

**PBM**

**SPECIFICATION FOR APPROVAL**

Customer: Customer  
Model No: PC45B2A530L  
Motor Type: AC motor



## PBM Motor and Fan (Suzhou) Co., Ltd

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Customer Approved

Customer

PBM Checked By

Daniel Luo

This specification defines the Mechanical and Electrical characteristics of the DC brushless external rotor motorized axial fan and backward curved impeller.

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### ◆ 1. General Characters

|      |                       |  |
|------|-----------------------|--|
| 1-1  | Rated Voltage         | 230 VAC  |
| 1-2  | Frequency             | 50 Hz  |
| 1-3  | Rated Speed           | 2100 RPM   |
| 1-4  | Input Current         | 0.28 A   |
| 1-5  | Input Power           | 39 W   |
| 1-7  | Acoustical Noise      | 51 dB(A)   |
| 1-8  | Life Expectance       | 30,000 Hours<br>At nominal supply voltage, full speed room temperature 20°C. |
| 1-10 | Direction of Rotation | Clockwise<br>seen on rotor   |
| 1-11 | Dimension             | See dimension drawing  |
| 1-12 | Material of Impeller  | Aluminum alloy   |
| 1-13 | Air Flow              | 220.10 CFM / 374 m <sup>3</sup> /H   |
| 1-14 | Static Pressure       | 2.65 mmH <sub>2</sub> O / 26 Pa  |

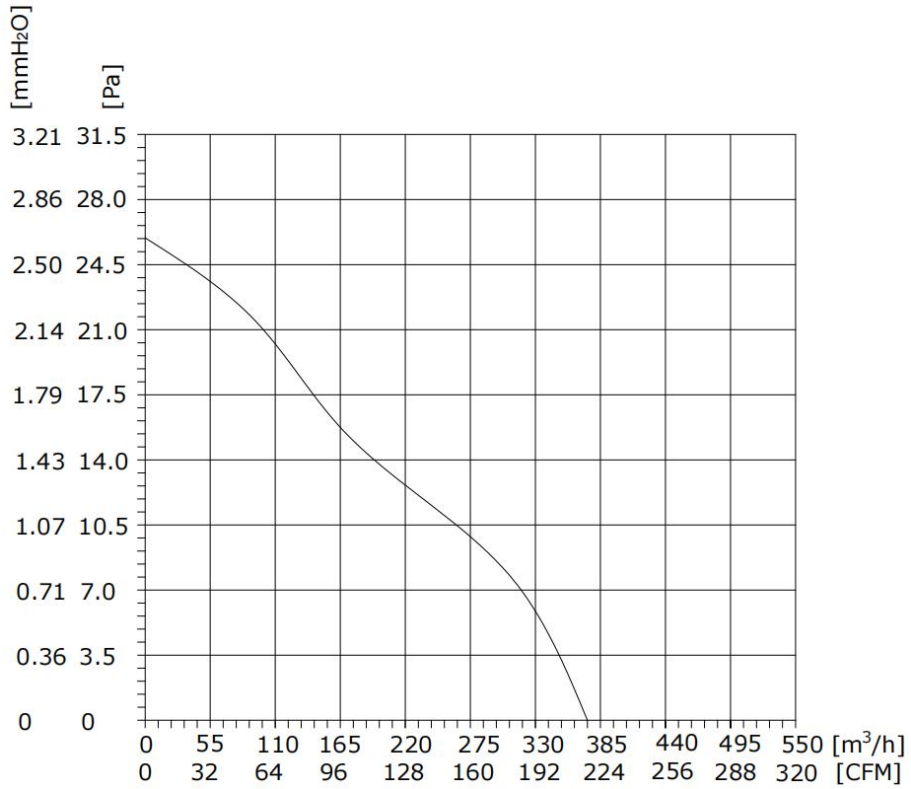
### ◆ 2. Environmental Characters

|     |                       |                                       |
|-----|-----------------------|---------------------------------------|
| 2-1 | Operating Temperature | -20°C to 70°C                         |
| 2-2 | Storage Temperature   | -40°C to 80°C                         |
| 2-3 | RoHS                  | All the material meets RoHS standard. |

