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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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 ETL 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

—— DC Dual Inlet Forward Centrifugal Blower

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

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CATALOGUE

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03-04 Testing and Standards

05 Type Code

07-22 DC Dual Inlet Forward Centrifugal Blower(Φ133-197)

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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.

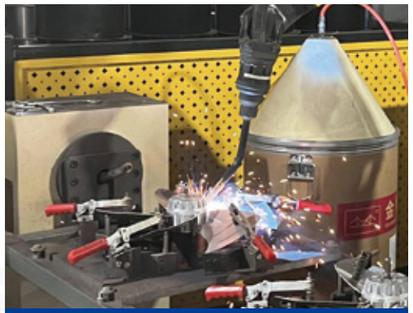
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials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

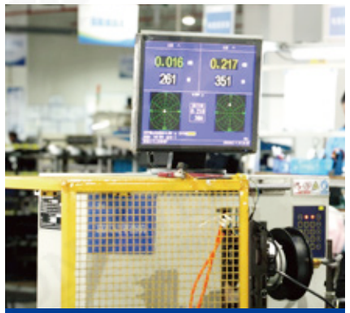
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

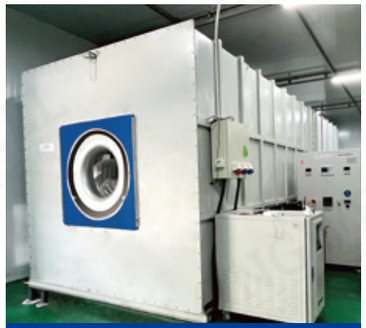


Balance Machine


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

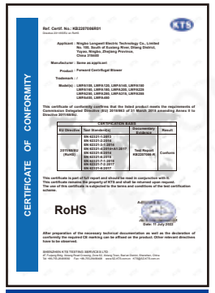

Own-Brand


Own-Brand


ETL


ETL

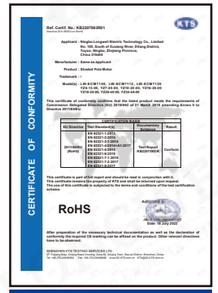

CE


RoHS

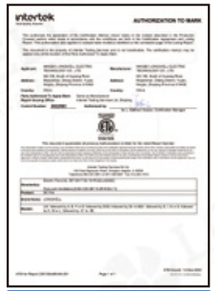

CE


CE


CE


RoHS


ETL


ETL


ETL


CE


CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

Type Code

LW F D 3G 133 - 092 D M - 01

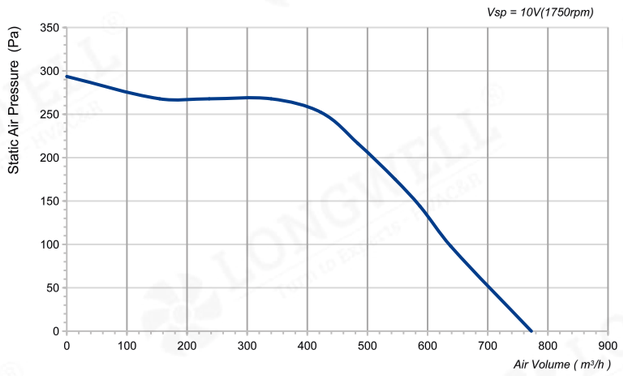
- Series number
- M-24V H-48V Z-310V
- N-Without housing/bracket
  S-Single inlet with housing
  D-Dual-inlet with housing
  P-with bracket
- Motor size:072/092/102/138/188/218
- Diameter of rotor
- 2E-2pole 4E-4pole 6E-6 pole 6D-6pole
  8D-8pole 3G-3 phase 1G-Single phase
- A-AC D-DC E-EC
- B-Backward F-Forward
- Longwell

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DC Dual Inlet Forward Centrifugal Blower



LWFD-133 Serise





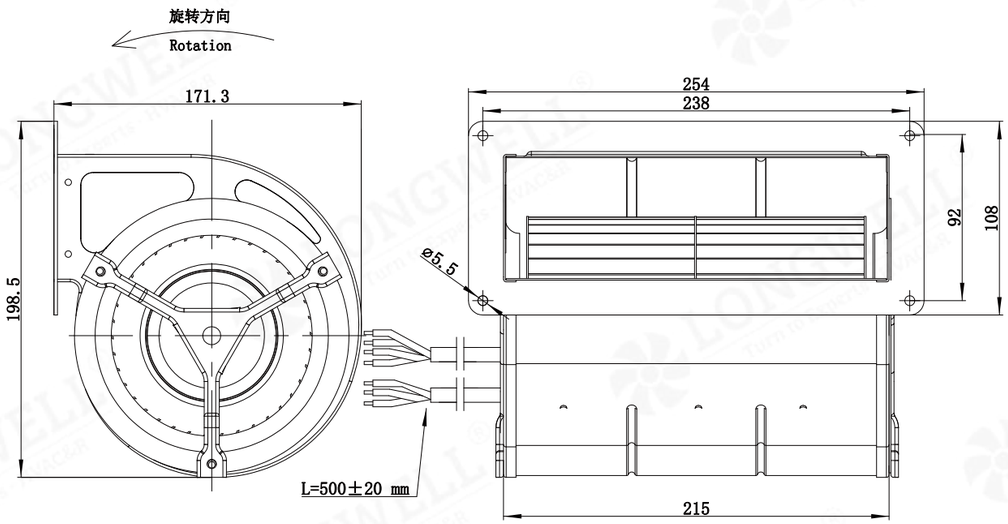
Product Characteristic

Material :	Galvanised sheet steel	Mode of Operation:	S1
Insulation Class:	F	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Operation Temperature:	-30℃～+60℃

