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

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

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

—— EC Plastic Inline Duct Fan

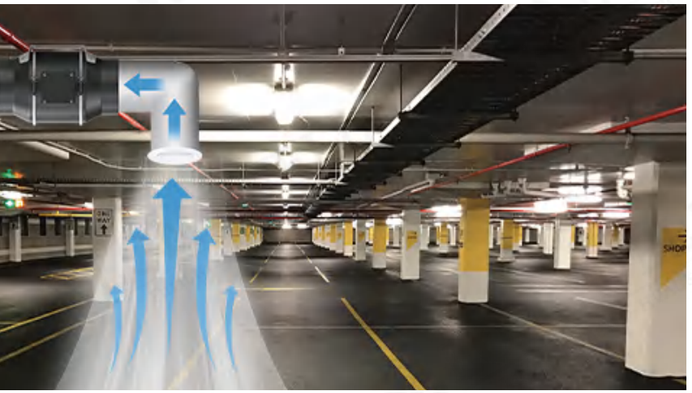
Longwell Group
Longwell-China
Longwell-USA
Longwell-Russia
Longwell-Europe

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CATALOGUE

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29-34 Direct Discharge Centrifugal Blower









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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.

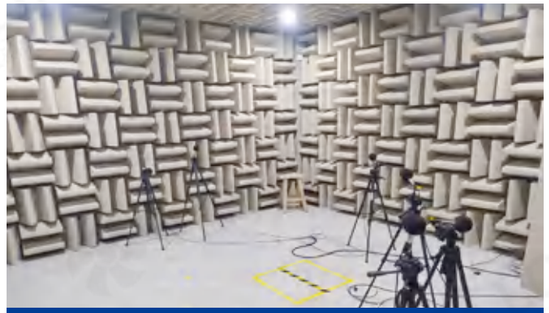
Equipped with advanced testing labs and production facilities, including a B&K noise lab, CFD simulation lab, air dynamics test chambers, automatic welding machines, CNC machining centers, and auto robot injection machines, we ensure efficient production and on-time delivery.

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.

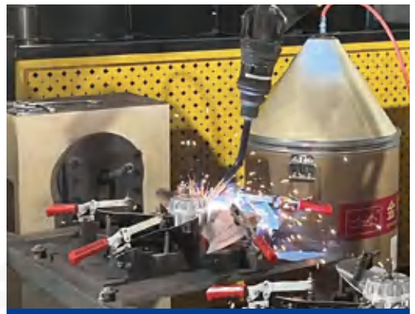
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials 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

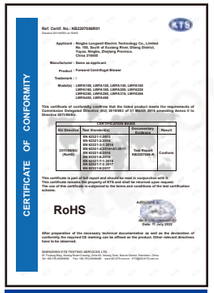

Own-Brand


Own-Brand


ETL


ETL

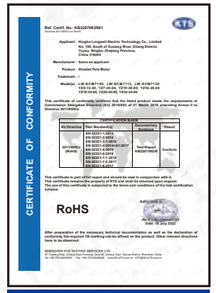

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL

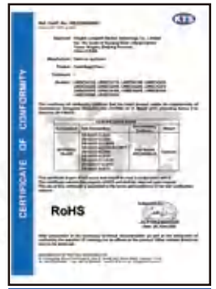

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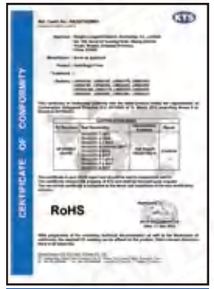

CE

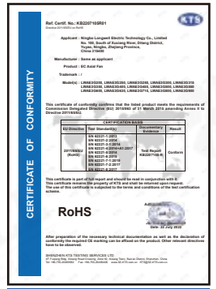

CE

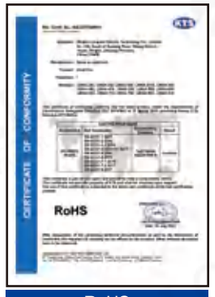

ISO 9001


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

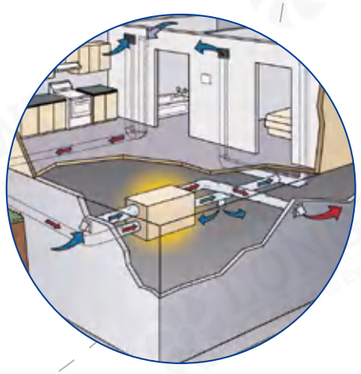




Grow Tent



Bathroom
Ventilation



Primary
Air System



Kitchen Ventilation



Air Conditiong Vent

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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

