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

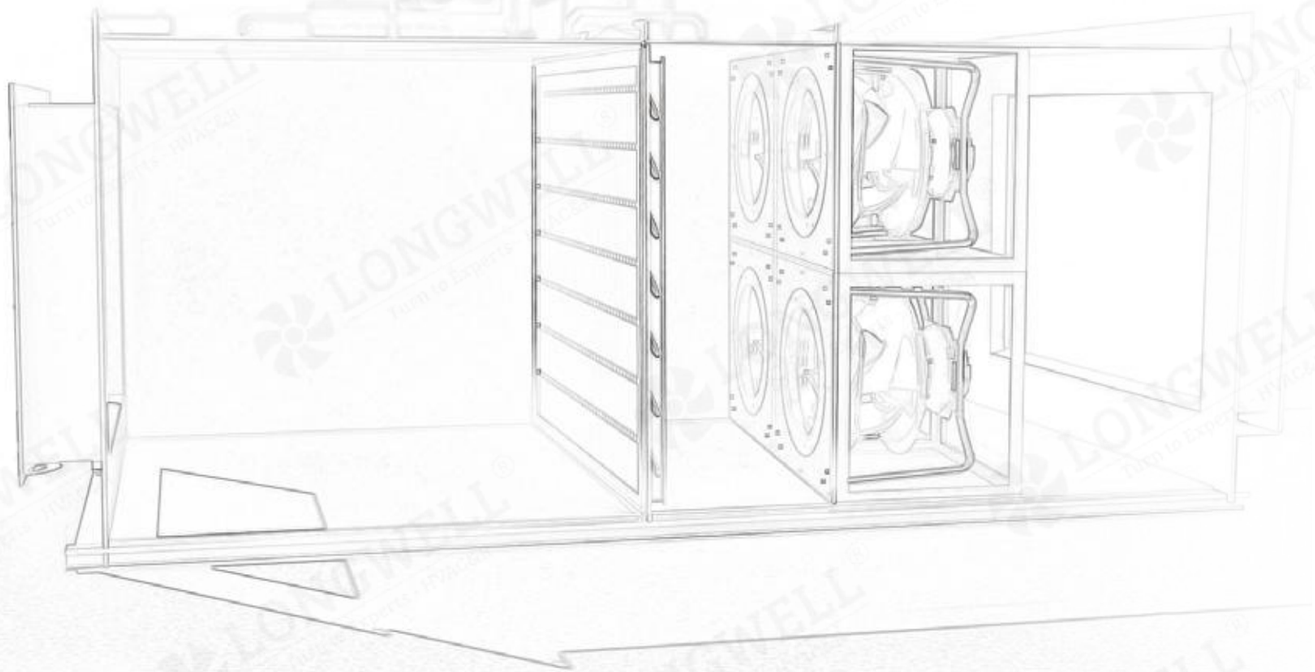
——— DC Backward curved Centrifugal Fan

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.

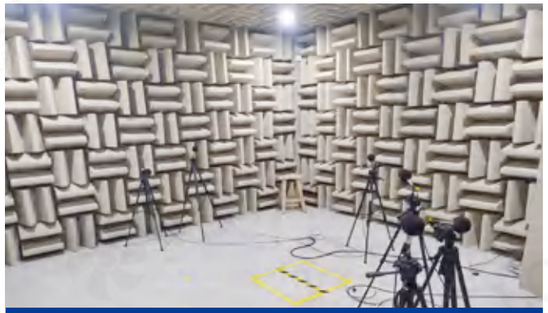
Equipped with advanced testing labs and production facilities, including a B&K noise lab, CFD simulation lab, air dynamics test chambers, automatic welding machines, CNC machining centers, and auto robot injection machines, we ensure efficient production and on-time delivery.

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.