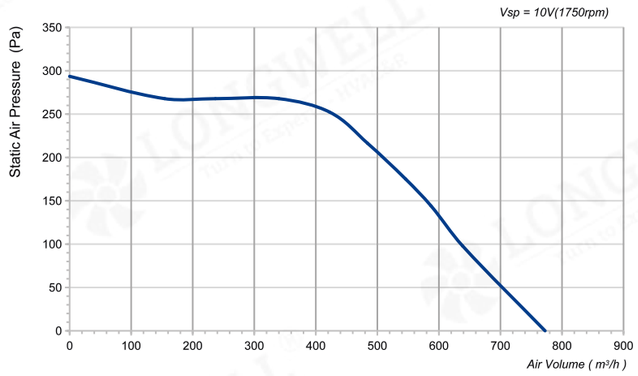
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-092DM-01	24	110	4.6	1750	773	294	66	/



LWFD-133 Serise





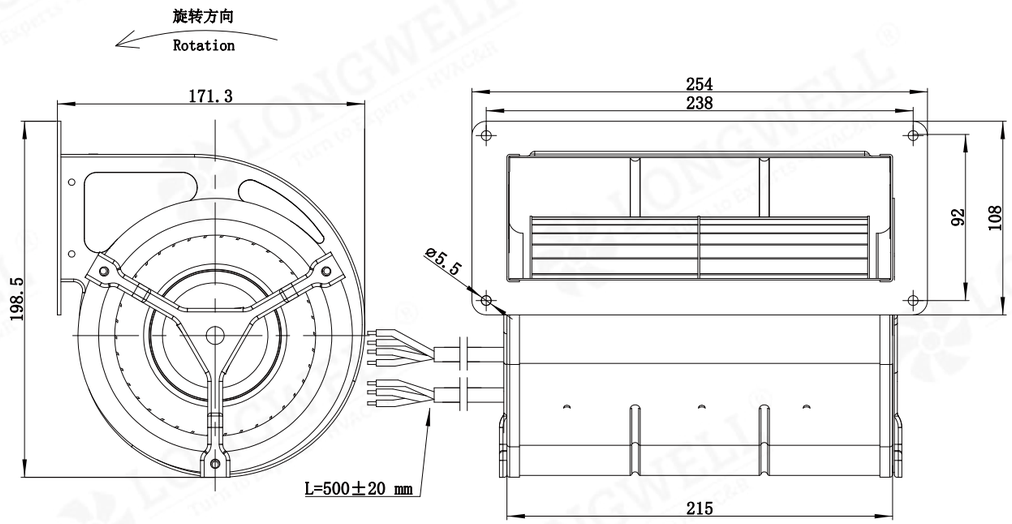
Product Characteristic

Material :	Galvanised sheet steel	Mode of Operation:	S1
Insulation Class:	F	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Operation Temperature:	-30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

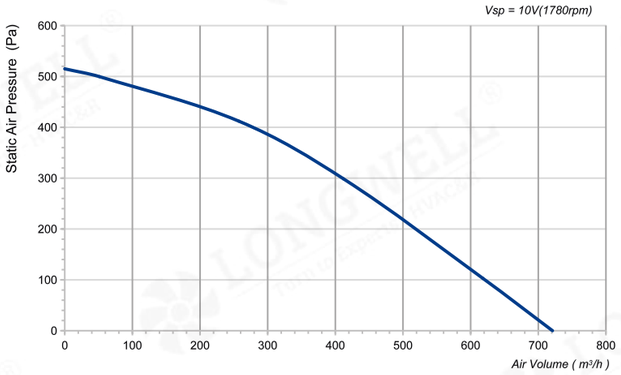
Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-092DH-01	48	110	2.3	1750	773	294	66	/



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LWFD-133 Serise





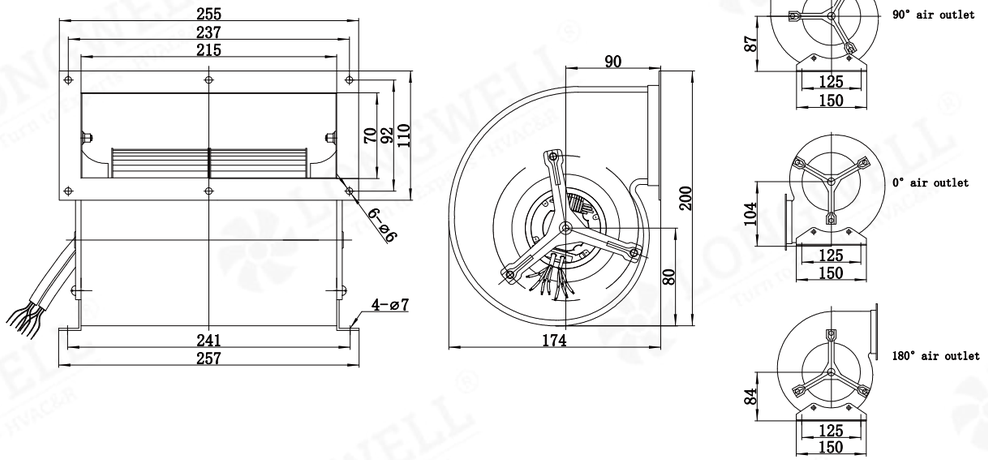
Product Characteristic

- Material : Galvanised sheet steel
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
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- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

