

Delivery Premium Quality Fans Globally for Healthier Breathing

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



Ningbo Longwell Electric Technology Co., Ltd

Headquarter: NO.100, South of Xuxiang River, Yuyao, Zhejiang Province, China 315400

Tell: +86 574 6218 9863

Fax: +86 574 6218 9863

Phone: 0086 183 5827 4663

Web: www.longwellfans.com | www.longwell-group.com | www.longwell-media.com

Email: sales@zjlongwell.com



**Professional HVAC Fan
& Motors Manufacturer**

EC Plastic Inline Duct Fan

Ningbo Longwell Electric Technology Co., Ltd



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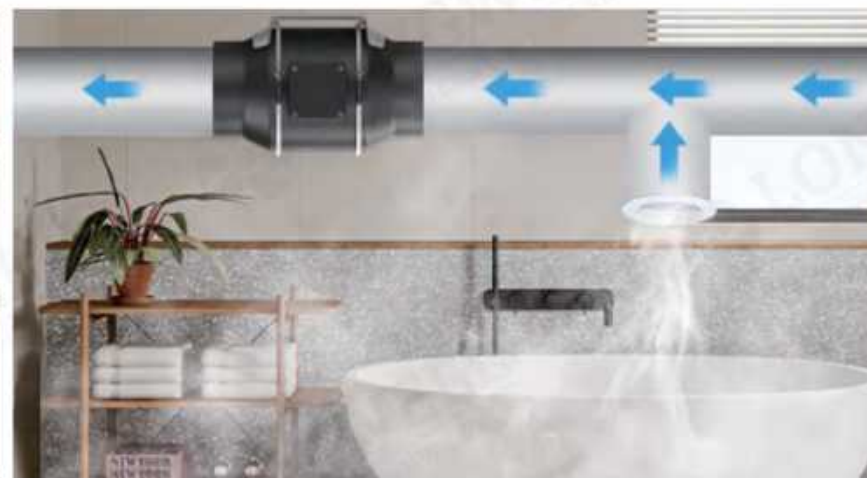
EC Plastic Inline Duct Fan

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Inline Pressurized Duct Fan

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About Longwell

Born for High-Quality Breathing. LONGWELL Fans Power Your Equipment

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

Staff

40000m²

Floor Space

500⁺

Branding Clients

1Million⁺ PCS

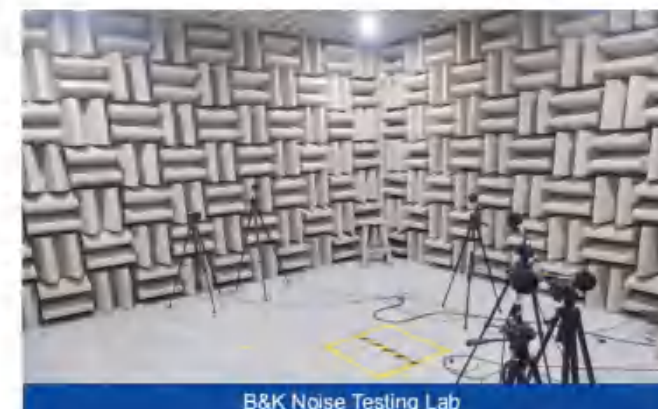
Annual Outputs

6

Overseas offices
on spot support

50⁺

Members
R&D Team



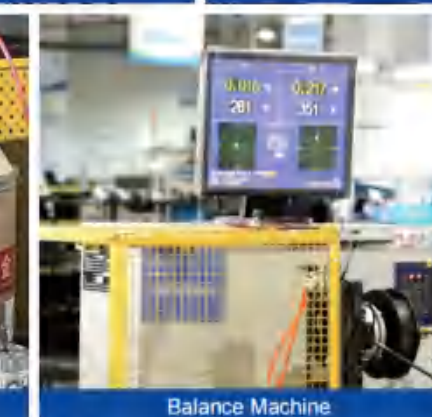
B&K Noise Testing Lab



Production Line



Automatic Welding



Balance Machine



Automatic Welding Machine



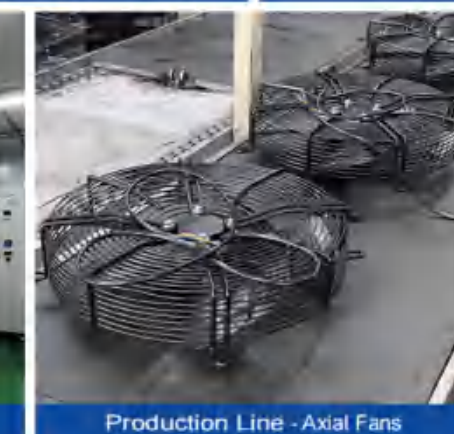
Production Line - Centrifugal Fan



Automatic CNC machine



Air Dynamic Test Lab



Production Line - Axial Fans



Production Line

Testing and Standards

- 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 - Highest Level in China



Own-Brand



Own-Brand



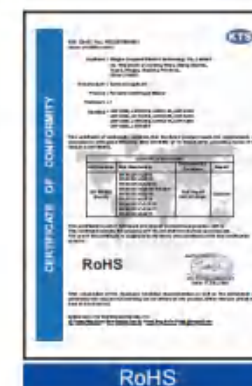
ETL



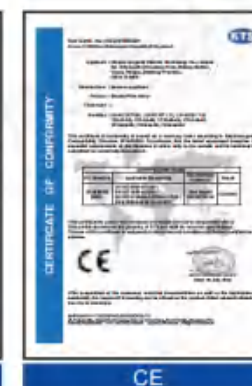
ETL



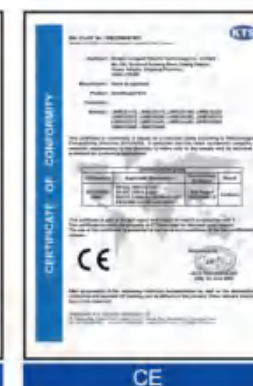
CE



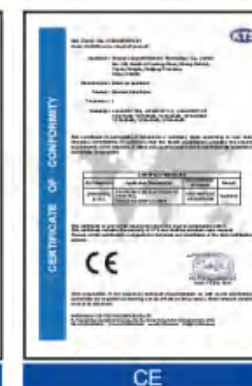
RoHS



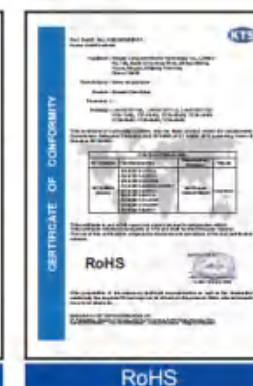
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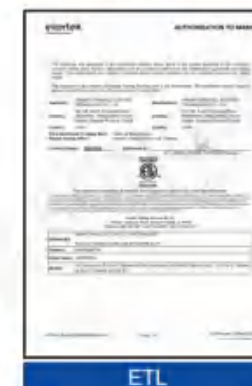
CE