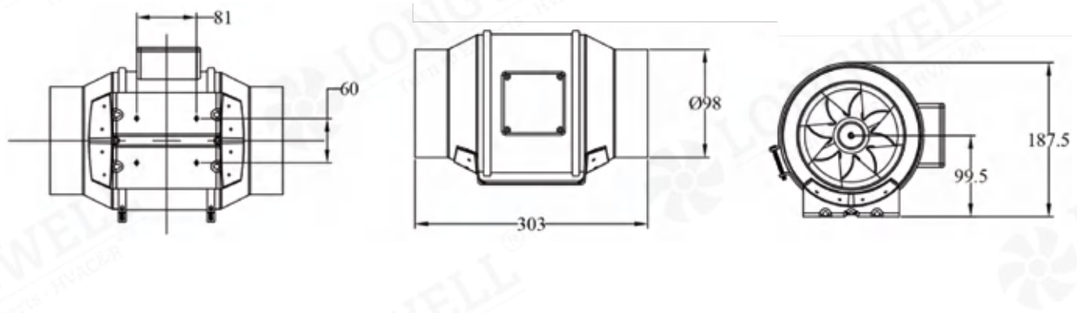
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LWDE3G100-IS-01

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		

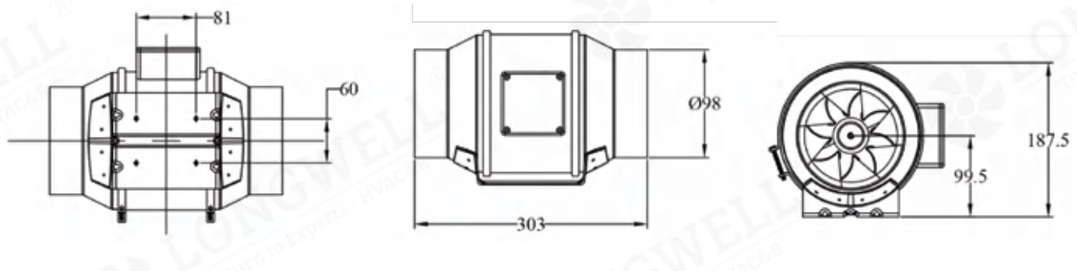




LWDE3G100-IS-03

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		



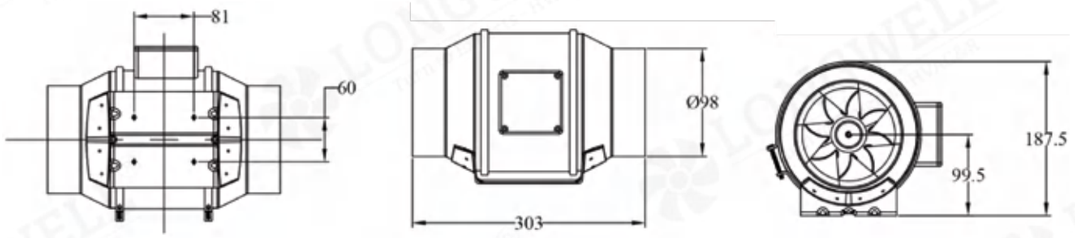
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LWDE3G100-IS-05



