## Engineered for the Critical

**World's Largest Selection of Fan Products**
**World's Most Comprehensive Fan Solutions**




LONGWELL®
Turn to Experts - HVAC&R


**Ningbo Longwell Electric Technology Co., Ltd**

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Email: sales@zjlongwell.com


CE RoHS BSCI ISO EAC UL LVD

LONGWELL®
Turn to Experts - HVAC&R

# LONGWELL TECHNOLOGY

***The Ventilation and Drive Technology Partner for Mission-Critical Environments***



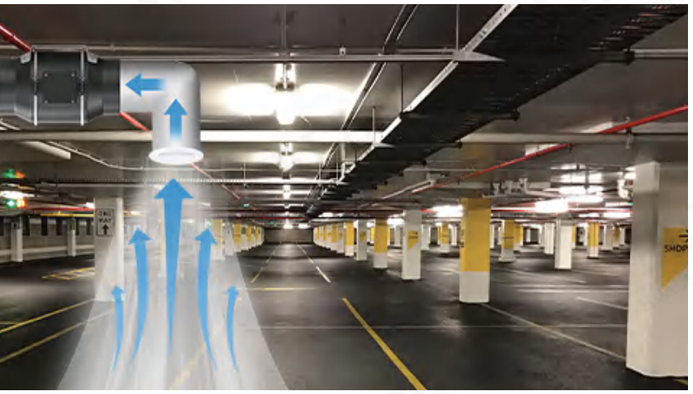
## *Professional Manufacturer of HVACR Fan & Motors*

—— Diagonal Flow Pipe Booster Fan

**Longwell Group**
Longwell-China
Longwell-USA
Longwell-Russia
Longwell-Europe

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# About Longwell

The Ventilation and Drive Technology Partner for Mission-Critical Environments

OEM for Well-Known Brands | Supplies Fortune 500 Companies | Global Technical Support

LONGWELL is a leading fan manufacturer, specializing in high-quality fans, blowers, motors, and components for heating, ventilation, air conditioning, and refrigeration applications. We have a strong presence in delivery capabilities, design and R&D capabilities, as well as manufacturing, placing us at the forefront of the industry.

Our product range includes EC/DC/AC centrifugal fans, axial fans, AC/BLDC cross-flow fans, single/double forward curved fans, AC/BLDC/ECM motors, and industrial fan blowers. Since our establishment in 1990, we have continuously upgraded our facilities and production capacity, boasting advanced testing labs and production facilities with an annual capacity of millions of fans. With over 20 years of experience, we are highly skilled in the design, development, and manufacture of fans and motors. We export to over 30 countries and serve numerous Fortune 500 clients.

Our facilities and products are compliant with certifications such as ISO9001, ISO14001, BSCI, CE, UL/ETL, CCC, EMC, and LVD. These certifications demonstrate our compliance in quality management, environmental management, social responsibility, and product safety. We are quality-oriented and dedicated to providing products and services that meet international standards.

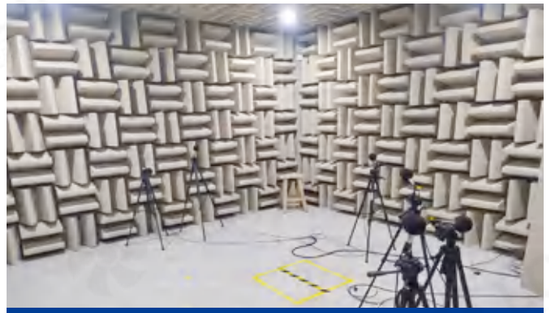
Equipped with advanced testing labs and production facilities, including a B&K noise lab, CFD simulation lab, air dynamics test chambers, automatic welding machines, CNC machining centers, and auto robot injection machines, we ensure efficient production and on-time delivery.

As industry leaders, we prioritize technological innovation and efficiency. We employ advanced technologies such as aerodynamics principles and CFD simulation to ensure precise and efficient fan designs. Additionally, we offer customized services to design and manufacture fan systems according to specific customer requirements. Our focus is on providing high-tech, high-efficiency products that meet our customers' needs and contribute to a better future.