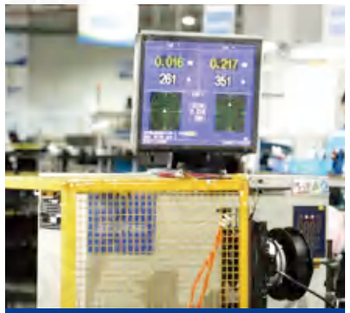
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

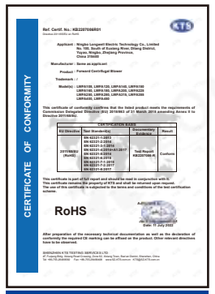

Own-Brand


Own-Brand


ETL


ETL

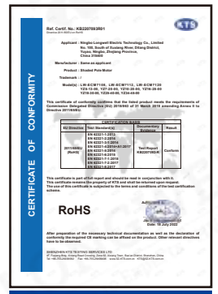

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL

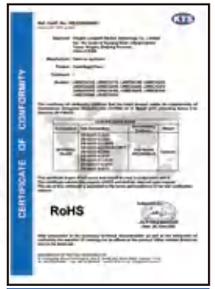

ETL


CE

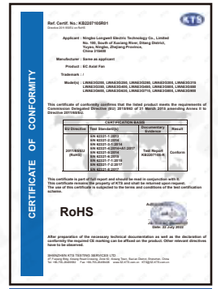

CE

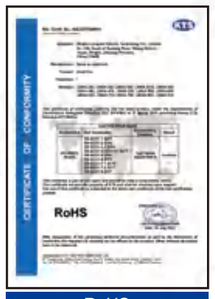

ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

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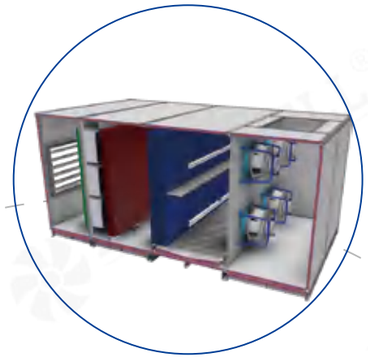
Mainly Application

AHU/FCU/FFU/Air Purifier/ Sterilization Equipments/
Humidiifier equipments/EC Fan Grid (Wall)

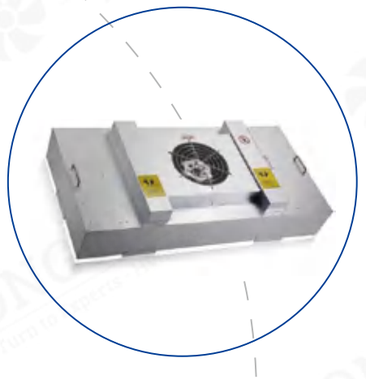




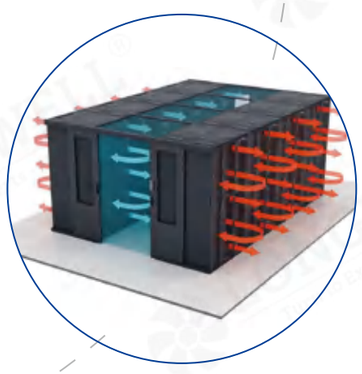
Ventilation Equipments Project



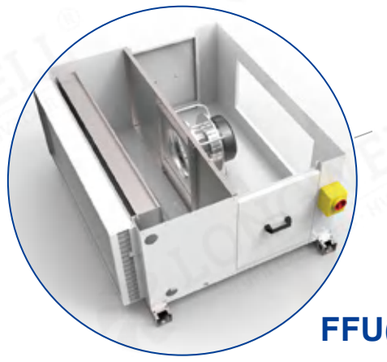
Ventilation Unit Project



FFU(Fan Filter Unit) Project



Data Center Cooling Project



FFU(Fan Filter Unit) Project

Type Code

LW B D 3G 133 - 072 N M - 02

- Series number
- M-24V H-48V Z-310V
- P-with bracket N-without bracket
- Motor size:072/092/102/138/188/218
- Diameter of rotor
- 3 phase
- A-AC D-DC E-EC
- B-Backward F-Forward
- Longwell

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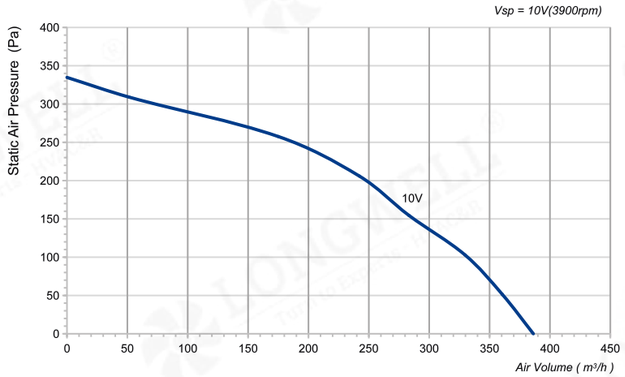
DC Backward curved Centrifugal Fan