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		

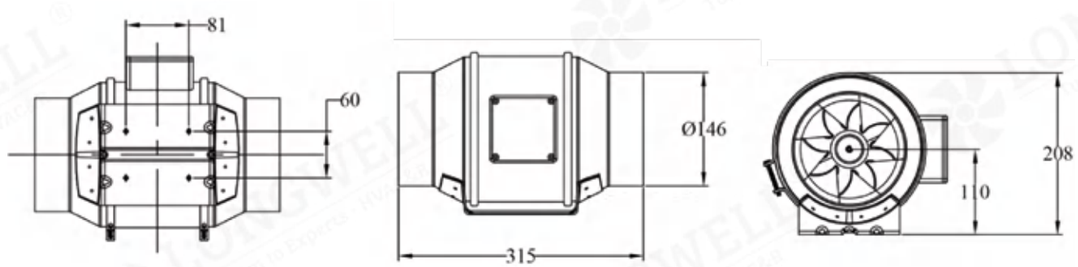


LWDE3G150-IS-01



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		



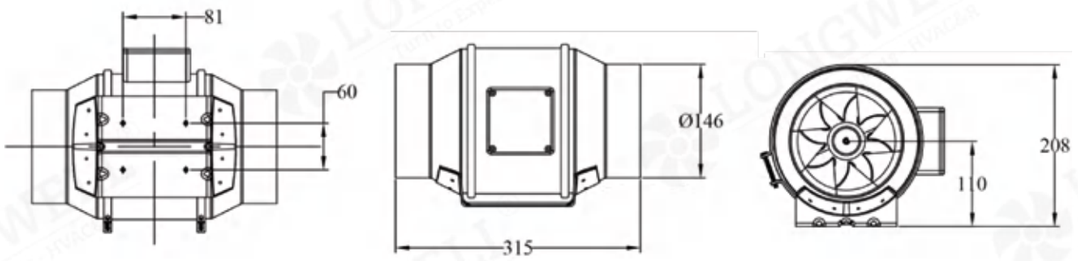
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LWDE3G150-IS-03



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		

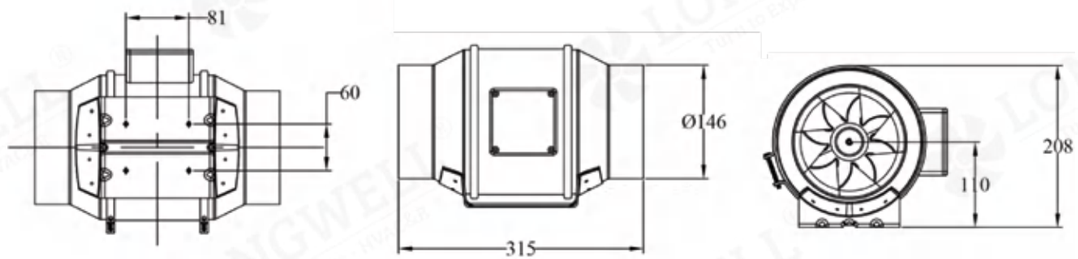


LWDE3G150-IS-05



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		



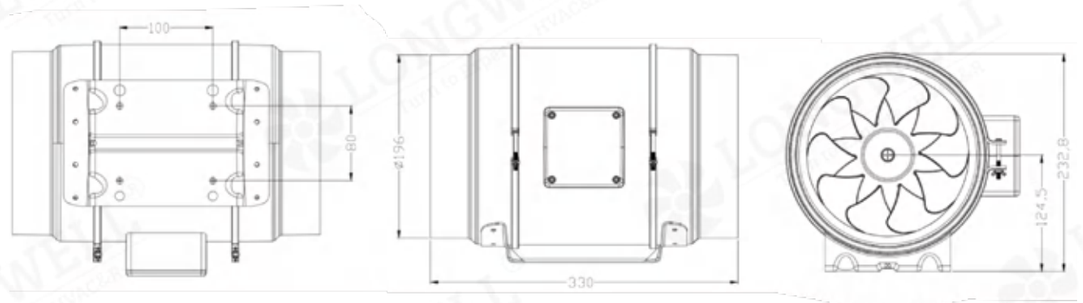
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LWDE3G200-IS-01