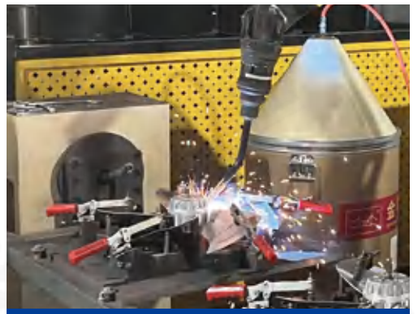
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials to deliver products that are efficient, safe, and reliable. Our brand is widely recognized globally, and we are committed to promoting sustainable development and advancing the efficient fan industry.

LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

| 193 | 40000㎡ | 500+ | 1Million+PCS | 6 | 50+ |
|---|---|---|---|---|---|
| Staff | Floor Space | Branding Clients | Annual Outputs | Overseas offices on spot support | Members R&D Team |


B&K Noise Testing Lab


Production Line


Automatic Welding


Balance Machine


Automatic Welding Machine


Production Line - Centrifugal Fan


Automatic CNC machine


Air Dynamic Test Lab


Production Line - Axial Fans


Production Line

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# Testing and Standards

- ISO GB/T 19001-2016 idt ISO 9001:2015/GB/T 24001-2016 idt ISO 14001:2015/GB/T 45001-2020 idt ISO 45001:2018
- UL 507:2017 Ed.10+R:27/CSA C22.2#113:2018 Ed.11
- BSCI ANSI C63.4:2014/ANSI C63.4a-2017
- EN IEC 55014-1:2021/EN IEC 55014-2:2021/EN IEC 61000-3-2:2019 +A1:2021
  EN 61000-3-3:2013 +A1:2019 +A2:2021 +AC:2022-01
  EN 60335-2-80:2003 +A1:2004 +A2:2009;
  EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019+A14:2019 +A2:2019+A15:2021
  EN 62321-1:2013/EN 62321-2:2014/EN 62321-3-1:2014
  EN 62321-4:2014+A1:2017/EN 62321-5:2014/EN 62321-6:2015
  EN 62321-7-1:2015/EN 62321-7-2:2017/EN 62321-8:2017
















Enterprise Credit Evaluation Certificate - Hightest Level in China

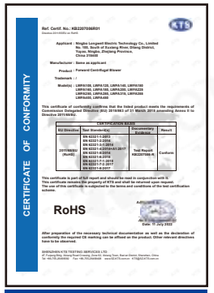

Own-Brand


Own-Brand


ETL


ETL

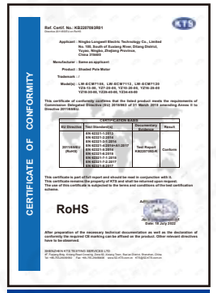

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL

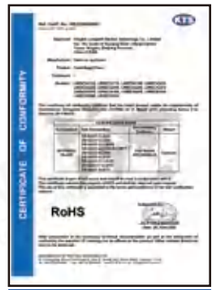

ETL


CE

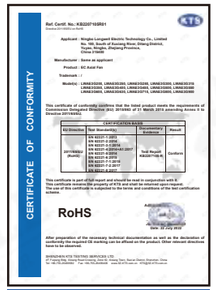

CE

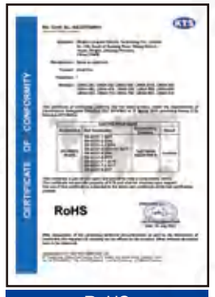

ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

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# Mainly Application

Building ventilation system/Primary air system/
Bathroom ventilation/Kitchen ventilation/Air conditiong vent

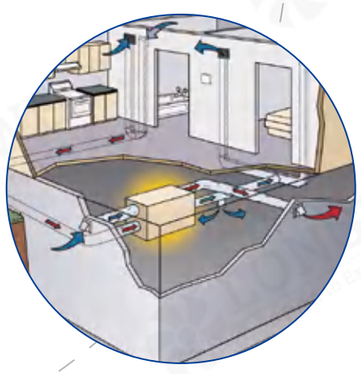




Grow Tent



Bathroom
Ventilation



Primary
Air System



Kitchen Ventilation



Air Conditiong Vent

# Type Code

LW D A - 100(4”) S - P B N - 001 S

- LW — Longwell
- D — D-Duct fan
- A — A-AC D-DC E-EC
- 100(4”) — Outlet diameter
- S — T-380V S-230V U-115V
- P — P-Plastic M-Metal
- B — B-With Connection Box W-without connection Box
- N — Y-With Speed Controller N-without Speed Controller
- 001 — Series Number
- S — Two-speed