Professional HVAC Fan &Motors Manufacturer



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LWBD-133 Series



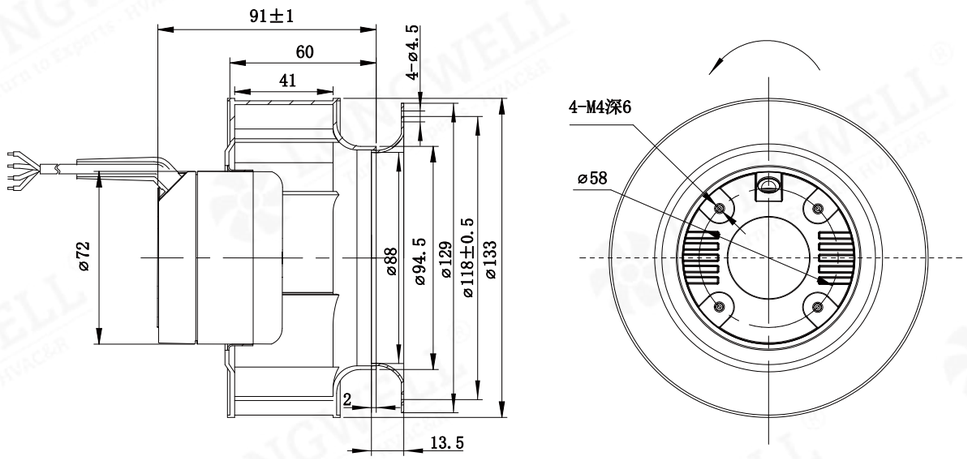


Product Characteristic

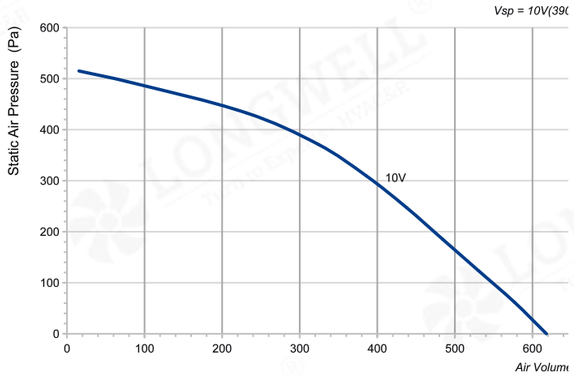
- Impeller Material: Plastic PA66+25GF
- Direction of Rotation: Clockwise,seen on rotor
- Protection Class: IP42
- Mounting Position: Horizontal or Vertical
- Bearing: Maintenance-free ball bearings
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25℃～+60℃
- Technical Features: Control input 0-10VDC/PWM
- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G133-072NM-02	24	1.17	28	3900	386	335	65
LWBD3G133-072NH-03	48	0.58	28	3900	386	335	65



LWBD-175 Series



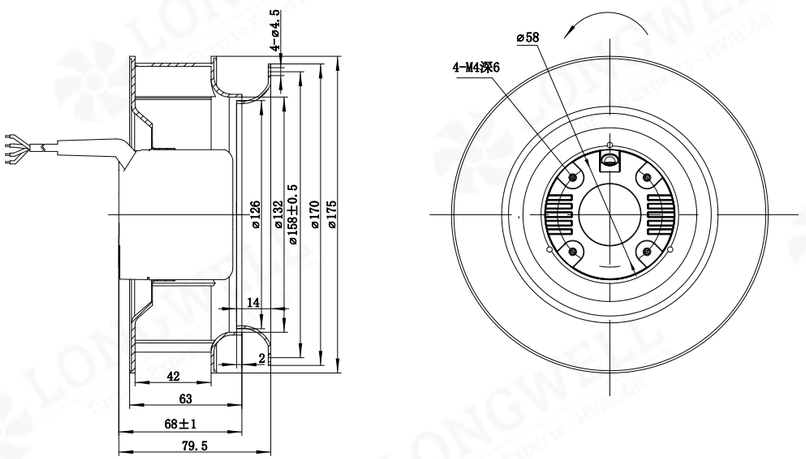


Product Characteristic

- Impeller Material: Plastic PA66+25GF
- Direction of Rotation: Clockwise,seen on rotor
- Protection Class: IP42
- Mounting Position: Horizontal or Vertical
- Bearing: Maintenance-free ball bearings
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25℃～+60℃
- Technical Features: Control input 0-10VDC/PWM
- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