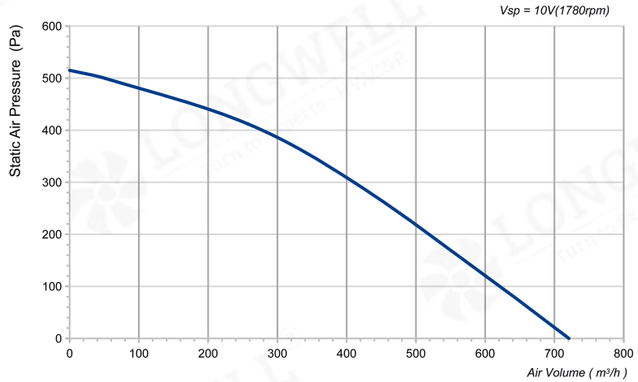
CE RoHS ETL BSCI ISO EAC UL LVD

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Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-072DM-02	24	105	5.6	1780	721	515	62	/



LWFD-133 Serise





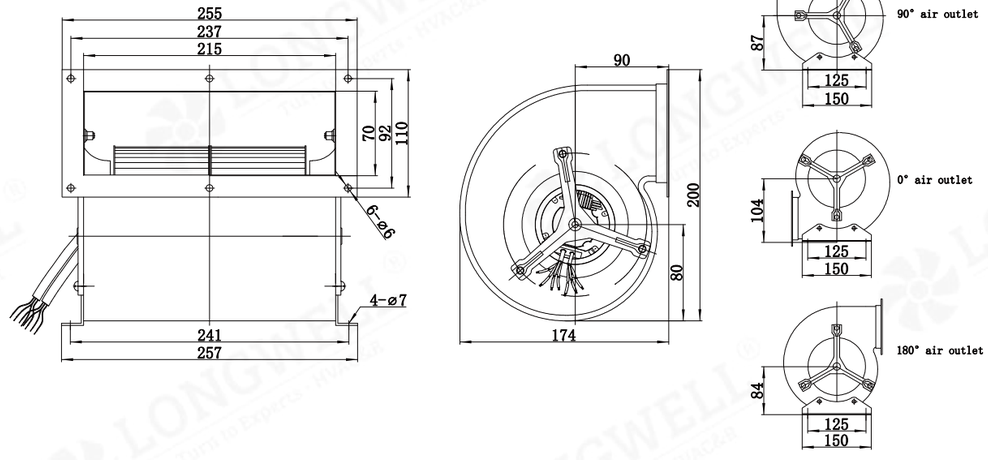
Product Characteristic

- Material : Galvanised sheet steel
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

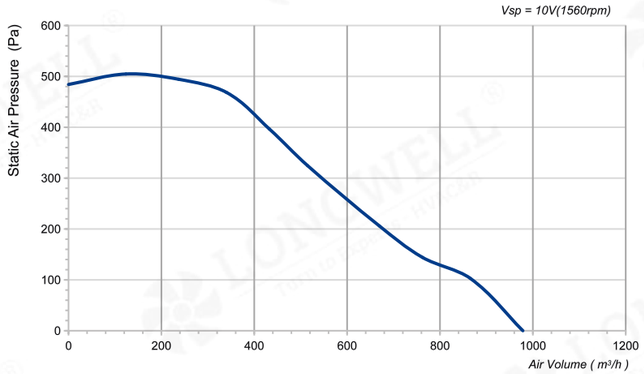
Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-072DH-02	48	105	2.8	1780	721	515	62	/



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LWFD-133 Serise





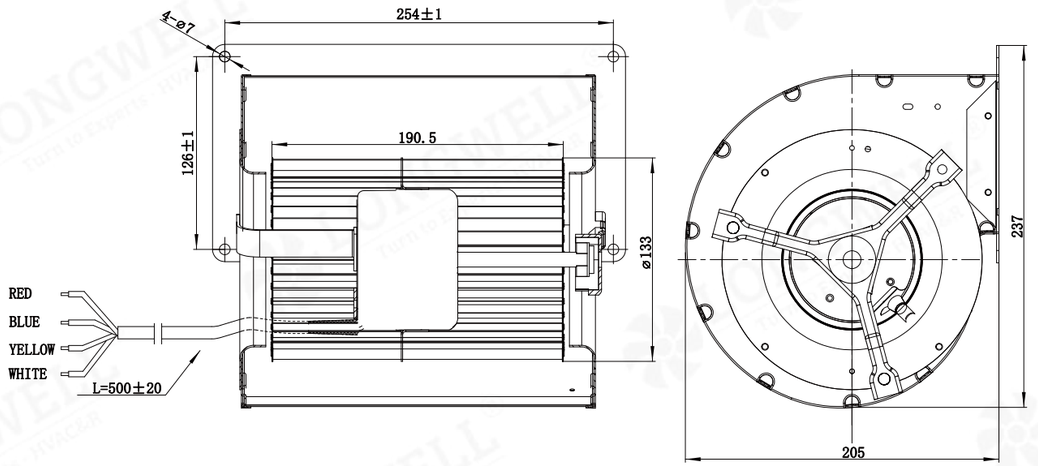
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- Material : Galvanised sheet steel
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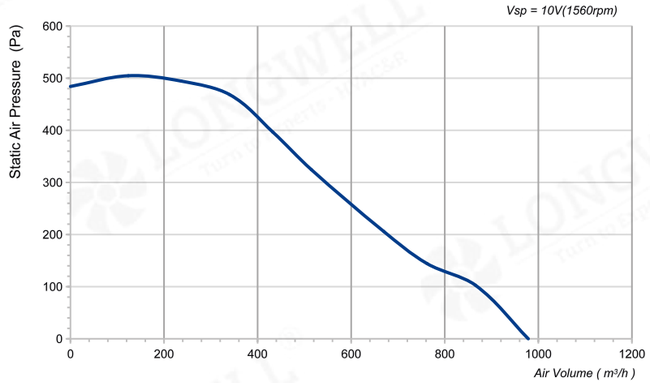
CE RoHS ETL BSCI ISO EAC UL LVD