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		

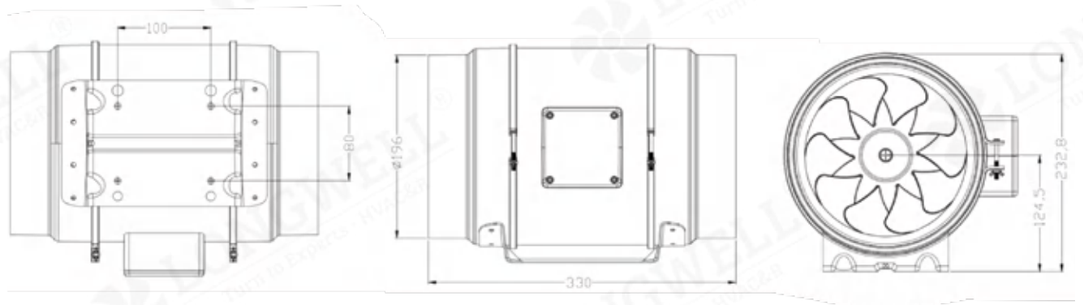




LWDE3G200-IS-03

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		



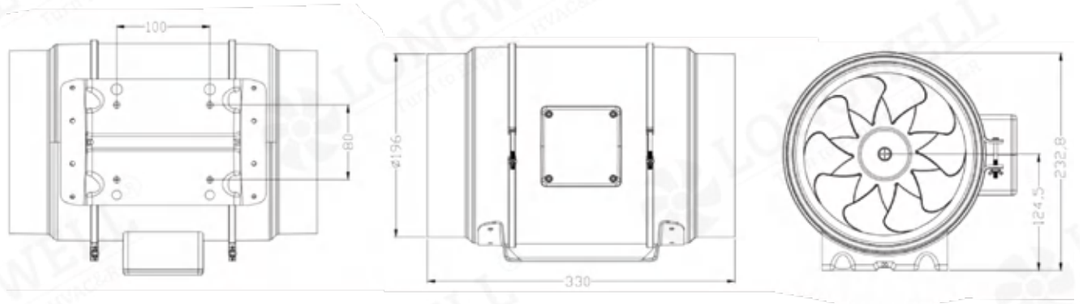
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LWDE3G200-IS-05



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		

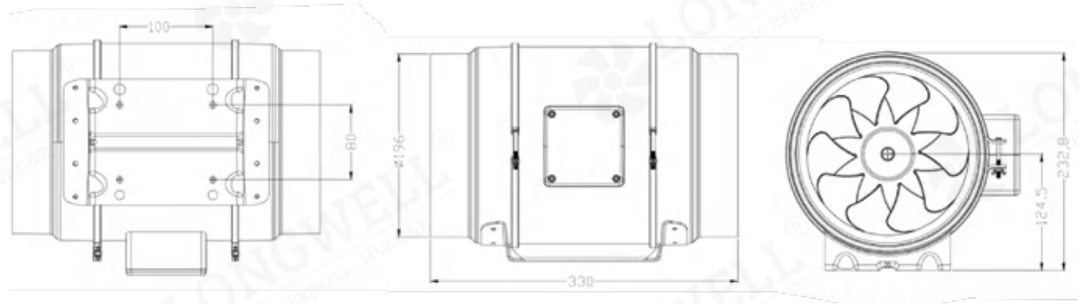


LWDE3G200-IS-06



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		



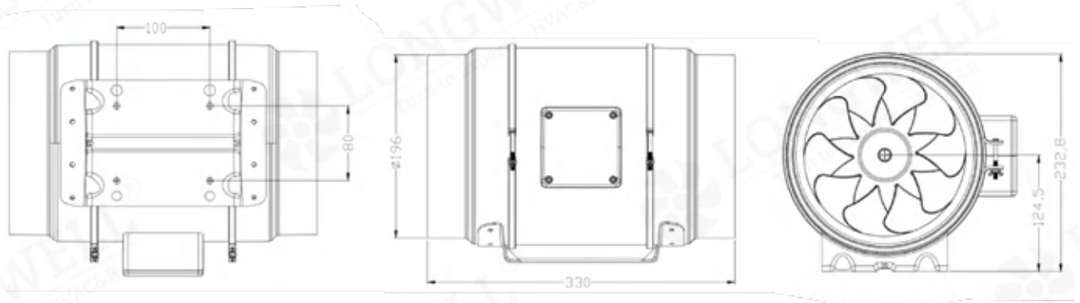
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LWDE3G200-IS-08