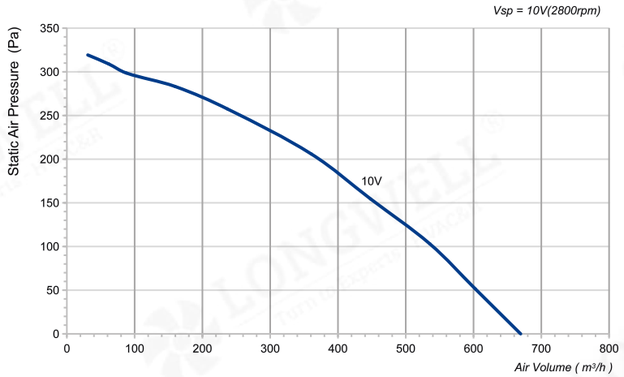
Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G175-072NM-02	24	3.2	75	3900	618	515	71
LWBD3G175-072NH-03	48	1.5	75	3900	618	515	71



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LWBD-175 Series





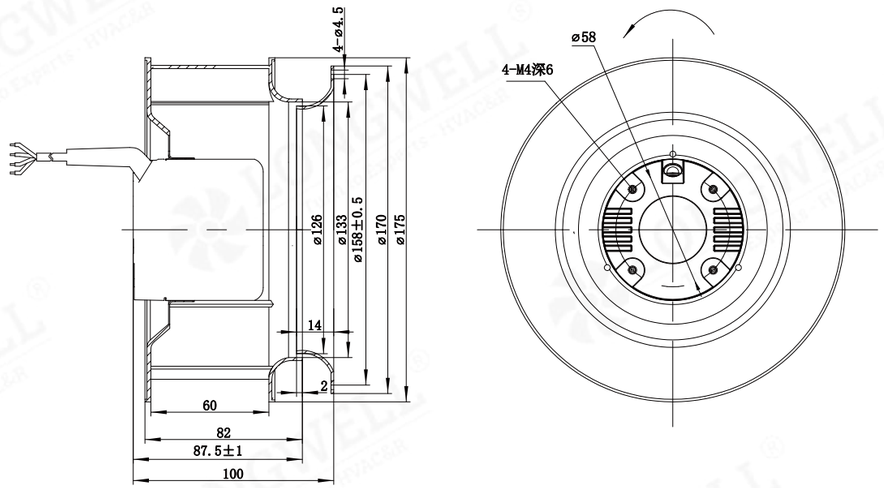
Product Characteristic

Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

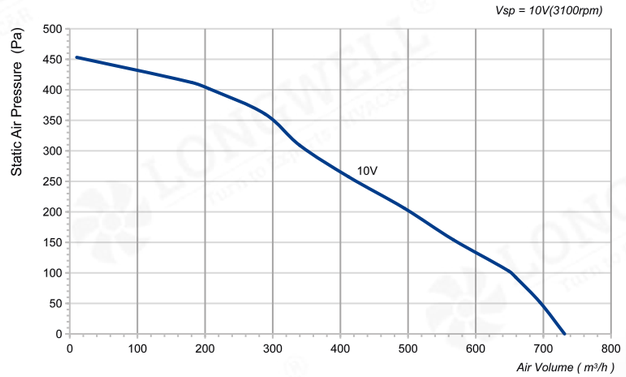
Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G175-072NM-04	24	2.1	50	2800	670	319	68