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LWFD3G133-092DM-03	24	120	5	1560	979	484	68	/



LWFD-133 Serise





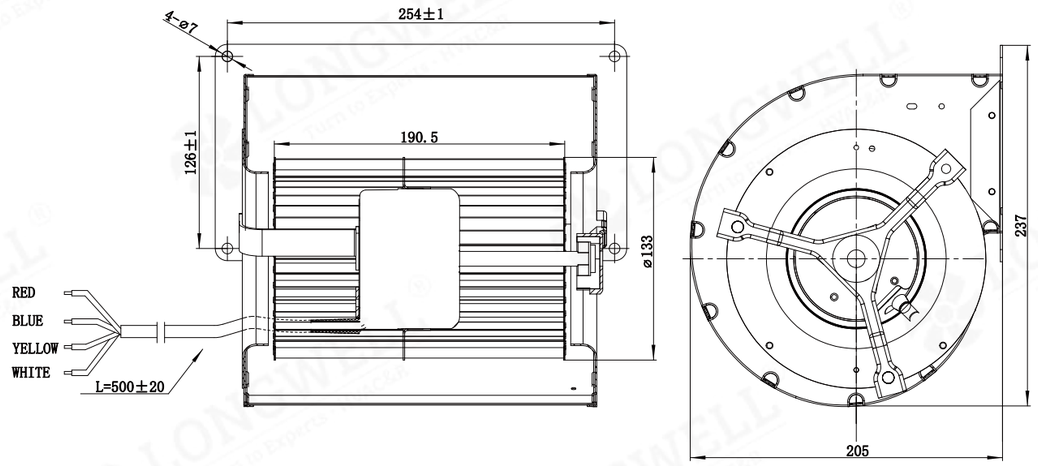
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- Material : Galvanised sheet steel
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- Bearing: Maintenance-free ball bearings
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- Type of Protection: IP54
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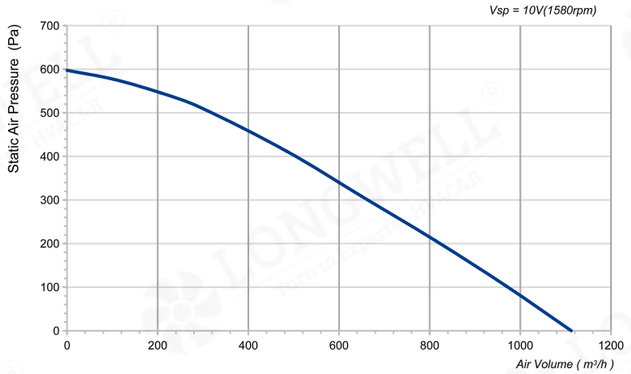
CE RoHS ETL BSCI ISO EAC UL LVD

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Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-092DH-03	48	120	2.5	1560	979	484	68	/



LWFD-133 Serise





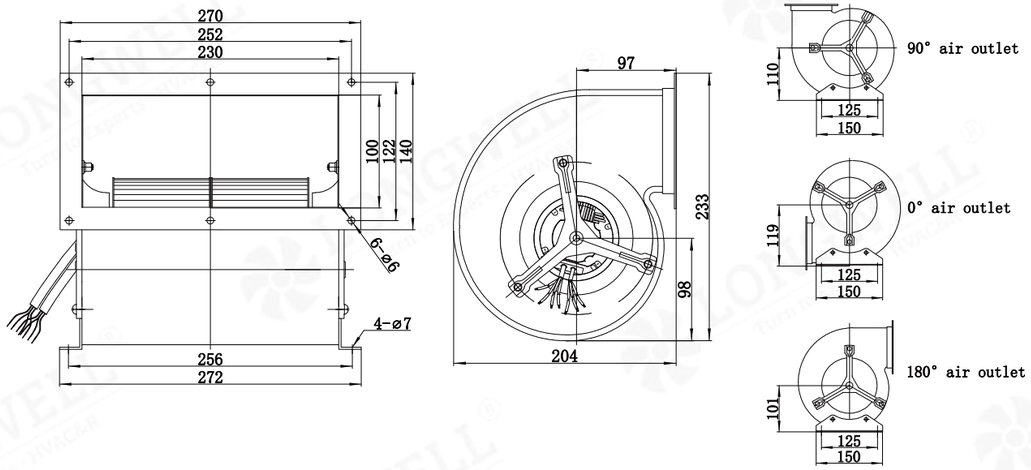
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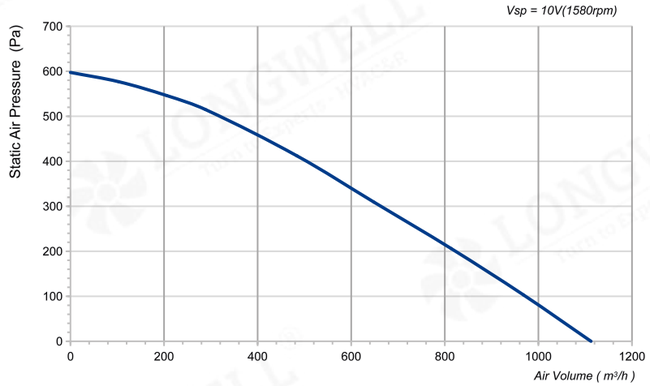
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-072DM-04	24	118	6	1580	1112	597	64	/