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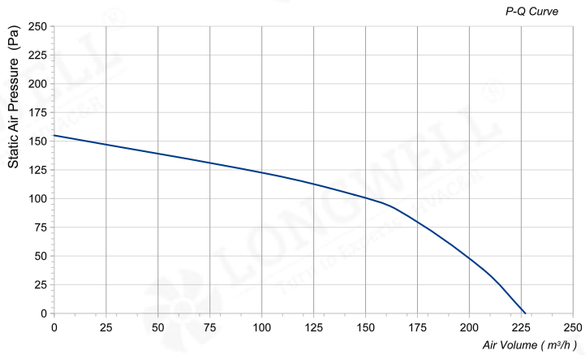
# Diagonal Flow Pipe Booster Fan

Professional HVAC Fan &Motors Manufacturer



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# LWDA-75(3") Serise



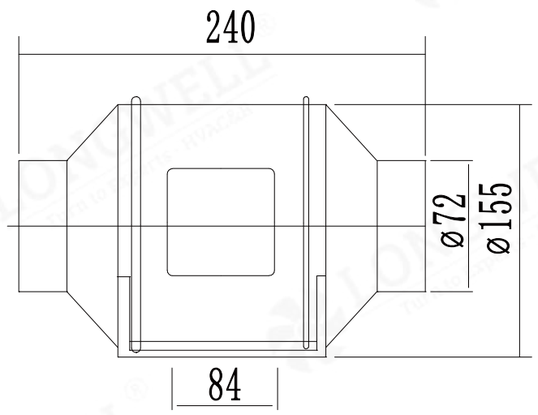


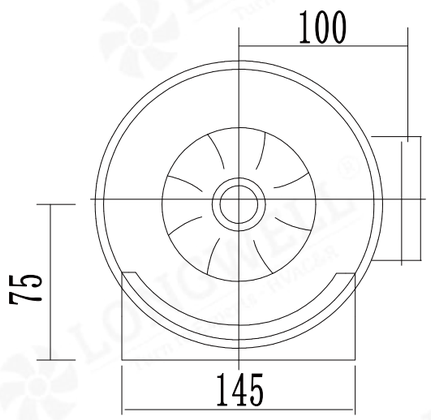

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

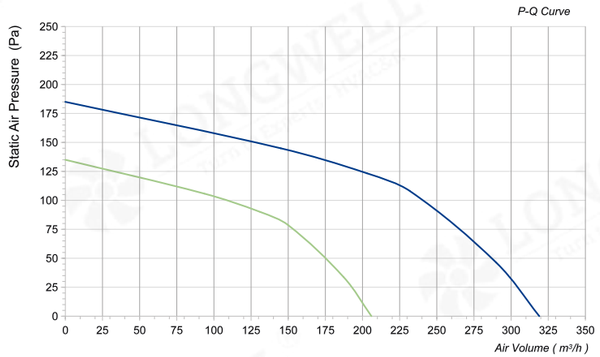
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-75(3")S-PBN-002 | 220 | 50 | 30 | / | 2600 | 227 | 155 | 31 |