LWBD-190 Series





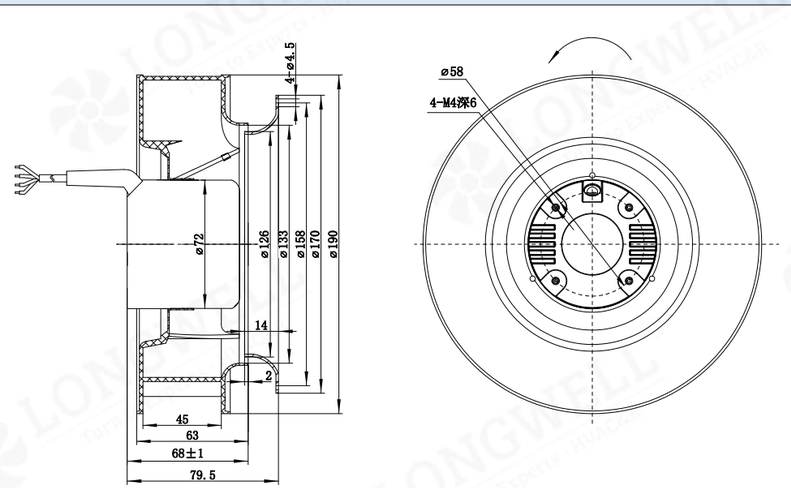
Product Characteristic

Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

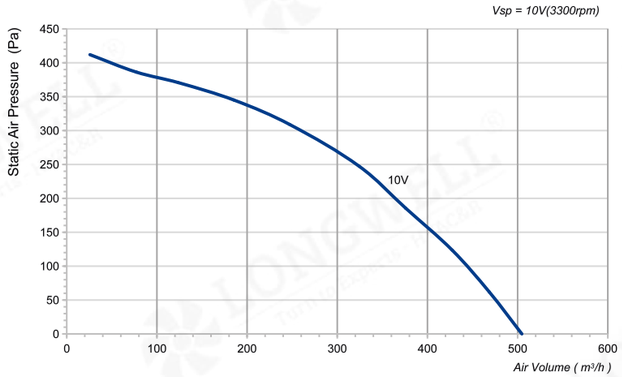
Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G190-072NM-04	24	3.1	75	3100	731	453	70
LWBD3G190-072NH-05	48	1.6	75	3100	731	453	70



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LWBD-190 Series





Product Characteristic

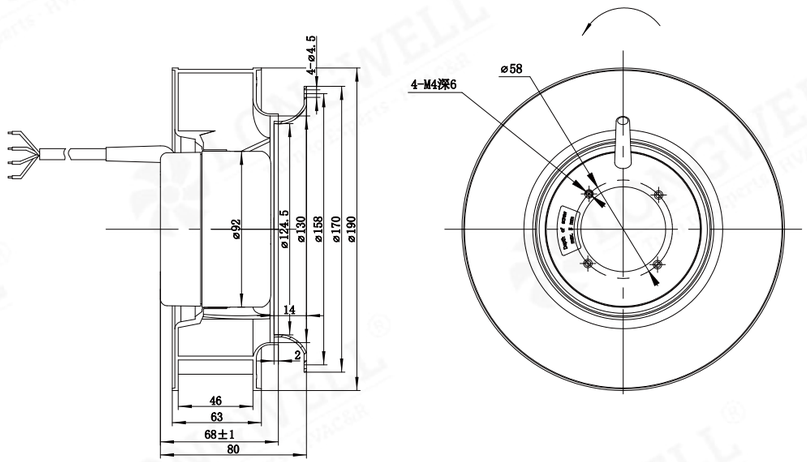
Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

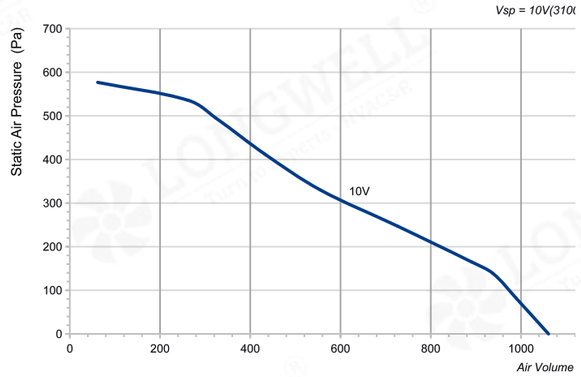
CE RoHS BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G190-092NM-06	24	3.6	85	3300	505	412	73
LWBD3G190-092NH-07	48	1.8	85	3300	505	412	73