LWFD-133 Serise





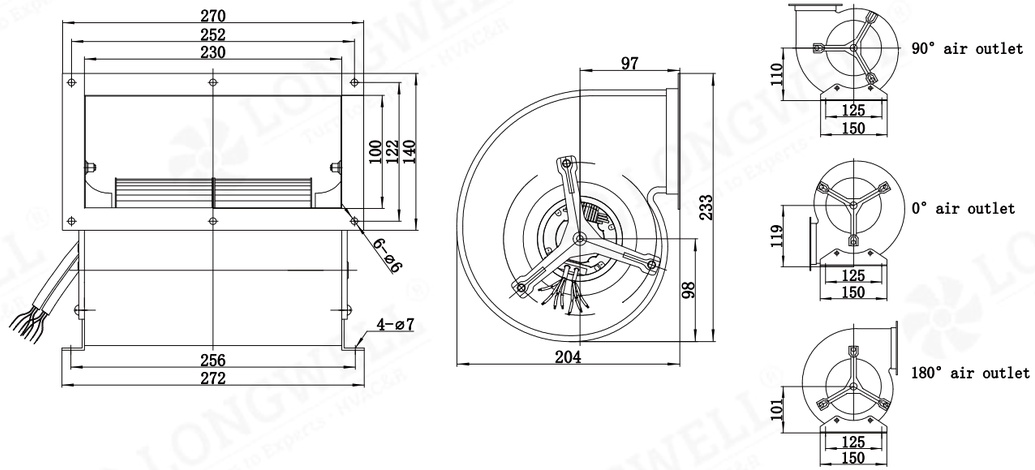
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- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

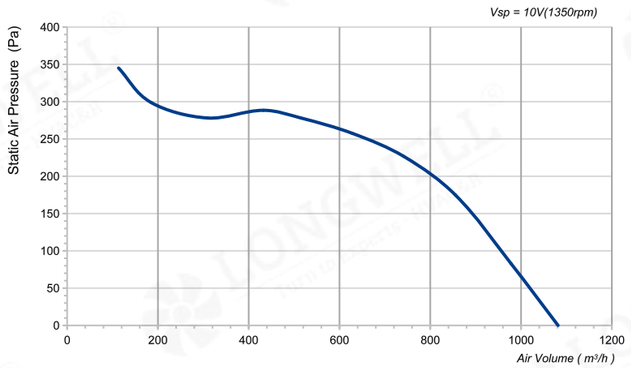
Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-072DH-04	48	118	3	1580	1112	597	64	/



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LWFD-146 Serise





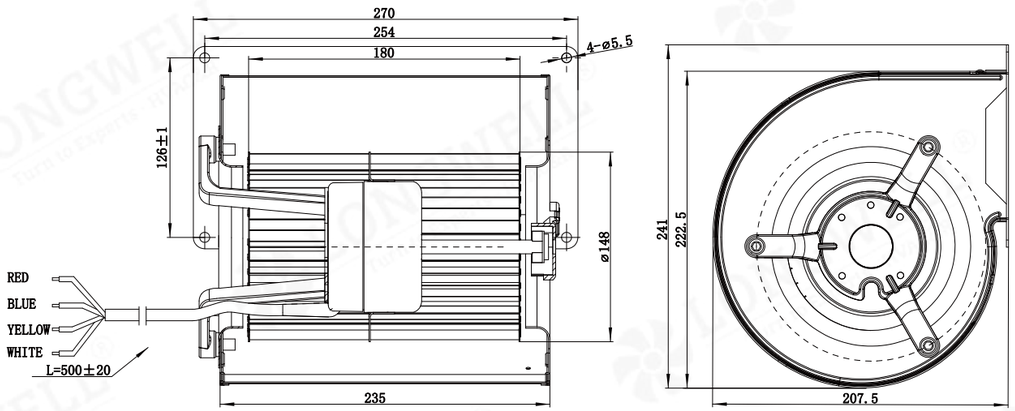
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- Type of Protection: IP54
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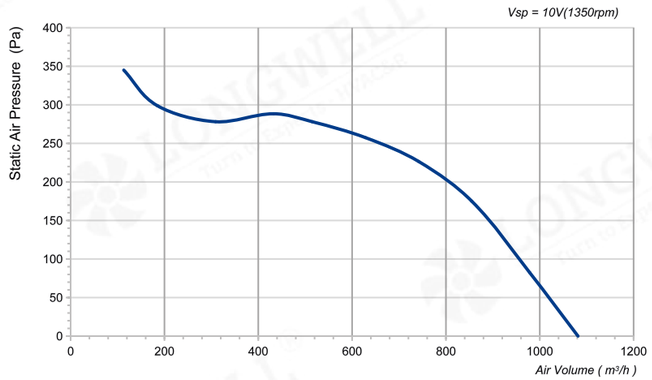
CE RoHS compliant ETL Intertek BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G146-092DM-01	24	100	4.2	1350	1082	345	65	/