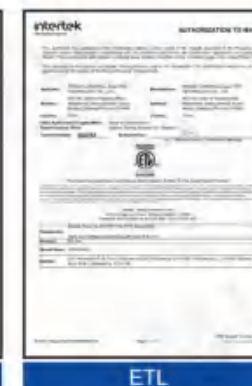
CE



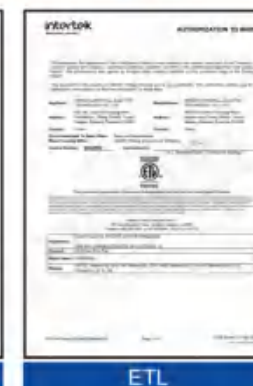
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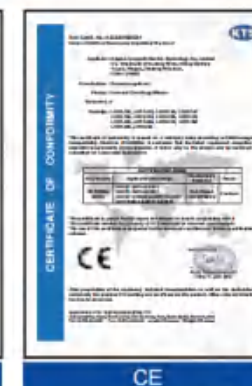
ETL



ETL



ETL



CE



CE



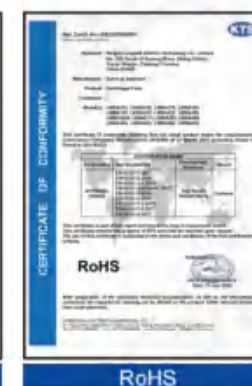
ISO 9001



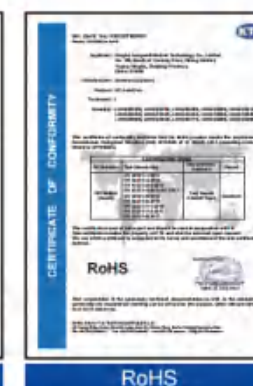
ISO 9001



RoHS



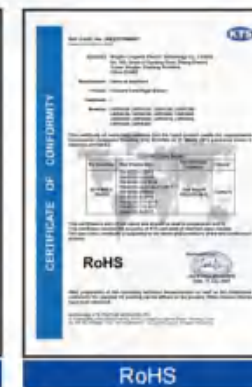
RoHS



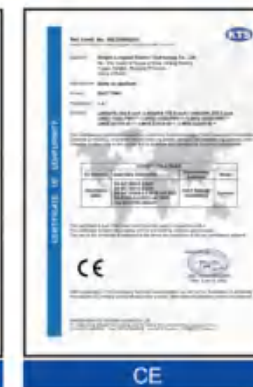
RoHS



RoHS



RoHS



CE



CE



CE

Mainly Application

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



Grow Tent



Bathroom Ventilation



Primary Air System



Air Conditioning Vent



Kitchen Ventilation

EC Plastic Inline Duct Fan

Professional HVAC Fan & Motors Manufacturer



Type Code

LW D E 3G 100 - I S - 01

Series number

T-400V S-230V U-115V
L-12V M-24V H-48V Z-310V

I-Inline

Outlet diameter

3G-3 Phase EC Motor

A-AC D-DC E-EC

D-Duct fan

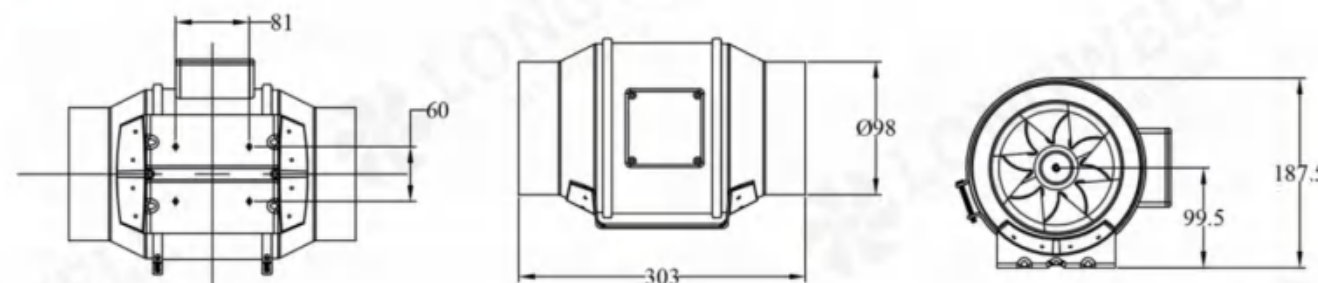
Longwell

LWDE3G100-IS-01



Technical Specifications

Model	LWDE3G100-IS-01	Voltage	110V-240V
Frequency	50/60Hz	Power	35W
Fan Speed	2800RPM	Speed Control	0-10V
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		

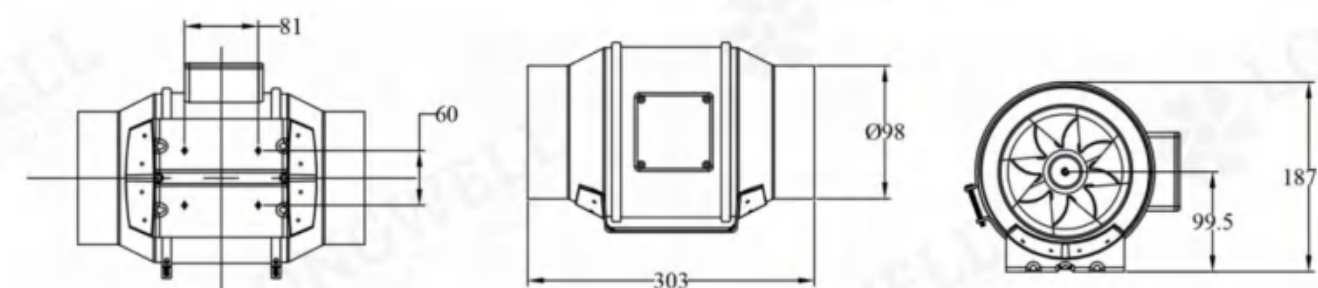


LWDE3G100-IS-03



Technical Specifications

Model	LWDE3G100-IS-03	Voltage	110V-240V
Frequency	50/60Hz	Power	35W
Fan Speed	2800RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Intelligent controller With temperature & humidity function Speed control/Timer Function		

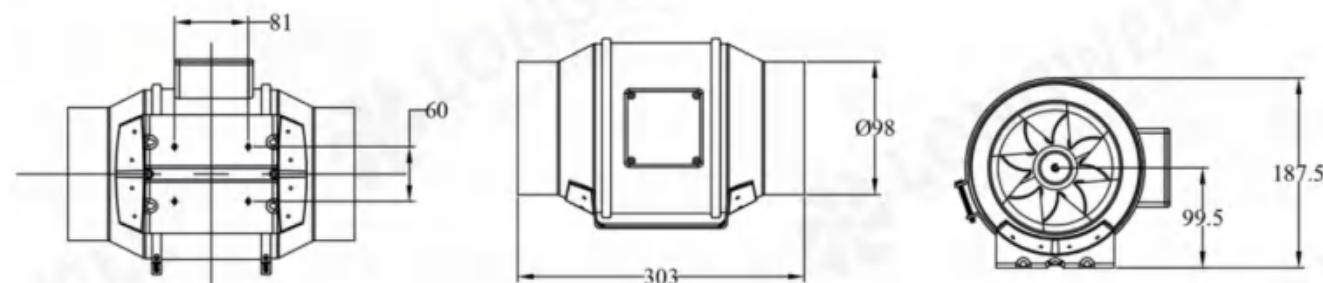


LWDE3G100-IS-05



Technical Specifications

Model	LWDE3G100-IS-05	Voltage	110V-240V
Frequency	50/60Hz	Power	35W
Fan Speed	2800RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		