# LWDA-100(4") Serise



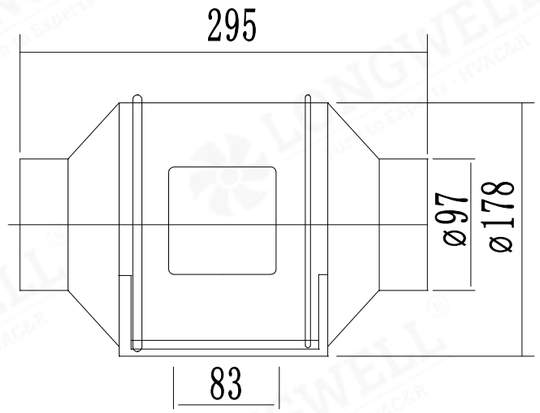


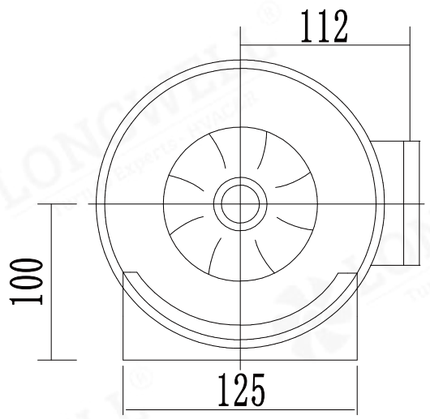

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

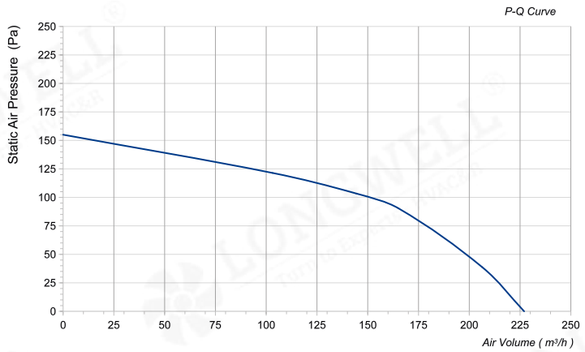
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-100(4")S-PBN-003 | 220 | 50 | 40 | / | 2600 | 319 | 185 | 32 |
| LWDA-100(4")S-PBN-003S | 220 | 50 | 40/32 | / | 2600/2200 | 319/205 | 185/135 | 32 |



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# LWDA-100(4") Serise



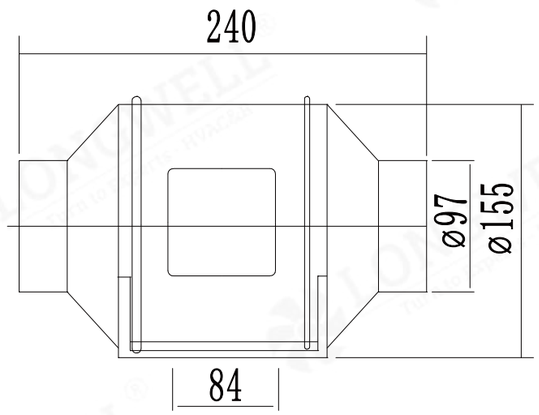


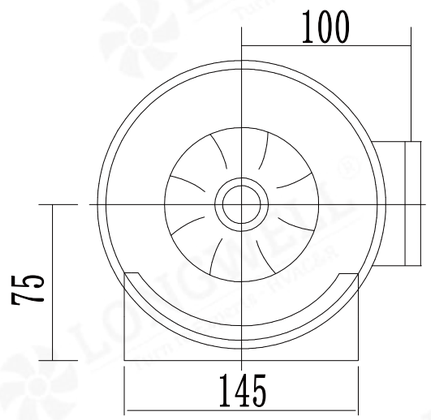

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

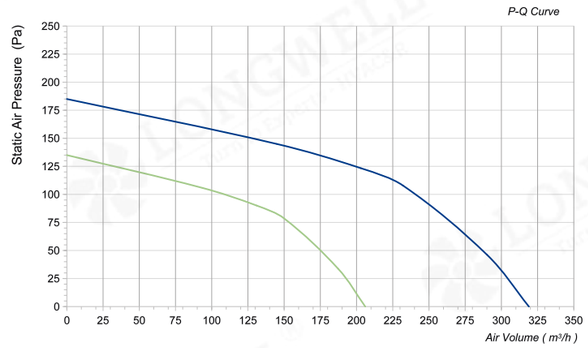
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-100(4")S-PBN-004 | 220 | 50 | 30 | / | 2600 | 227 | 155 | 31 |