LWFD-146 Serise





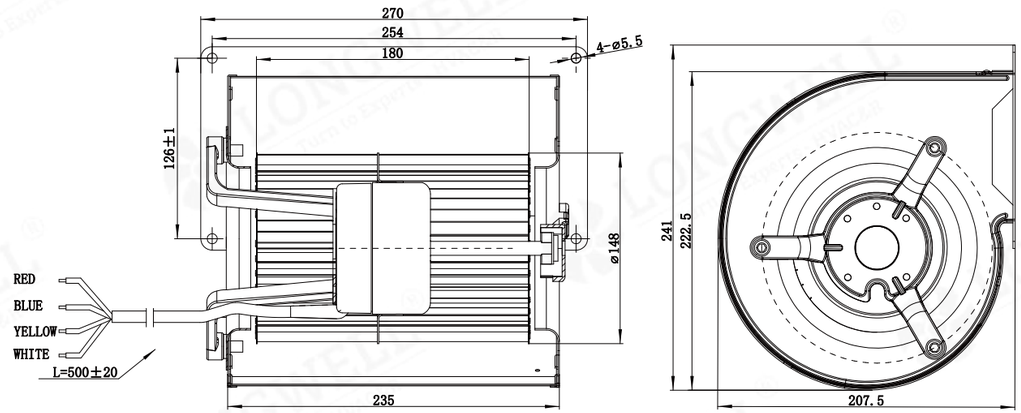
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- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS compliant ETL Intertek BSCI ISO EAC UL LVD

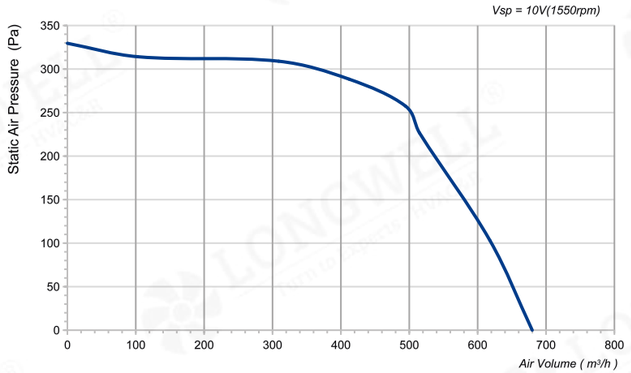
Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G146-092DH-01	48	100	2.1	1350	1082	345	65	/



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LWFD-133 Serise





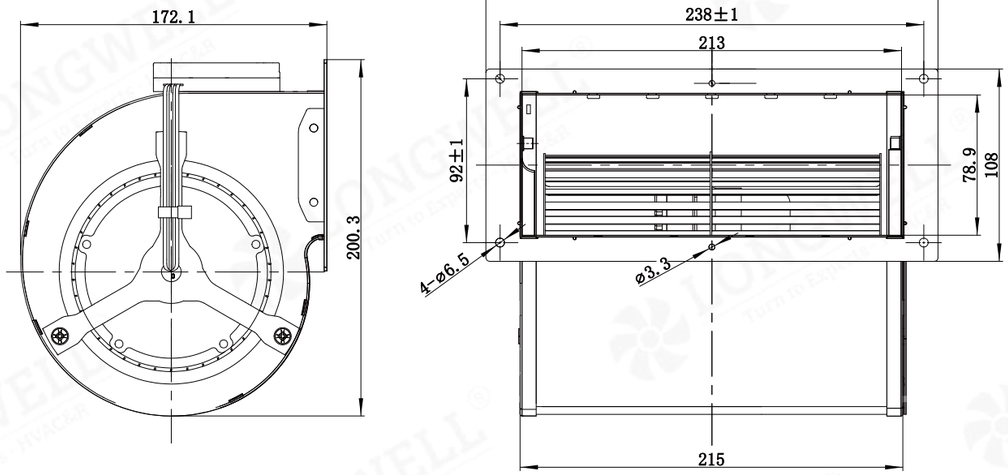
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- Insulation Class: F
- Bearing: Maintenance-free ball bearings
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- Type of Protection: IP54
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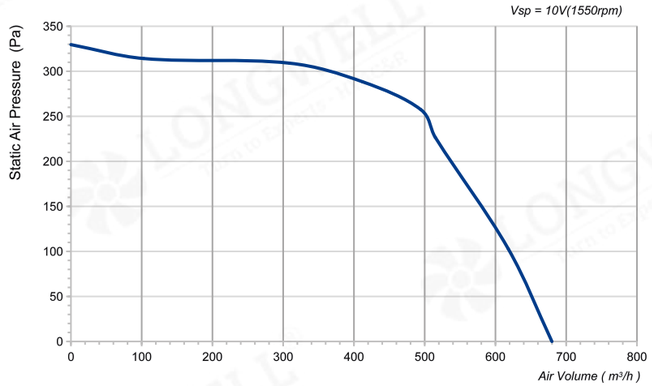
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-092DZ-01	310	80	0.26	1550	680	330	69	/



