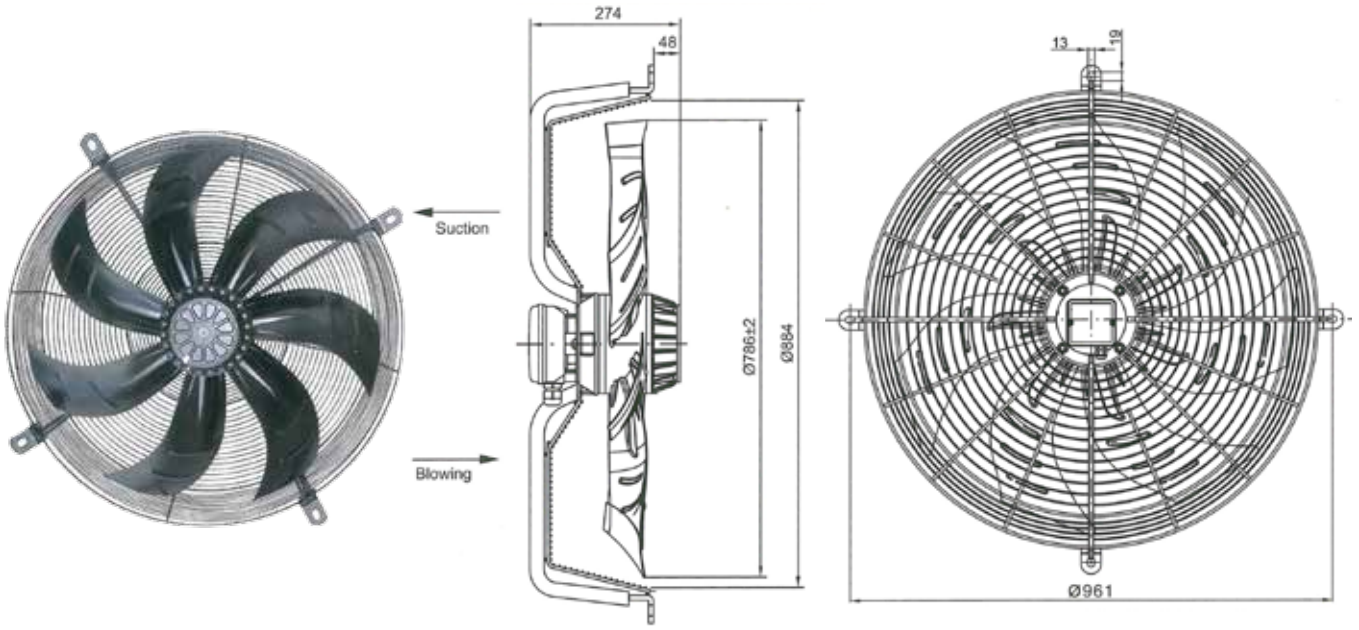
# 5020 AXIAL FAN SERIES 710MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 6D710 | 400 Δ/Y     | 50             | 1100/700        | 2.35/1.2    | 15800/13500                    | 900/750       | /              | 80          | 50                      | 29          |