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		

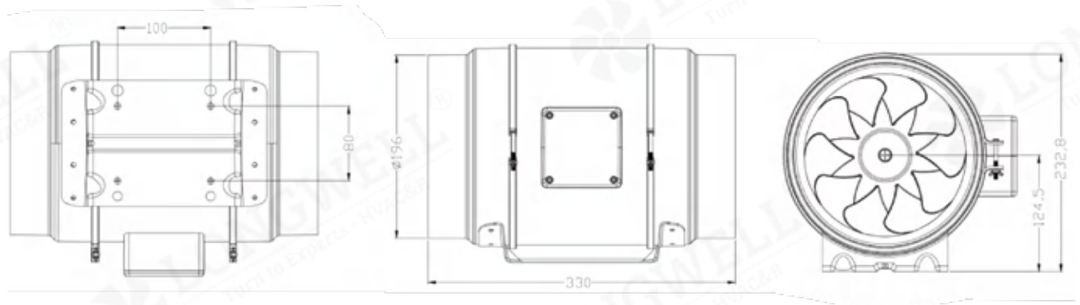




LWDE3G200-IS-09

Technical Specifications

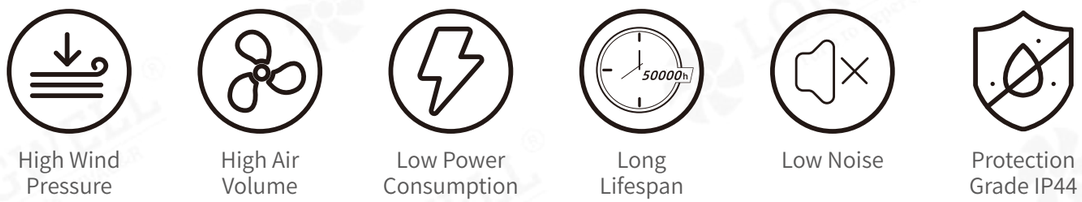
Model	LWDE3G200-IS-09	**Voltage**	110V-240V
Frequency	50/60Hz	**Power**	180W
Fan Speed	3000RPM	**Speed Control**	PWM
Power Cord Length	1.5m	**Control Wire Length**	2.5m
Control Method	Intelligent controller with temperature & humidity function Speed control/Timer Function		





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 over all 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

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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 groupsof 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.

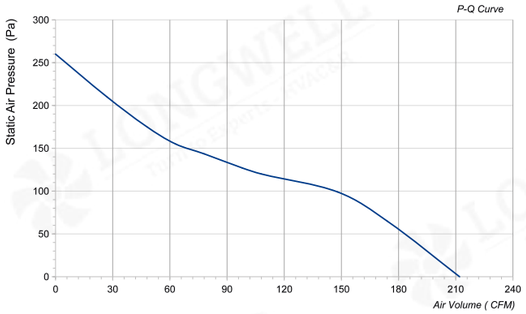
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Product Parameters