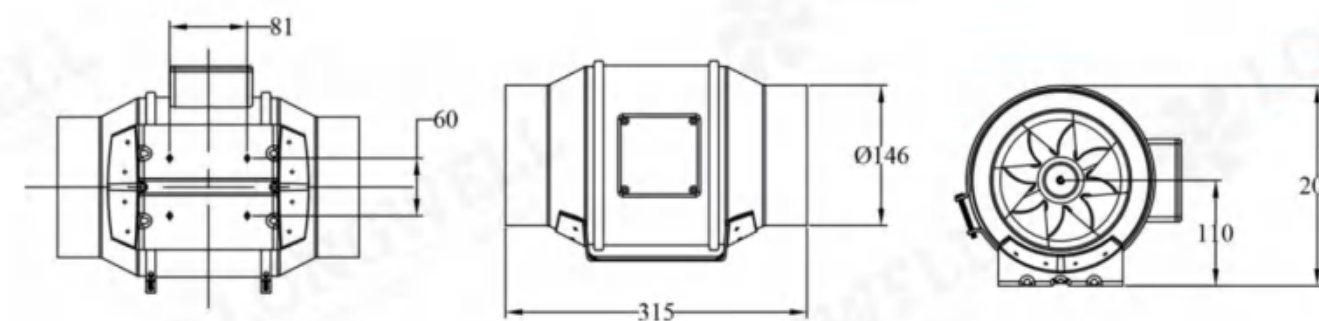


LWDE3G150-IS-01



Technical Specifications

Model	LWDE3G150-IS-01	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2800RPM	Speed Control	0-10V
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		

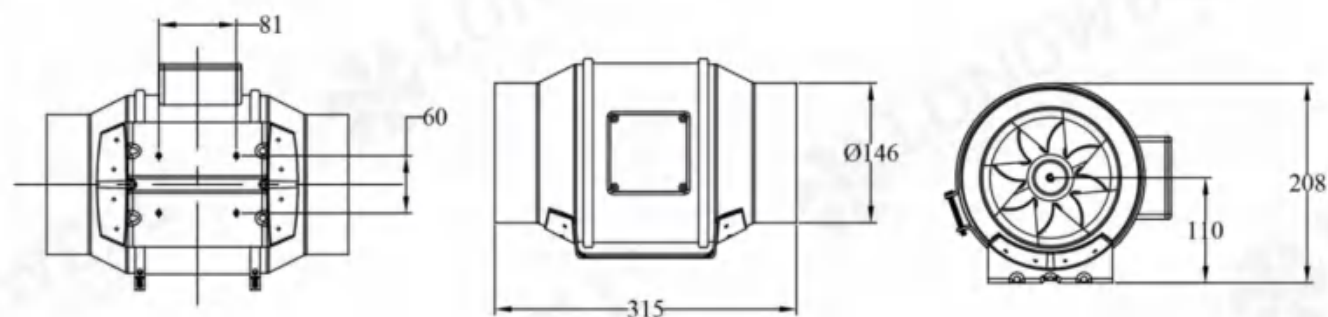




LWDE3G150-IS-03

Technical Specifications

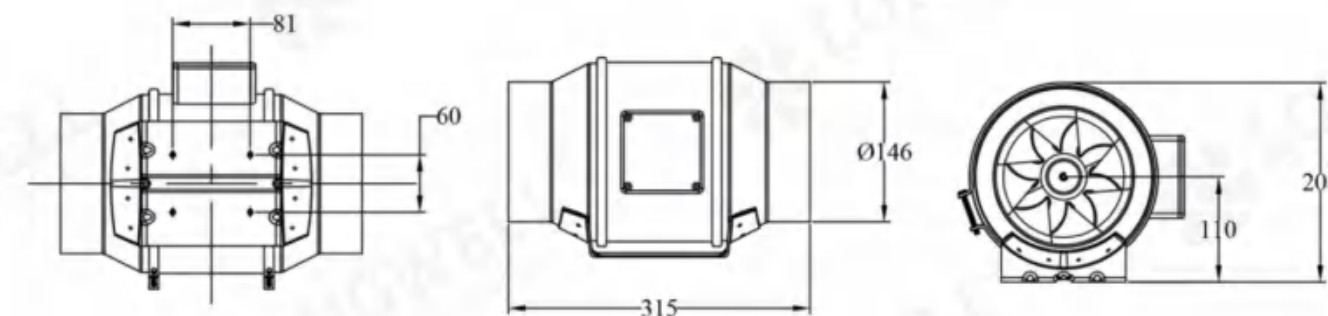
Model	LWDE3G150-IS-03	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2800RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Intelligent controller with temperature & humidity function Speed control/Timer Function		



LWDE3G150-IS-05

Technical Specifications

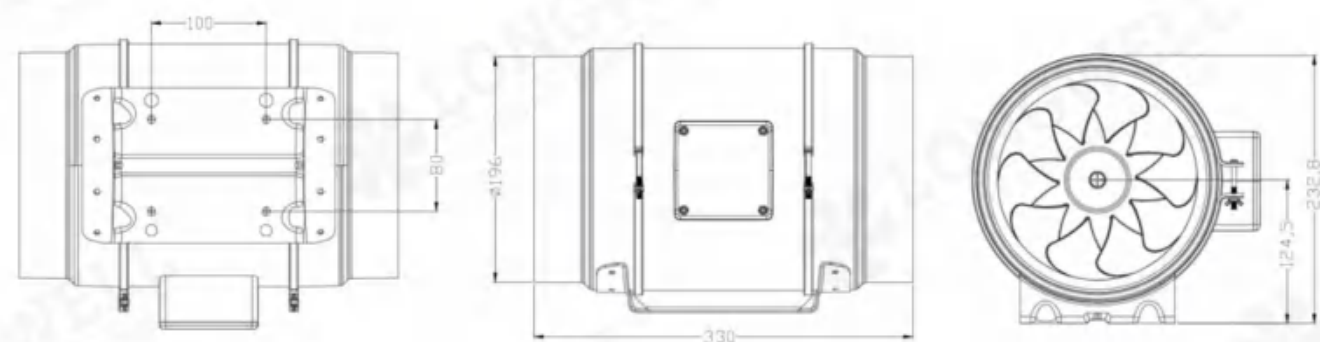
Model	LWDE3G150-IS-05	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2800RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		