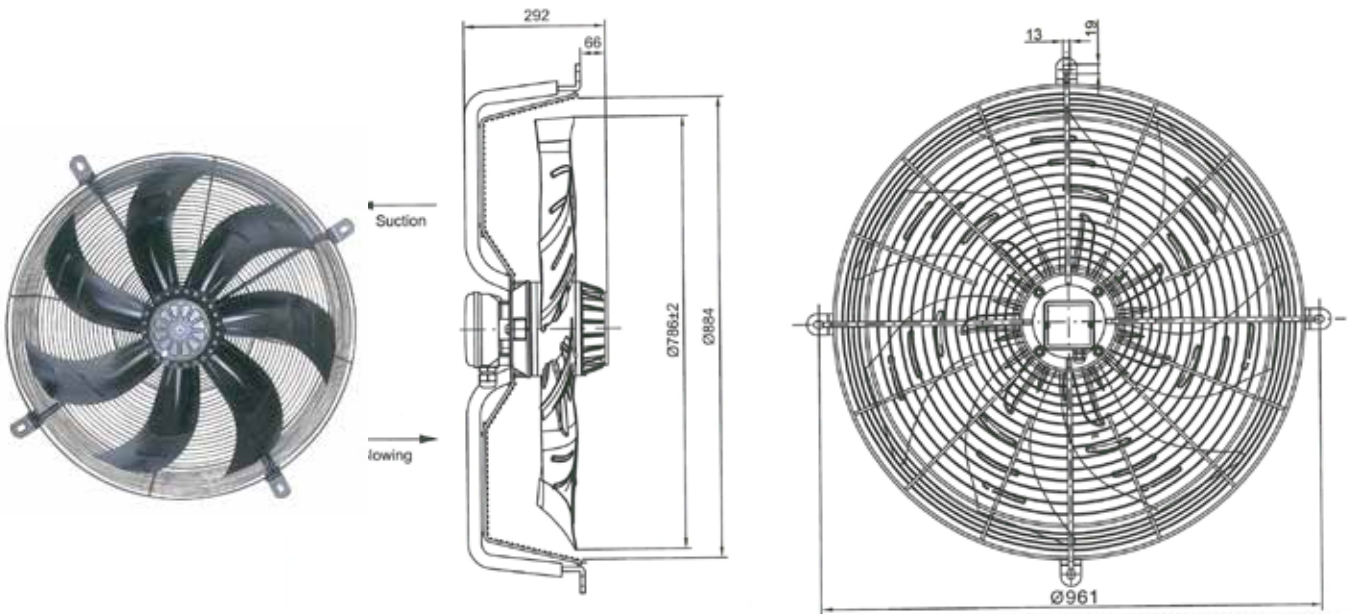
**Note:** All dimensions in millimetres

# 5020 AXIAL FAN SERIES 800MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 6D800 | 400 Δ/Y     | 50             | 1650/1060       | 3.65/1.94   | 20800/15600                    | 880/700       | /              | 81          | 50                      | 31          |