# LWDA-125(5") Serise



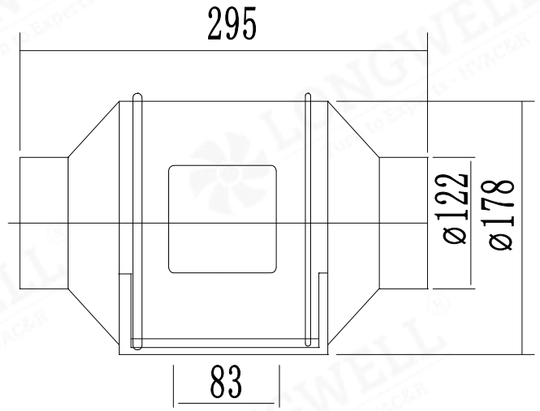


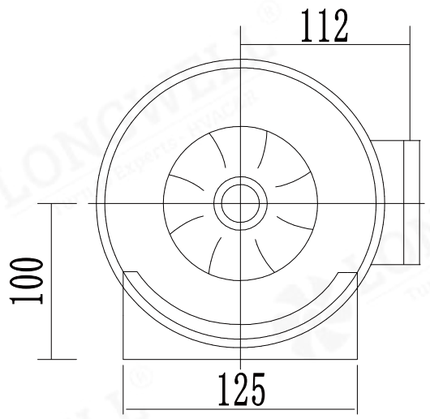

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

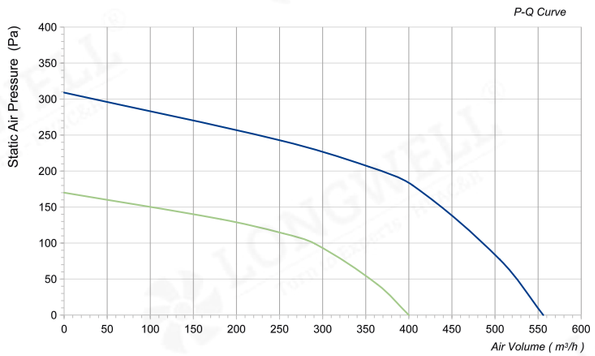
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-125(5")S-PBN-002 | 220 | 50 | 40 | / | 2600 | 319 | 185 | 34 |
| LWDA-125(5")S-PBN-002S | 220 | 50 | 40/32 | / | 2600/2200 | 319/205 | 185/135 | 34 |



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# LWDA-150(6") Serise





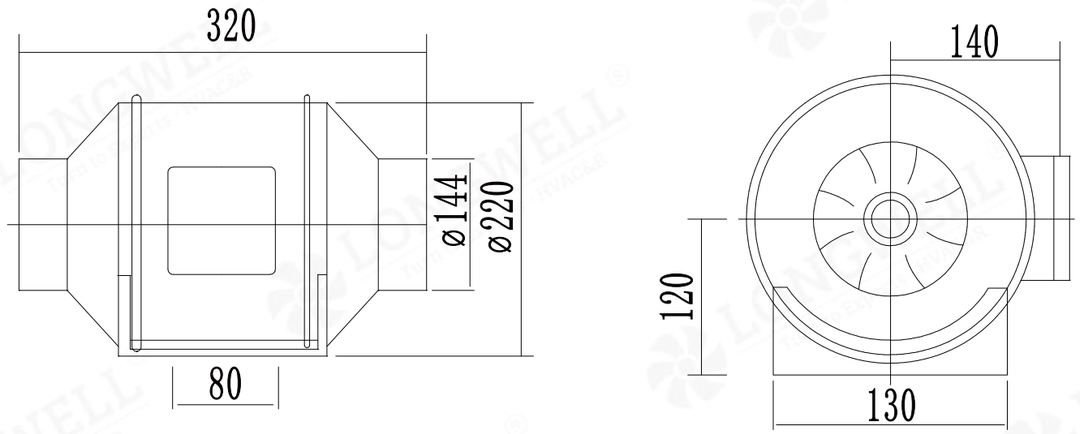

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Material: Plastic
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