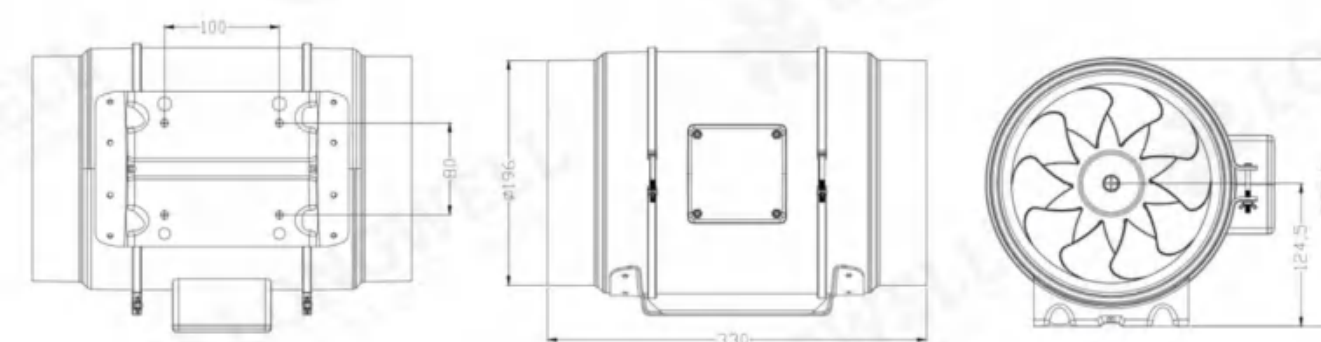
Technical Specifications

Model	LWDE3G200-IS-01	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2000RPM	Speed Control	0-10V
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		



Technical Specifications

Model	LWDE3G200-IS-03	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2000RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Intelligent controller with temperature & humidity function Speed control/Timer Function		



LWDE3G200-IS-05

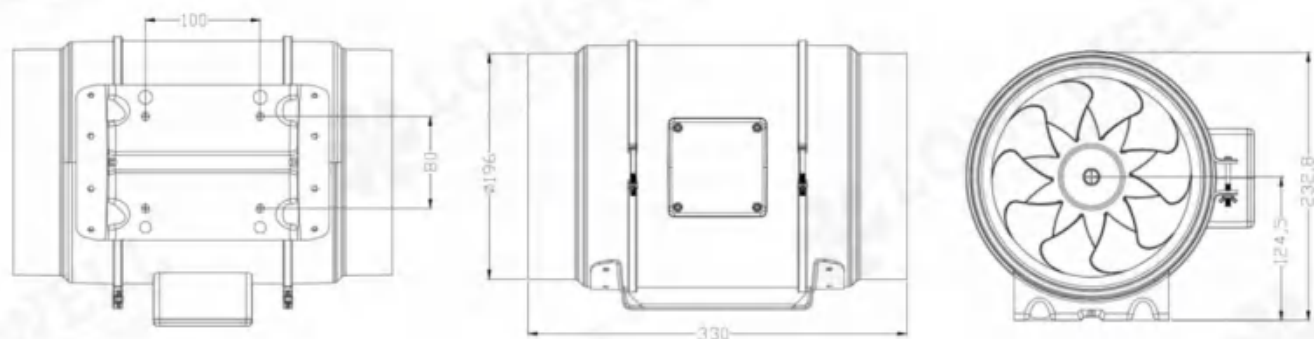


LWDE3G200-IS-06



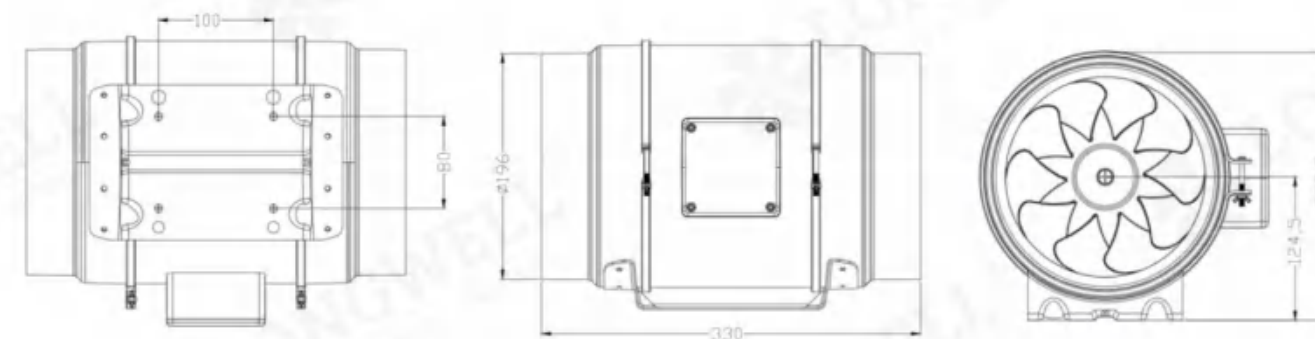
Technical Specifications

Model	LWDE3G200-IS-05	Voltage	110V-240V
Frequency	50/60Hz	Power	70W
Fan Speed	2000RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		



Technical Specifications

Model	LWDE3G200-IS-06	Voltage	110V-240V
Frequency	50/60Hz	Power	180W
Fan Speed	3000RPM	Speed Control	0-10V
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		

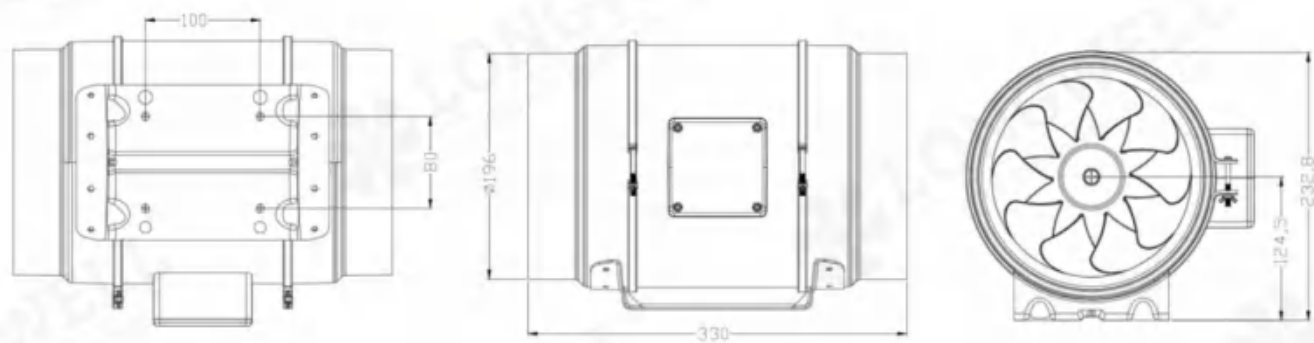


LWDE3G200-IS-08



Technical Specifications

Model	LWDE3G200-IS-08	Voltage	110V-240V
Frequency	50/60Hz	Power	180W
Fan Speed	3000RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Knob speed control		