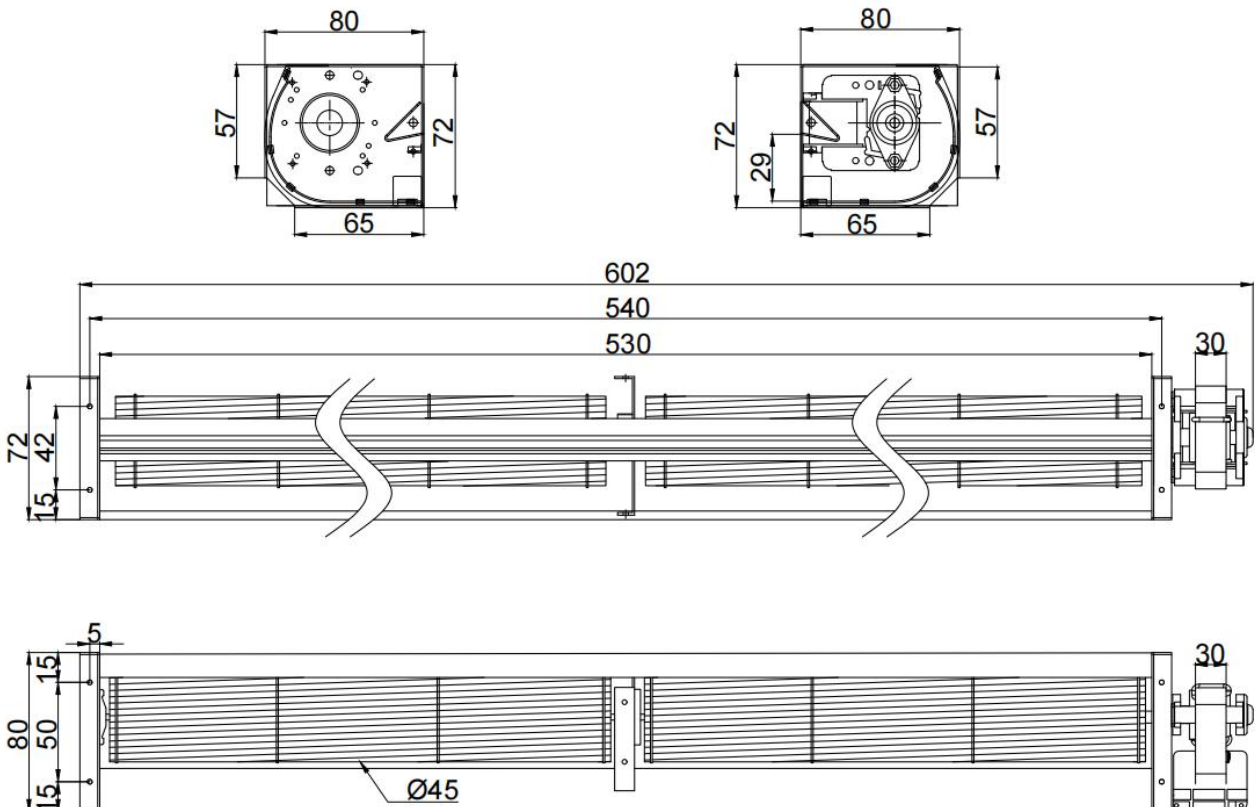
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## ◆ 3. Performance Curve



## ◆ 4. Outline Drawing



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### ◆ 5. Safety Requirements

1. Make sure that the metal casing of the stator connected to the ground before being powered on.
2. If the fan doesn't work after been powered on, please check the speed control input voltage, it may not be well connected. To prevent the suddenly start of the fan to hurt hands or other personal injury; do not touch the impellers or rotor when the power is on.
3. Fan needs a few seconds to start after being powered on. To prevent personal injury, do not touch the impellers or rotor when the power is on or in a low speed.
4. Unless they are instructed by the person(s) responsible for their safety, those who are lack of physical, mental or sensory capacities and proper practical experience or expertise cannot use this appliance. Please do not let the children play with this product.
5. If the power cord be damaged, the power cord must be replaced by the manufacturer in order to avoid accident of the proxy service personnel or the equivalent qualification maintenance personnel.
6. As an integral part of the fan, this DC motor cannot be used alone without impeller or load.
7. Please carefully read this technical specification before using the product.