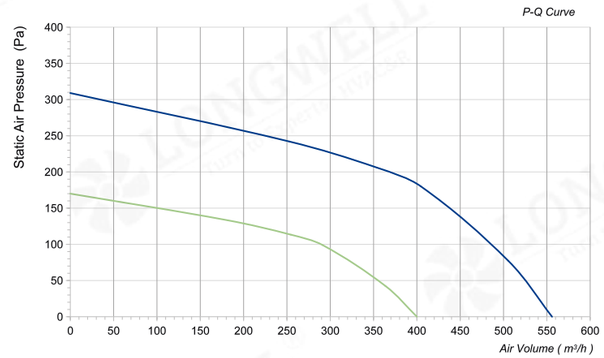
## Technical Specifications

| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-150(6")S-PBN-002 | 220 | 50 | 80 | / | 2600 | 556 | 309 | 38 |
| LWDA-150(6")S-PBN-002S | 220 | 50 | 80/70 | / | 2600/2200 | 556/400 | 309/171 | 38 |






# LWDA-160(6.3") Serise





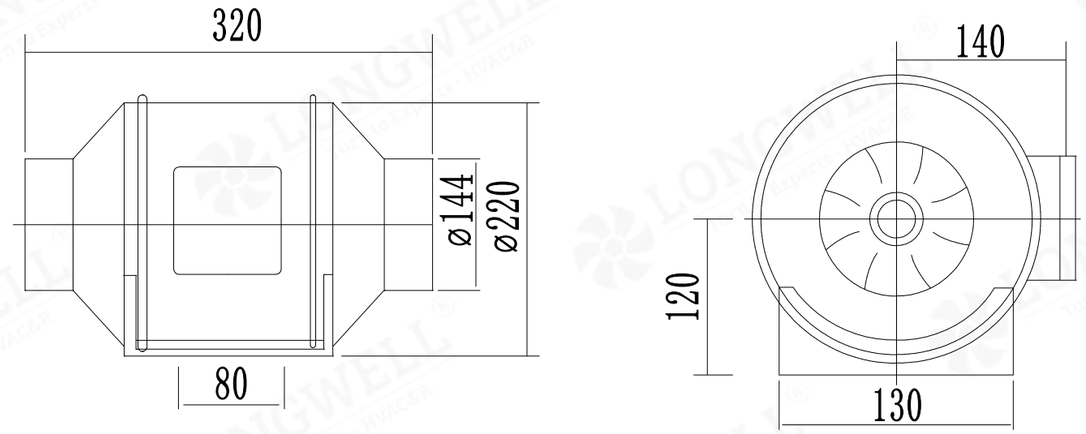

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Material: Plastic
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

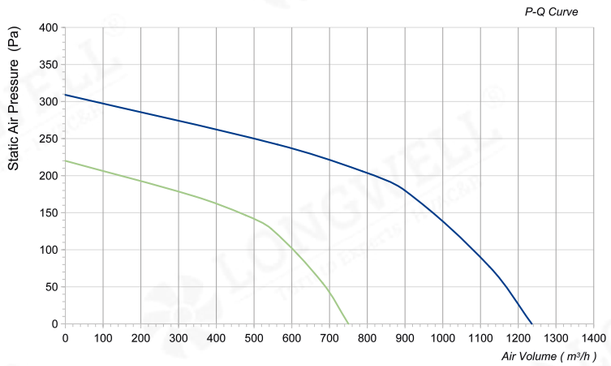
## Technical Specifications

| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-160(6.3")S-PBN-002 | 220 | 50 | 80 | / | 2600 | 556 | 309 | 38 |
| LWDA-160(6.3")S-PBN-002S | 220 | 50 | 80/70 | / | 2600/2200 | 556/400 | 309/171 | 38 |