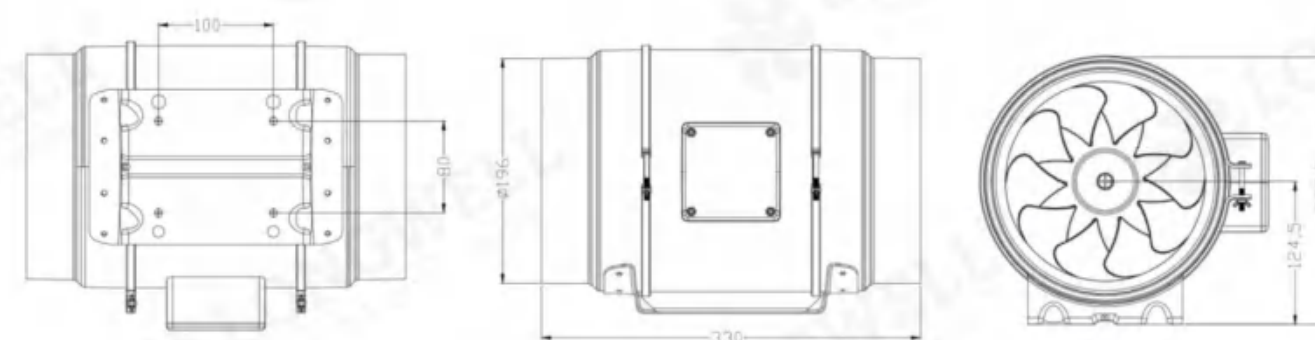


LWDE3G200-IS-09



Technical Specifications

Model	LWDE3G200-IS-09	Voltage	110V-240V
Frequency	50/60Hz	Power	180W
Fan Speed	3000RPM	Speed Control	PWM
Power Cord Length	1.5m	Control Wire Length	2.5m
Control Method	Intelligent controller with temperature & humidity function Speed control/Timer Function		





EC Plastic Inline Duct Fan

PP pure engineering polymer composite raw material, anti-aging, anti-color fading, corrosion-resistant; The adoption of EC variable frequency motors enables the fan to achieve higher operational efficiency and precise speed regulation capabilities. It can be customized with various control methods according to the products in use, such as voltage speed regulation, PWM signal speed regulation, and pulse speed regulation. The air volume can be flexibly adjusted according to actual needs, enhancing the overall performance of the system. The fan flow channel is designed with fluid dynamics. The product features high air pressure, large air volume, high efficiency, low energy consumption and low noise. It has a unique clamp design, which is easy to disassemble and assemble, tightly sealed and convenient for installation and maintenance.



High Wind Pressure



High Air Volume



Low Power Consumption



Long Lifespan



Low Noise



Protection Grade IP44

Intelligent Controller

C1 Internet of Things Intelligent Controller



- Internet of Things remote control
- Temperature/humidity sensing function
- Multi-speed speed regulation

- Automatic temperature and humidity speed regulation: Intelligently maintain a comfortable indoor environment, featuring both energy conservation and convenience.
- Energy-saving delayed shutdown: Preset fan operation time. It will automatically shut down when the set delay is reached.
- Multi-speed adjustment: Meeting the needs of different scenarios and groups of people, enhancing the flexibility and practicality of the equipment.
- IoT APP remote control: Relying on wireless connection to achieve device status monitoring and intelligent linkage.

C2 Pulse knob Speed Regulation



- PWM pulse speed regulation

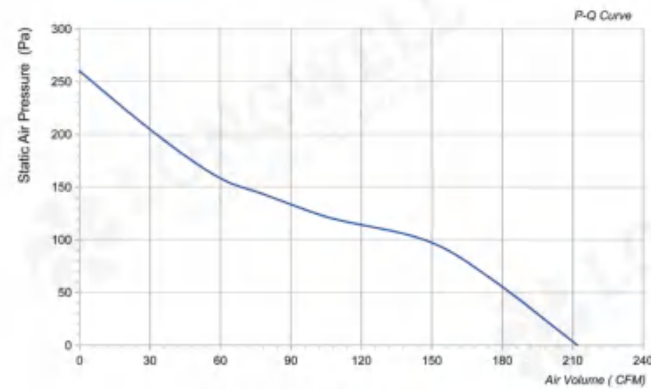
- Adjustment method: From small to large.
- Control accuracy: Stepless continuous adjustment.
- Precise control: 9 levels of fresh air, suitable for various application scenarios.
- Reliable and durable: Utilizing digital pulse technology and designed to high standards.

Product Parameters

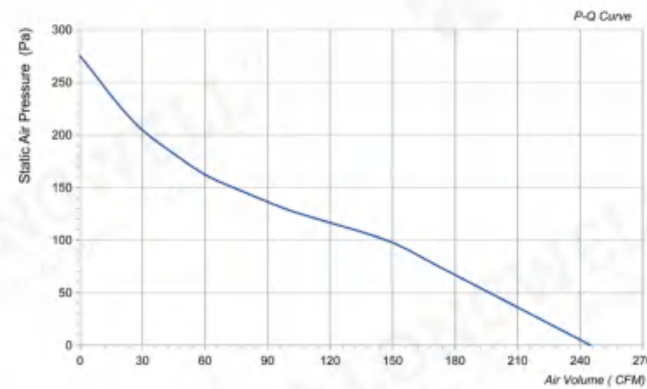
Performance Parameter

Model	Voltage (V)	Power (W)	Current (Amps)	Speed (RPM)	Air Flow (CFM)	Pressure (Pa)	Weight (kg)
LWDE3G100-IS-05	110-240	35	≤0.35	2800	212	260	1.65
LWDE3G125-IS-01	110-240	35	≤0.35	3000	245	275	1.8
LWDE3G150-IS-05	110-240	70	≤0.8	2800	402	450	2.2
LWDE3G200-IS-05	110-240	180	≤2.5	3000	830	720	3.2