# 5020 AXIAL FAN SERIES 800MM

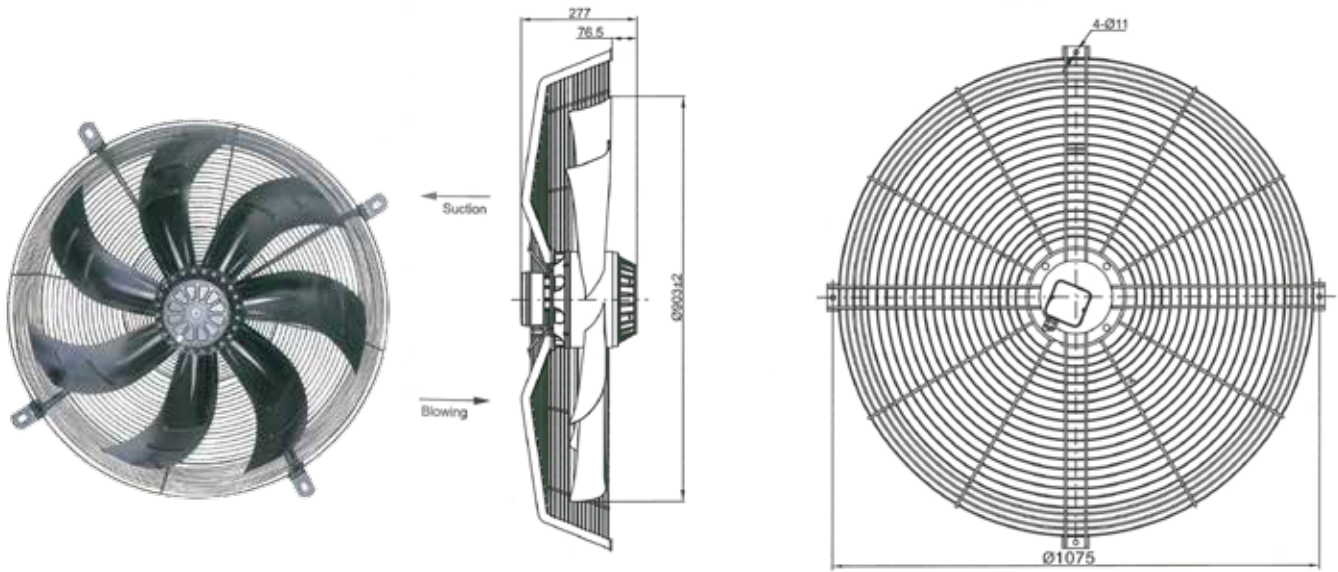


| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 6K800 | 400         | 50             | 1800            | 3.85        | 19300                          | 900           | /              | 81          | 80                      | 36          |

**Note:** All dimensions in millimetres

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# 5020 AXIAL FAN SERIES 910MM



| MODEL      | VOLTAGE (V) | FREQUENCY (HZ) | INPUT POWER (W) | CURRENT (A) | AIR VOLUME (M <sup>3</sup> /H) | SPEED (R/MIN) | CAPACITOR (µF) | NOISE (DBA) | ENVIRONMENTAL TEMP (°C) | WEIGHT (KG) |
|------------|-------------|----------------|-----------------|-------------|--------------------------------|---------------|----------------|-------------|-------------------------|-------------|
| 5020 6D910 | 400 Δ/Y     | 50             | 2450/1550       | 4.7/2.6     | 25500/21000                    | 870/670       | /              | 82          | 50                      | 38          |

**Note:** All dimensions in millimetres



| FIXED CONDITION               | VARIABLE              |  | EQUATION                                     |
|-------------------------------|-----------------------|--|--|
| Impeller System Density       | Impeller Speed (N)    | Flow rate varies directly as the speed ratio                           | $Q_2 = Q_1 \left( \frac{N_2}{N_1} \right)$   |
|                               |                       | Pressure varies as the square of the speed ratio                       | $P_2 = P_1 \left( \frac{N_2}{N_1} \right)^2$ |
|                               |                       | Power varies as the cube of the speed ratio                            | $P_2 = P_1 \left( \frac{N_2}{N_1} \right)^3$ |
| Speed Density Point of Rating | Impeller Diameter (D) | Flow rate varies as the cube of the impeller diameter ratio            | $Q_2 = Q_1 \left( \frac{D_2}{D_1} \right)^3$ |
|                               |                       | Pressure varies as the square of the impeller diameter ratio           | $P_2 = P_1 \left( \frac{D_2}{D_1} \right)^2$ |
|                               |                       | Power varies as the 5th power of the impeller diameter ratio           | $P_2 = P_1 \left( \frac{D_2}{D_1} \right)^5$ |
| Speed Density Point of Rating | Impeller Width (W)    | Flow rate varies directly as the impeller width ratio                  | $Q_2 = Q_1 \left( \frac{W_2}{W_1} \right)$   |
|                               |                       | Power varies directly as the impeller width ratio                      | $P_2 = P_1 \left( \frac{W_2}{W_1} \right)$   |
| Flow Rate Speed               | Air Density (d)       | Power and pressure varies directly as the air density ratio            | $P_2 = P_1 \left( \frac{d_2}{d_1} \right)$   |
|                               |                       |  | $P_2 = P_1 \left( \frac{d_2}{d_1} \right)$   |
| Weight Flow                   | Air Density (d)       | Air flow, speed and pressure varies inversely as the air density ratio | $Q_2 = Q_1 \left( \frac{d_1}{d_2} \right)$   |
|                               |                       |  | $N_2 = N_1 \left( \frac{d_1}{d_2} \right)$   |
|                               |                       |  | $P_2 = P_1 \left( \frac{d_1}{d_2} \right)$   |
|                               |                       | Power varies inversely as the square of the air density ratio          | $P_2 = P_1 \left( \frac{d_1}{d_2} \right)^2$ |





## AUSTRALIAN SALES NETWORK

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### Christchurch Branch

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