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# LWDA-200(8") Serise



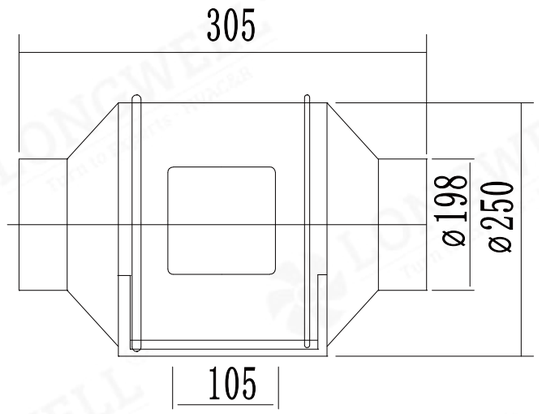


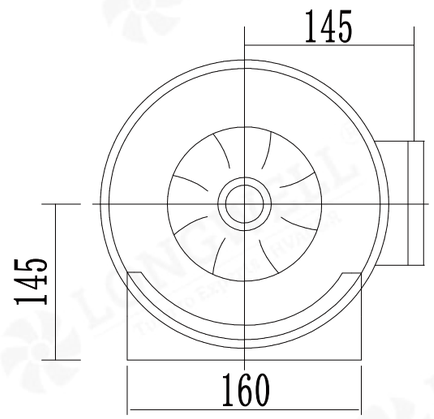

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

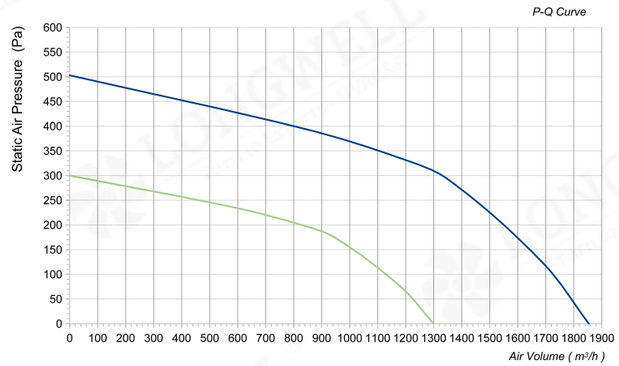
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-200(8")S-PBN-002 | 220 | 50 | 130 | / | 2600 | 1236 | 309 | 43 |
| LWDA-200(8")S-PBN-002S | 220 | 50 | 130/113 | / | 2600/2200 | 1236/750 | 309/220 | 43 |






# LWDA-250(10") Serise



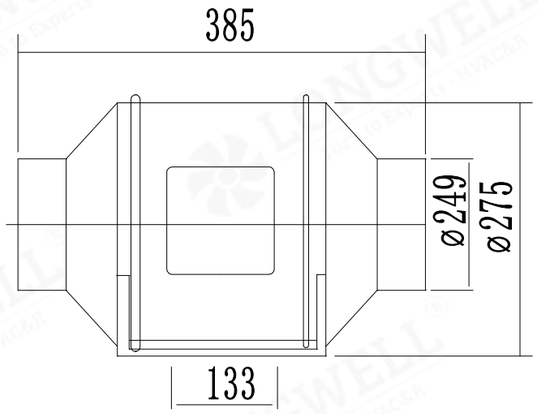


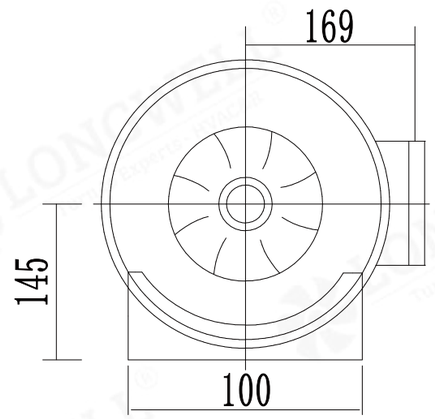

## Product Characteristic

- Motor Type: AC External Rotor Motor
- Insulation Class: F
- Material: Plastic
- Operation Temperature: -30℃～+60℃

## Technical Specifications

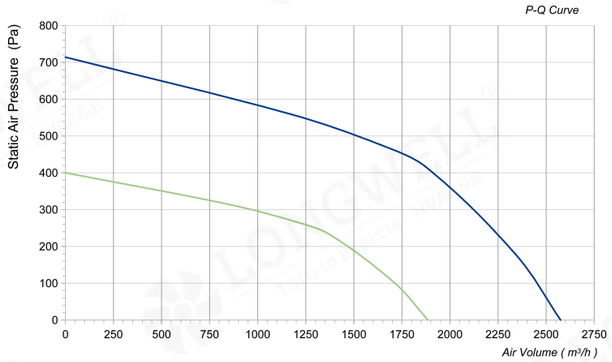
| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-250(10")S-PBN-002 | 220 | 50 | 245 | / | 2600 | 1854 | 503 | 50 |
| LWDA-250(10")S-PBN-002S | 220 | 50 | 245/186 | / | 2600/2200 | 1854/1300 | 503/300 | 50 |