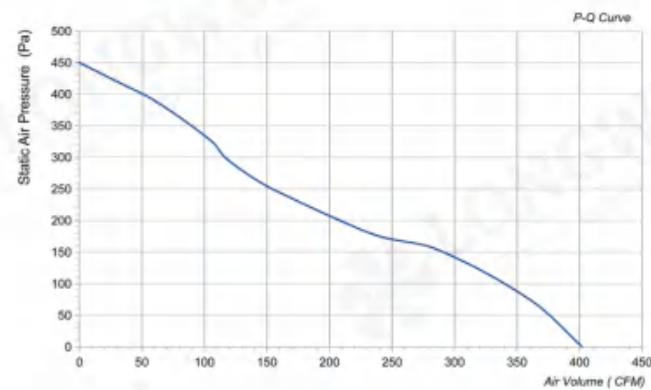
Performance Curves



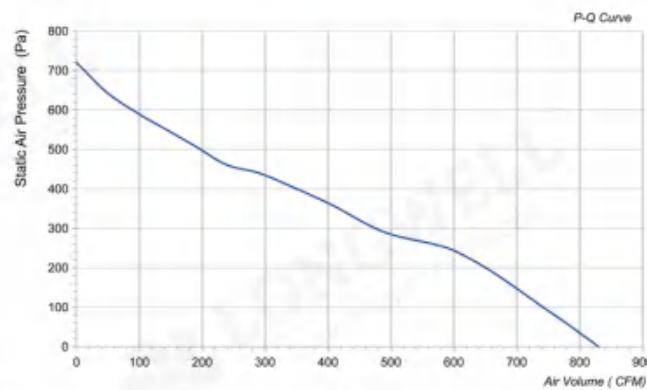
LWDE3G100-IS-05



LWDE3G125-IS-01



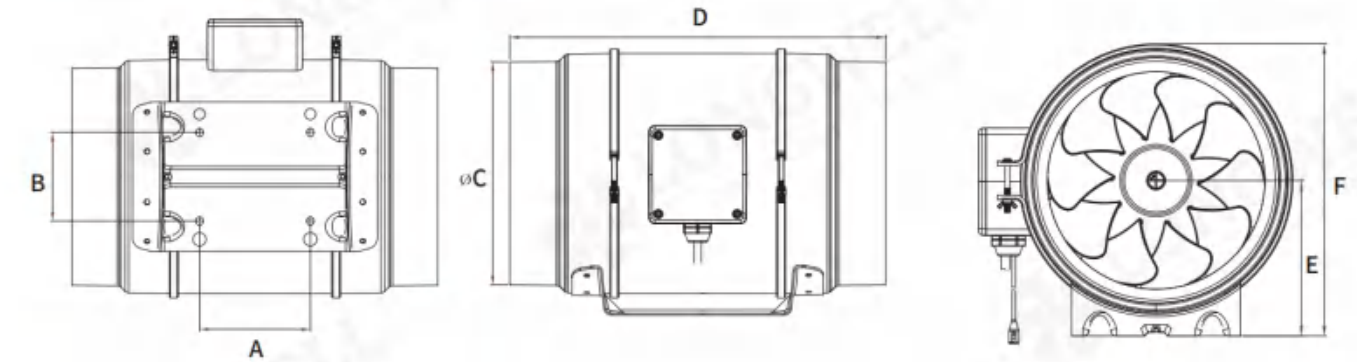
LWDE3G150-IS-05



LWDE3G200-IS-05

Product Parameters

Structure and Size(mm)



Model	A	B	ΦC	D	E	F
LWDE3G100-IS-05	81	60	98	303	99.5	187.5
LWDE3G125-IS-01	81	60	123	263	123	94.7
LWDE3G150-IS-05	81	60	146	315	110	208
LWDE3G200-IS-05	100	80	196	330	124.5	233

Inner Package Size

Model	LWDE3G100-IS-05	LWDE3G125-IS-01	LWDE3G150-IS-05	LWDE3G200-IS-05
Length×Width×Height	335×245×220mm	335×245×220mm	345×260×240mm	350×300×270mm

Outer Box Packing Size(4 units per box)

Model	LWDE3G100-IS-05	LWDE3G125-IS-01	LWDE3G150-IS-05	LWDE3G200-IS-05
Length×Width×Height	500×345×453mm	500×345×453mm	540×355×493mm	620×363×573mm

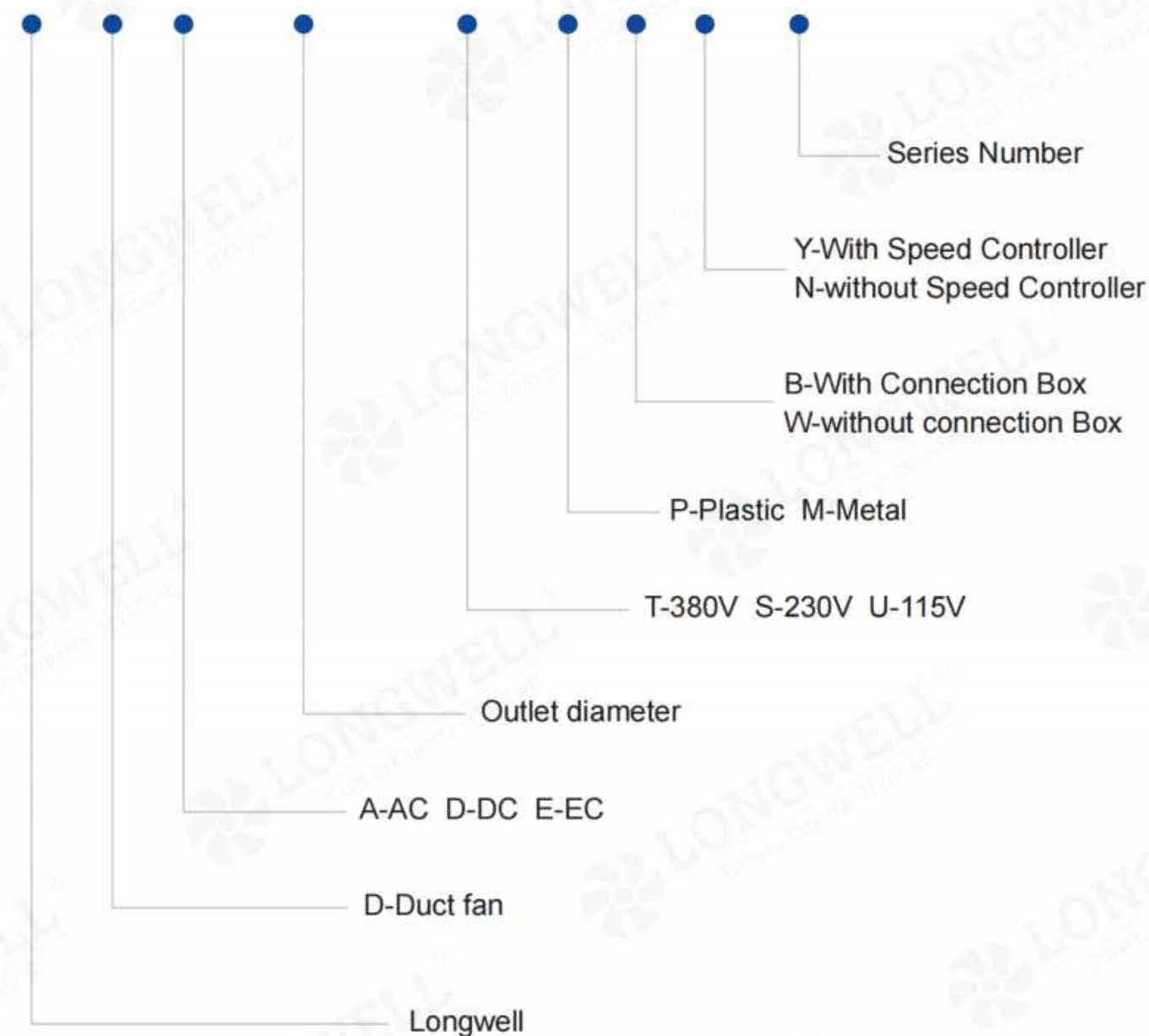
Inline Pressurized Duct Fan

Professional HVAC Fan & Motors Manufacturer



Type Code

LW D A - 100(4") S - P B N - 001





Inline Pressurized Duct Fan

Internal pressurized duct fan, specially designed for heating/air conditioning/home ventilation! The knob speed regulation precisely controls the air flow. Standard power controller/cable kit, DIY for beginners, ready to use immediately! Anti-vibration and noise reduction technology ensures low-resistance airflow, easily enhancing air circulation efficiency.