LWFD-133 Serise





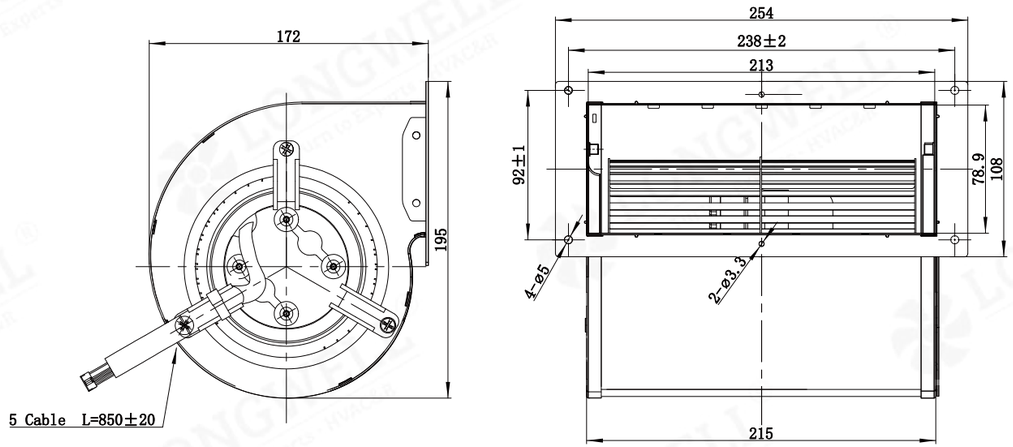
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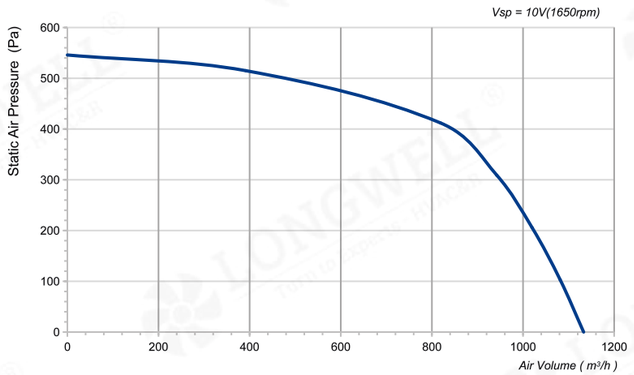
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G133-092DZ-02	310	80	0.26	1550	680	330	69	/



LWFD-146 Serise





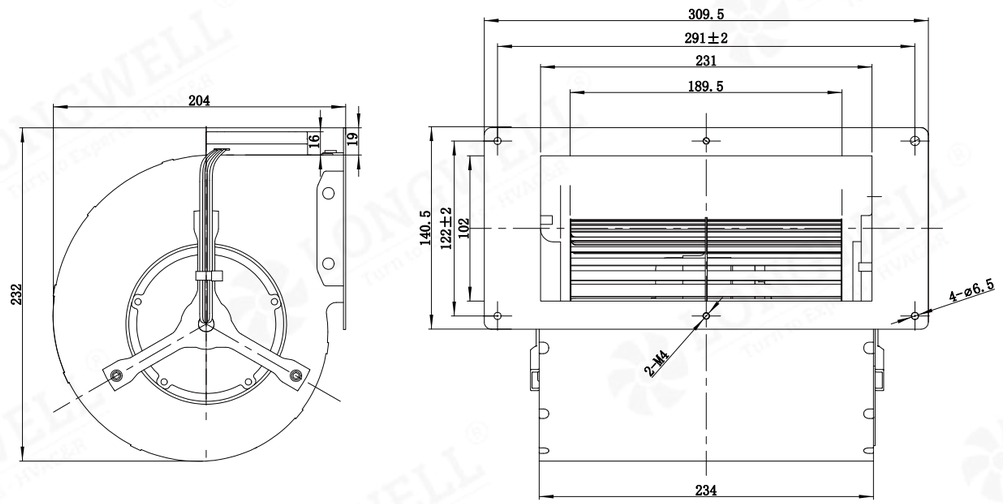
Product Characteristic

Material :	Galvanised sheet steel	Mode of Operation:	S1
Insulation Class:	F	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Operation Temperature:	-30℃～+60℃

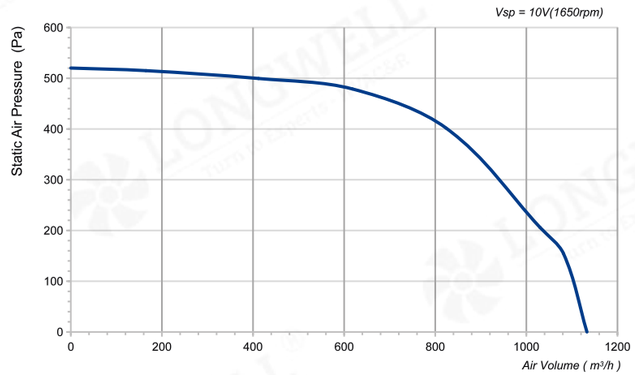
CE RoHS compliant ETL Intertek BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G146-092DZ-01	310	180	0.58	1650	1133	546	67	/