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# LWDA-315(12") Serise





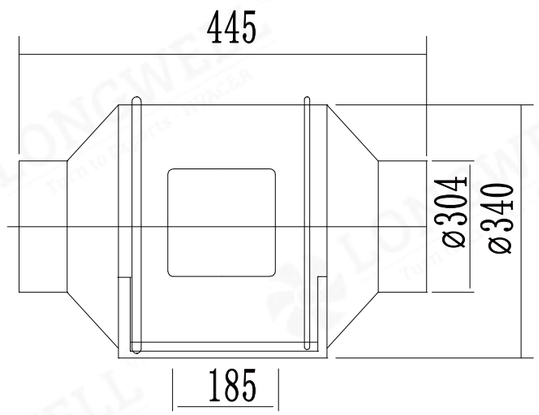

## Product Characteristic

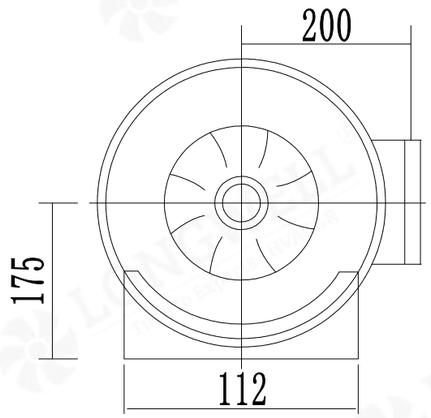
- Motor Type: AC External Rotor Motor
- Material: Plastic
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

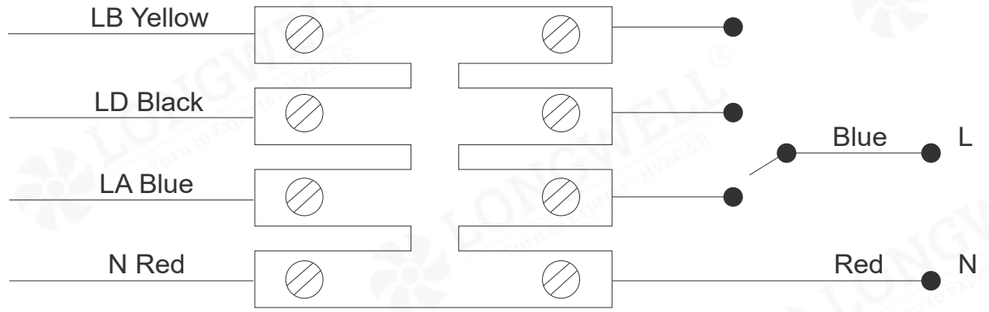
## Technical Specifications

| Model | Voltage (V) | Frequency (Hz) | Power (W) | Current (A) | Speed (RPM) | Air Flow (m³/h) | Pressure (Pa) | Noise [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| LWDA-315(12")S-PBN-002 | 220 | 50 | 320 | / | 2600 | 2575 | 714 | 71 |
| LWDA-315(12")S-PBN-002S | 220 | 50 | 320/220 | / | 2600/2200 | 2575/1800 | 714/400 | 71 |




## Two Speed Wiring Diagram

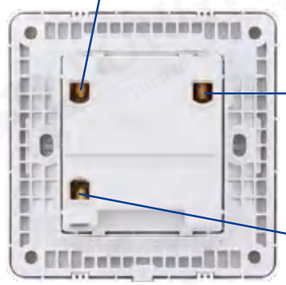



| N | LA | LD | LB | ⏚ |
|---|---|---|---|---|
| Zero line | High speed line | Low speed line | Capacitance | Ground wire |

With switch




Blue/Fast gear



110V/220V
Power cord

Black/Slow gear

N red /110V/220V
LA blue / 110V220V
LD black/110V/220V
LB yellow/110V/220V
Ground wire
Yellow/Green

## Variable Frequency Brushless Remote Control