High Wind Pressure



High Air Volume



Low Power Consumption



Long Lifespan



Low Noise



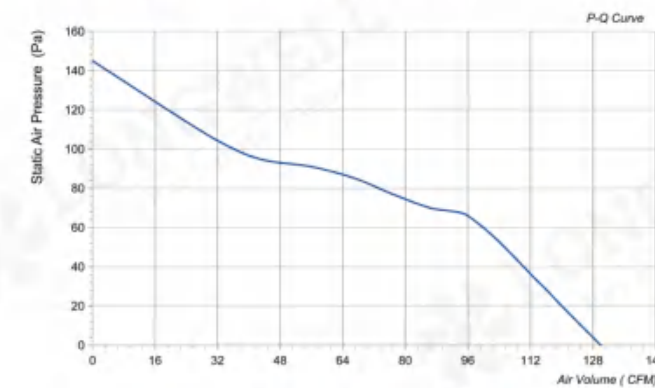
Protection Grade IP44

Product Parameters

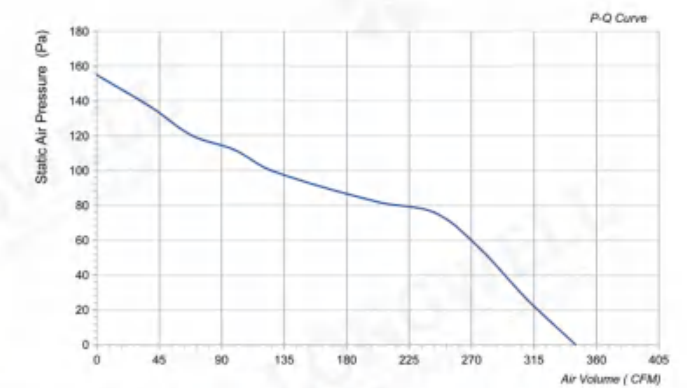
Performance Parameter

Model	Voltage (V)	Power (W)	Current (Amps)	Speed (RPM)	Air Flow (CFM)	Pressure (Pa)	Weight (kg)
LWDA-100(4")S-PWN-10	110-240	6	≤0.5	4500	130	145	0.48
LWDA-150(6")S-PWN-09	110-240	19	≤1.0	3000	345	155	0.7

Performance Curves

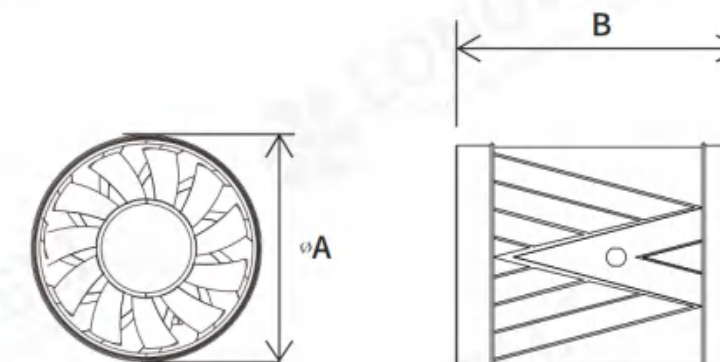


LWDA-100(4")S-PWN-10



LWDA-150(6")S-PWN-09

Structure and Size(mm)