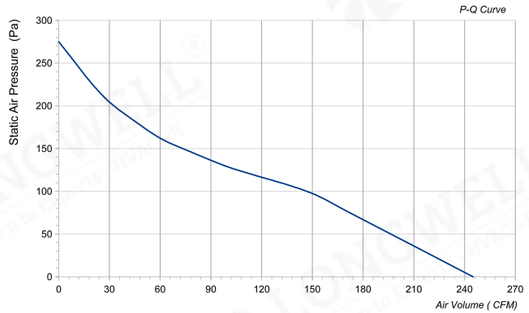
Performance Parameter

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

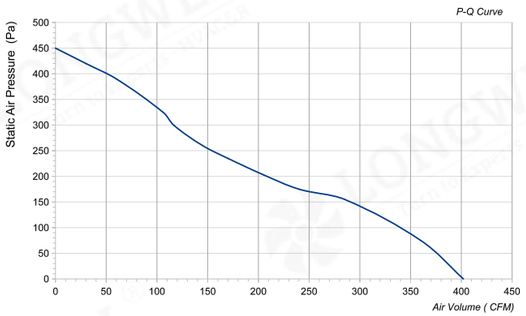
Performance Curves



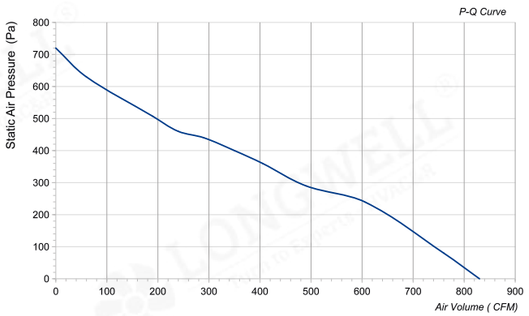
LWDE3G100-IS-05



LWDE3G125-IS-01



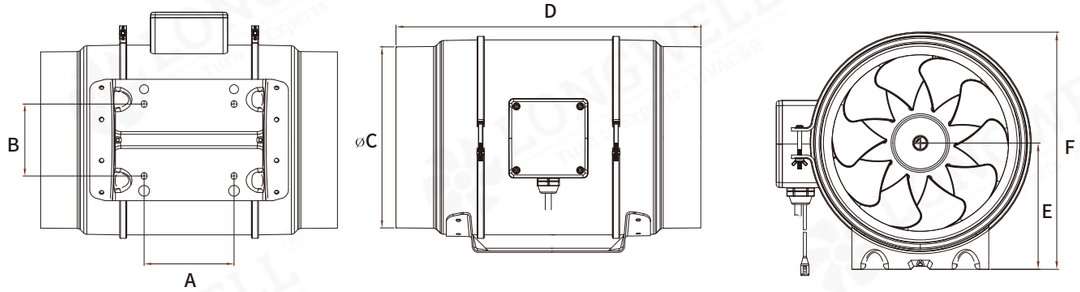
LWDE3G150-IS-05



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



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Type Code

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

- 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



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

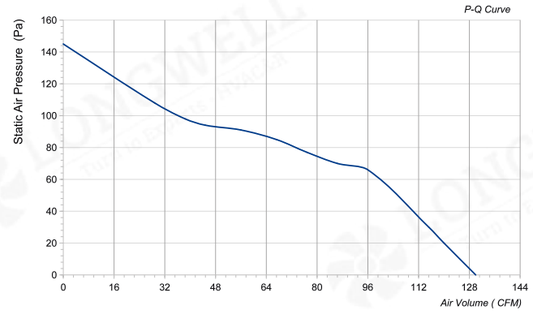

Protection Grade IP44

Product Parameters

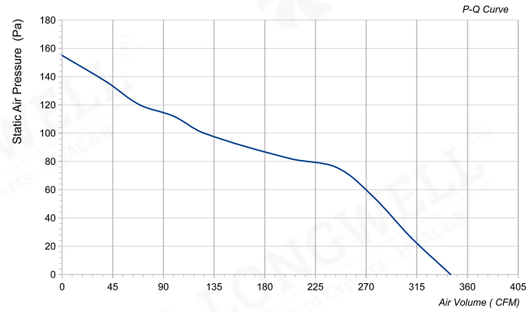
Performance Parameter

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

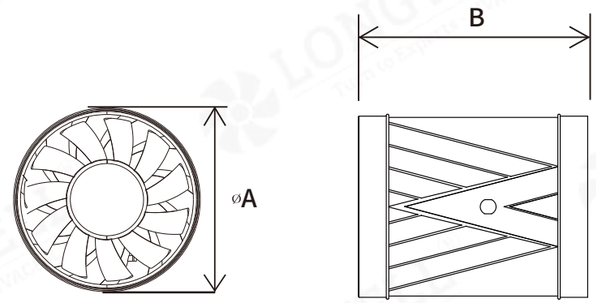


LWDA-100(4")S-PWN-10



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



Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

Type Code

LW D A - 100(4”) S - P W N - 20

- Series Number
- Y-With Speed Controller
  N-without Speed Controller
- B-With Connection Box
  W-without connection Box
- P-Plastic M-Metal
- T-380V S-230V U-115V
- Outlet diameter
- A-AC D-DC E-EC
- D-Duct fan
- Longwell



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

Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

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 groupsof 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