LWFD-146 Serise





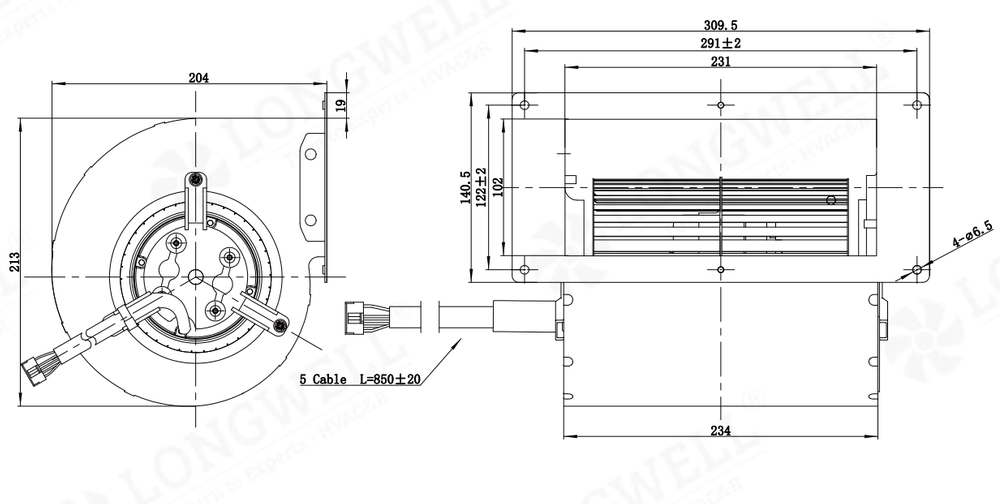
Product Characteristic

Material :	Galvanised sheet steel	Mode of Operation:	S1
Insulation Class:	F	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Operation Temperature:	-30℃～+60℃

CE RoHS compliant ETL Intertek BSCI ISO EAC UL LVD

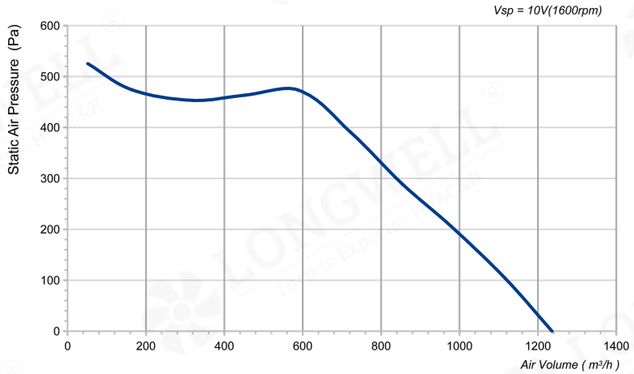
Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G146-092DZ-02	310	180	0.58	1650	1133	520	67	/



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

LWFD-146 Serise





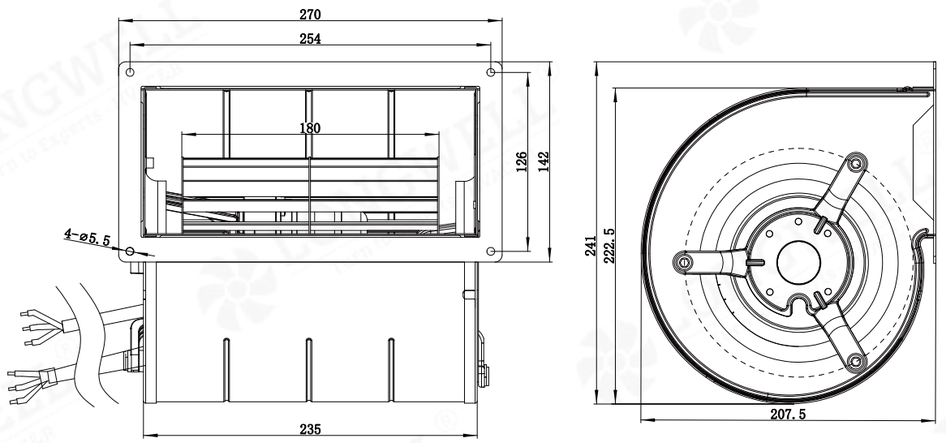
Product Characteristic

- Material : Galvanised sheet steel
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

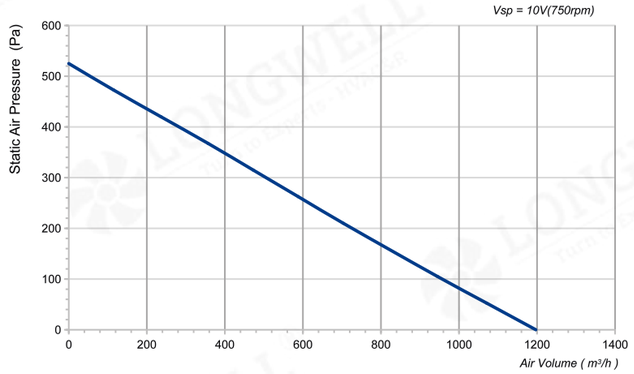
Forward Centrifugal Blower

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G146-092DZ-03	310	185	0.63	1600	1236	525	70	/



LWFD-197 Serise





Product Characteristic

- Material : Galvanised sheet steel
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

Technical Specifications

Model	Voltage (V)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Curve
LWFD3G197-072DZ-01	310	85	0.27	750	1197	525	/	/