Model	ΦA	B
LWDA-100(4")S-PWN-10	98	185
LWDA-150(6")S-PWN-09	147	185

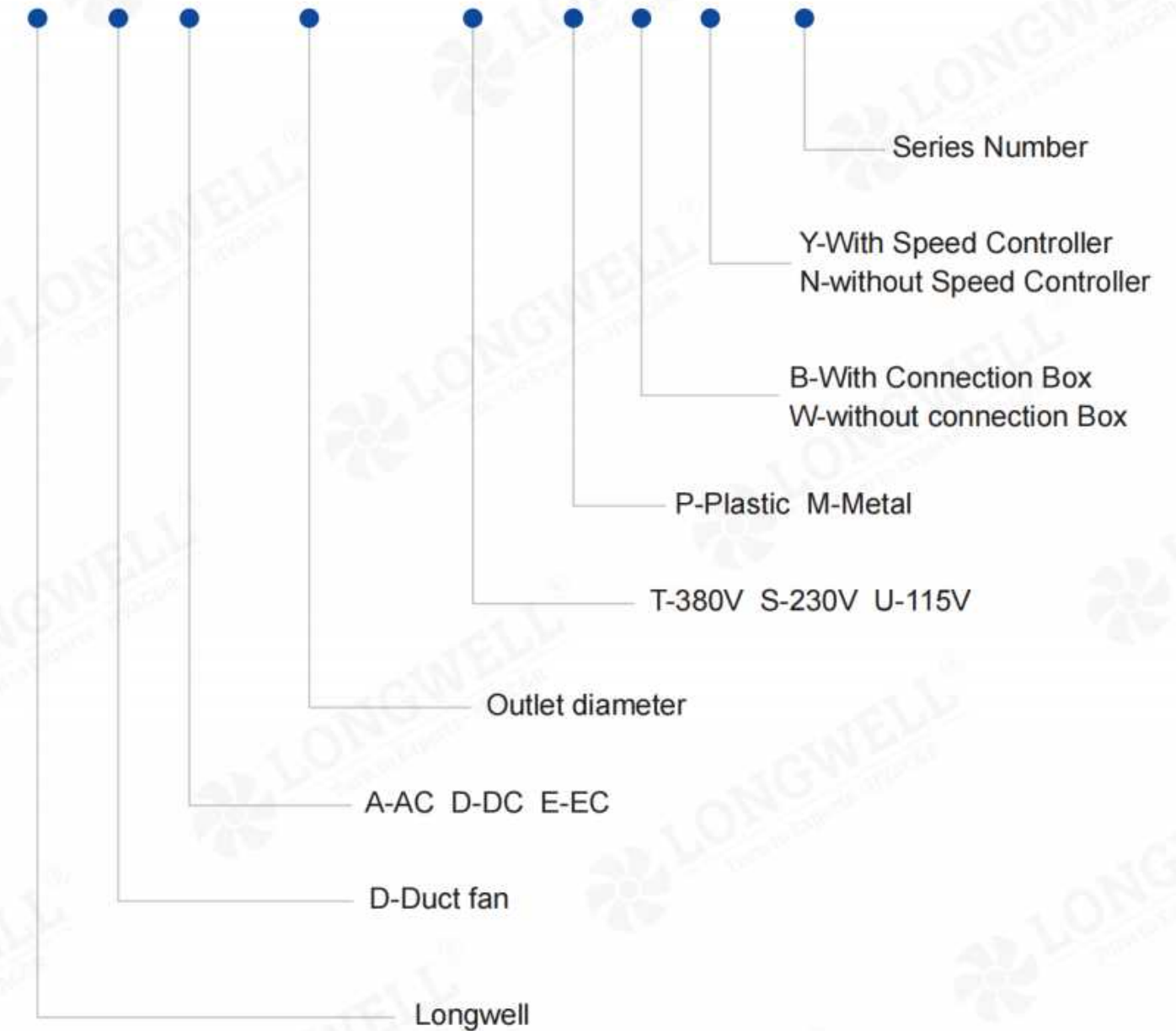
Direct Discharge Centrifugal Blower

Professional HVAC Fan & Motors Manufacturer



Type Code

LW D A - 100(4") S - P W N - 20





Direct Discharge Centrifugal Blower

Low-noise design, with embedded deflector plates, can centrally cut off the kinetic energy of turbulent flow and deliver air to your target location in a fast, reasonable and quiet manner.

Easy to install, convenient to disassemble and maintain, the lightweight and compact fan takes up the least space and is very suitable for easy deployment in narrow spaces.

Professional fluid design combined with the efficient deflector function enables the air volume and pressure to be maximized.



High Wind Pressure



High Air Volume



Low Power Consumption



Long Lifespan



Low Noise



Protection Grade IP44

Intelligent Controller

C1 Internet of Things intelligent controller



- Internet of Things remote control
- Temperature/humidity sensing function
- Multi-speed speed regulation

- Automatic temperature and humidity speed regulation: Intelligently maintain a comfortable indoor environment, featuring both energy conservation and convenience.
- Energy-saving delayed shutdown: Preset fan operation time. It will automatically shut down when the set delay is reached.
- Multi-speed adjustment: Meeting the needs of different scenarios and groups of people, enhancing the flexibility and practicality of the equipment.
- IoT APP remote control: Relying on wireless connection to achieve device status monitoring and intelligent linkage.

C2 Pulse knob Speed Regulation



- PWM pulse speed regulation

- Adjustment method: From small to large.
- Control accuracy: Stepless continuous adjustment.
- Precise control: 9 levels of fresh air, suitable for various application scenarios.
- Reliable and durable: Utilizing digital pulse technology and designed to high standards.

Intelligent Controller

C3 Pulse knob Speed Regulation



Rotary knob stepless speed regulation

- Adjustment method: From small to large.
- Simple operation: Adjust the fan easily.
- Smooth and comfortable: The wind speed adjustment is stable and the noise control is low.
- Strong compatibility: Provide stable and reliable general solutions.

Multiple Installation Methods

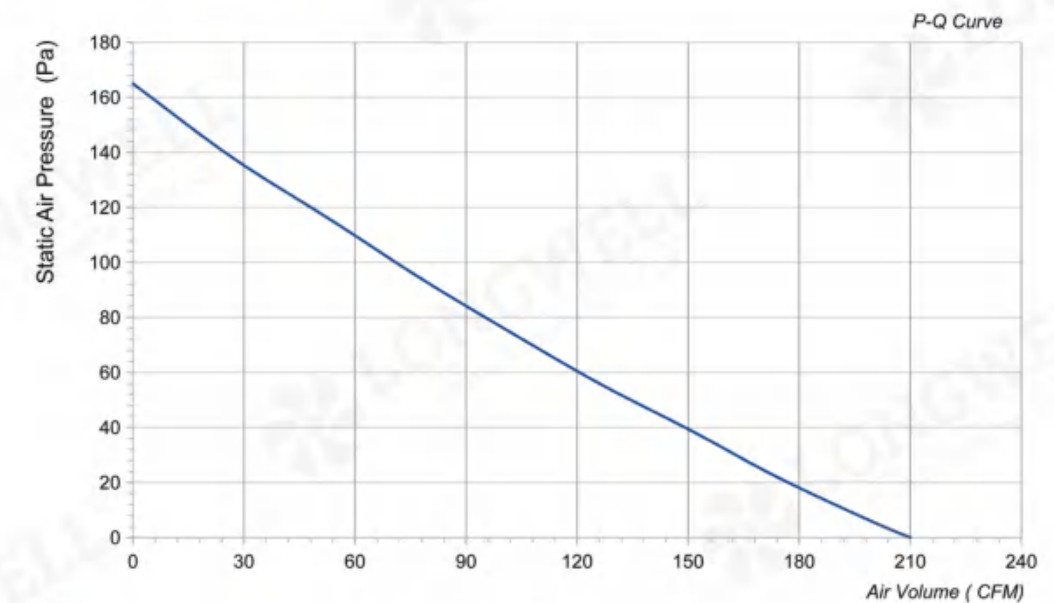


Product Parameters

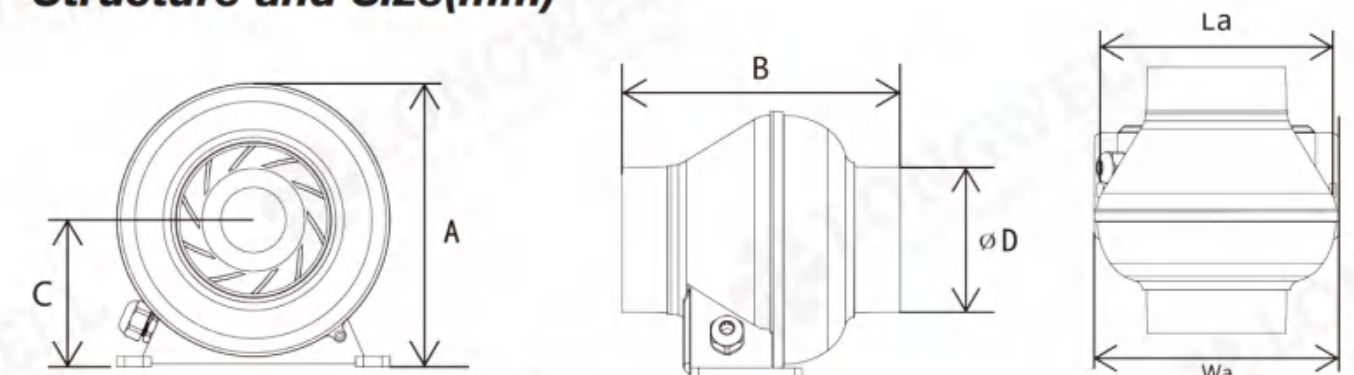
Performance Parameter

Model	Voltage (V)	Power (W)	Current (Amps)	Speed (RPM)	Air Flow (CFM)	Pressure (Pa)	Weight (kg)
LWDA-100(4")S-PWN-20	110-240	18	≤0.2	2800	210	165	1.0

Performance Curves



Structure and Size(mm)



Model	A	B	C	ΦD	La	Wa
LWDA-100(4")S-PWN-20	178.2	187	92.5	97	163.5	172