LWBD-220 Series





Product Characteristic

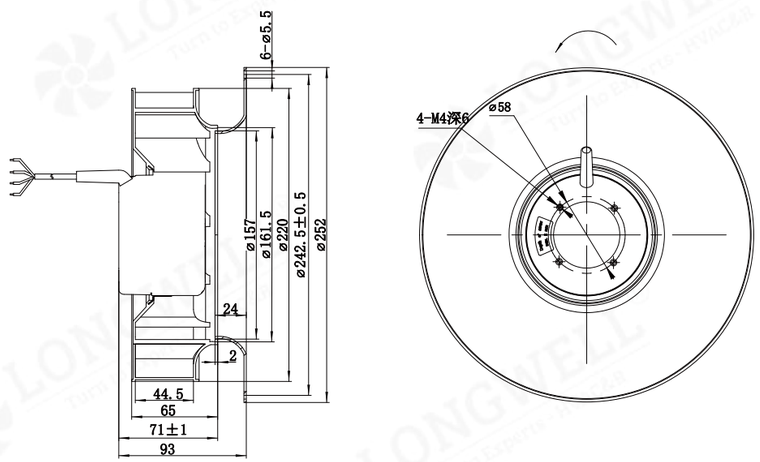
Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

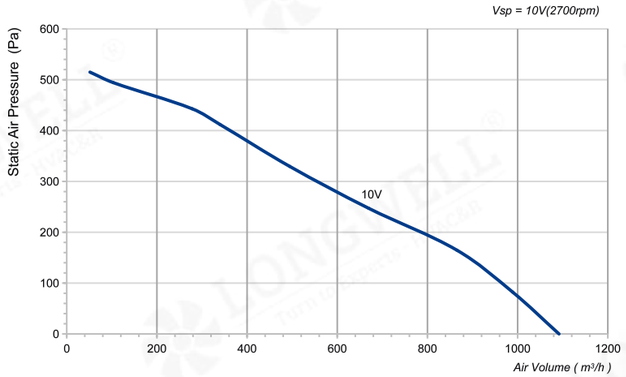
CE RoHS BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G220-092NM-04	24	4.6	110	3100	1030	577	73
LWBD3G220-092NH-05	48	2.3	110	3100	1030	577	73



LWBD-225 Series





Product Characteristic

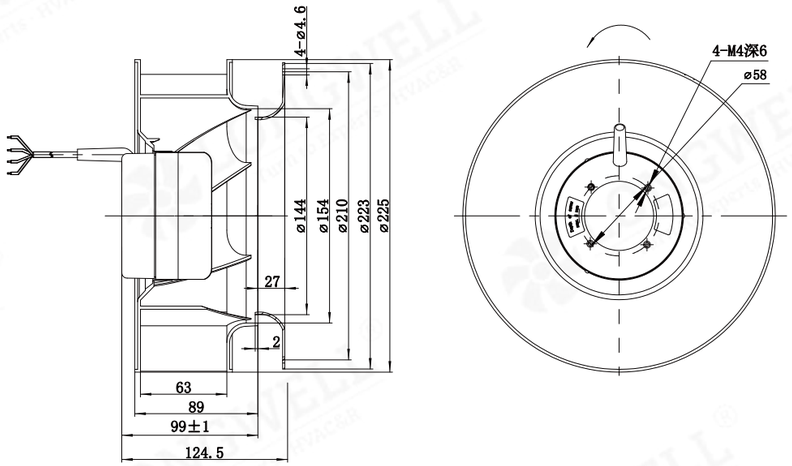
Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

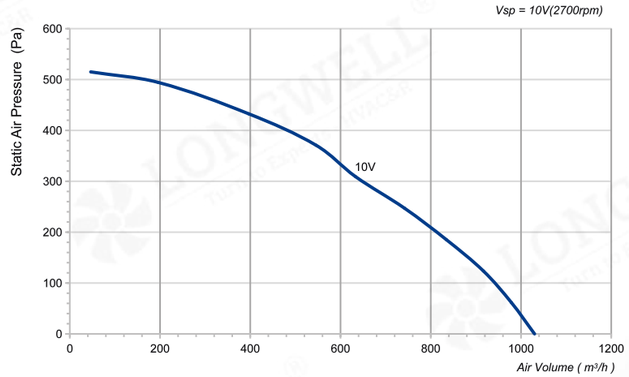
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G225-092NM-04	24	4.17	100	2700	1092	515	72
LWBD3G225-092NH-05	48	2.08	100	2700	1092	515	72