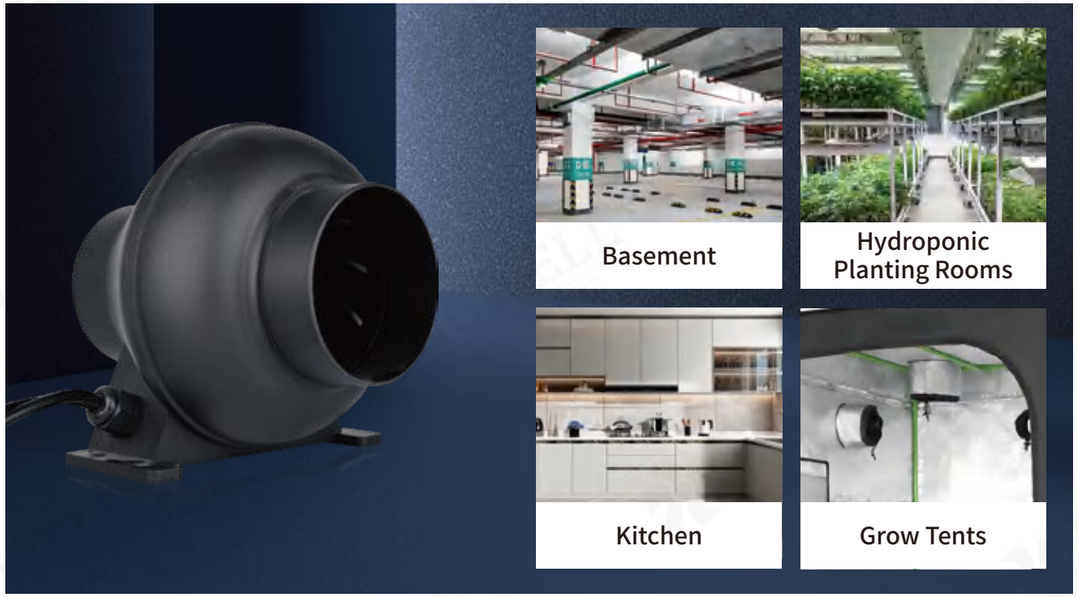




Rotary knob stepless speed regulation

- 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

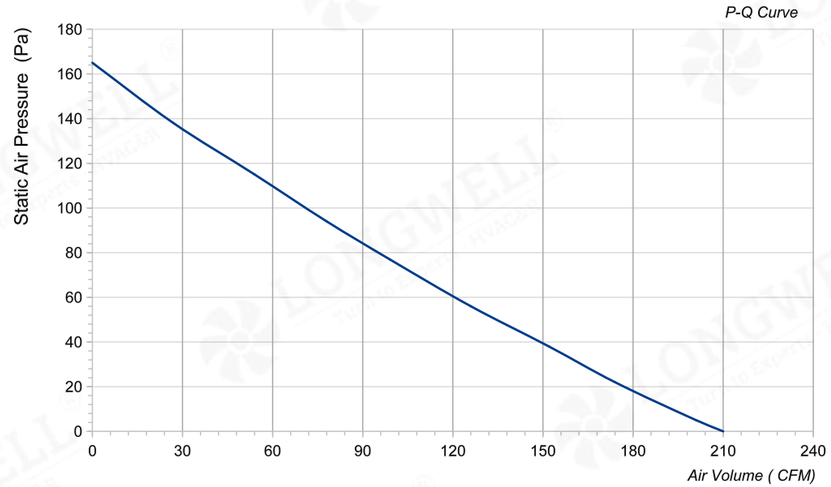


Product Parameters

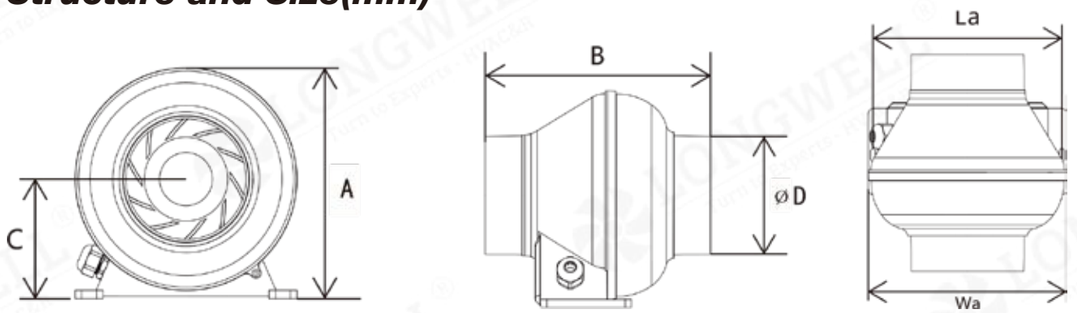
Performance Parameter

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