LWBD-225 Series





Product Characteristic

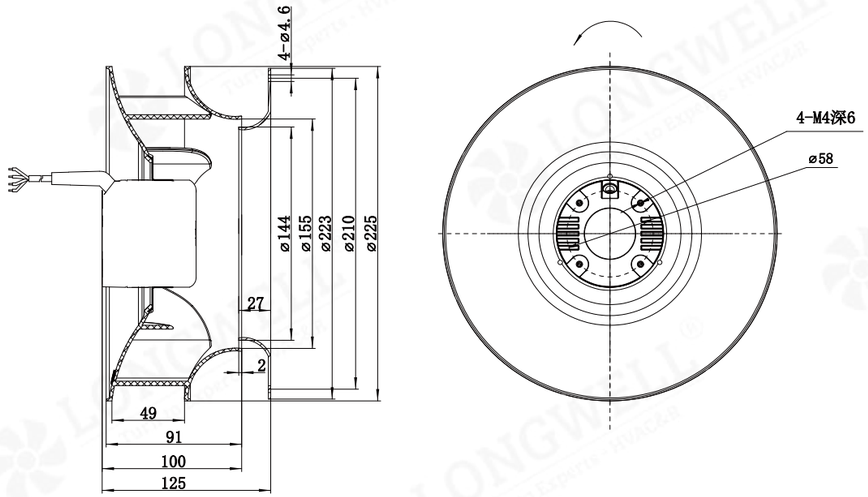
Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

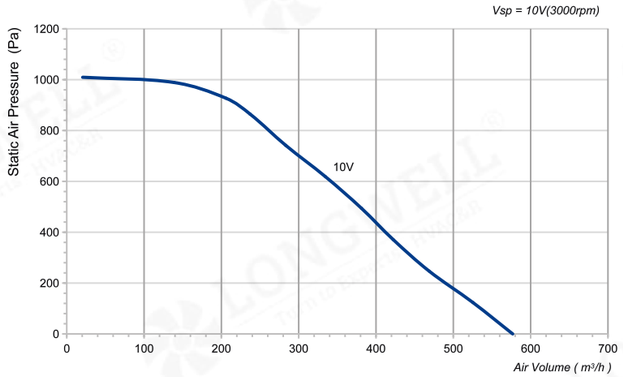
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G225-092NH-06	48	2.1	100	2700	1030	515	70



LWBD-250 Series





Product Characteristic

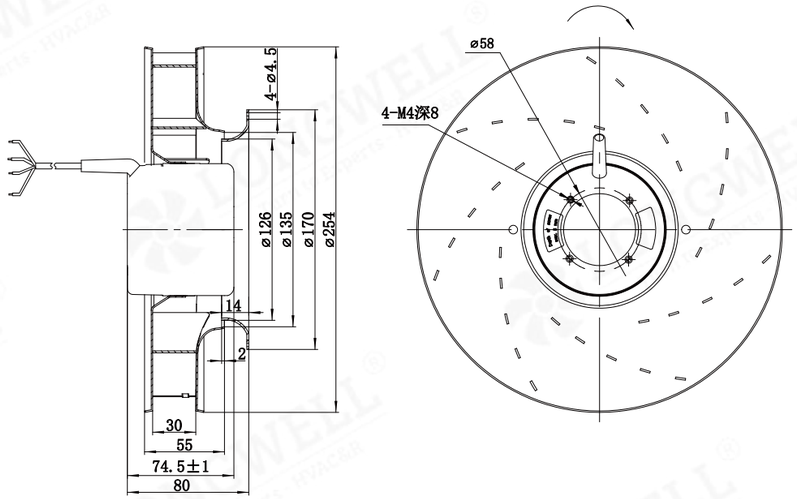
Impeller Material:	Sheet Galvanized	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

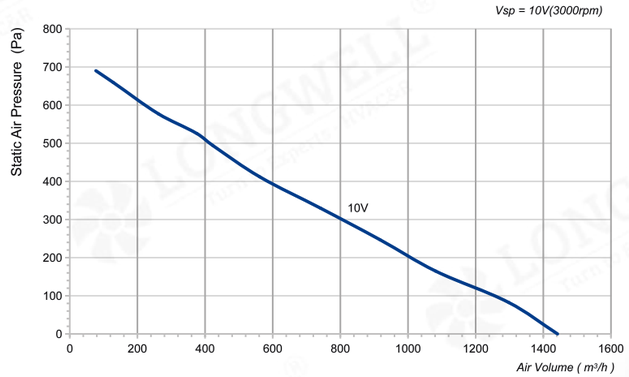
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G250-092NH-05	48	3.15	150	3000	577	1009	79



LWBD-250 Series





Product Characteristic

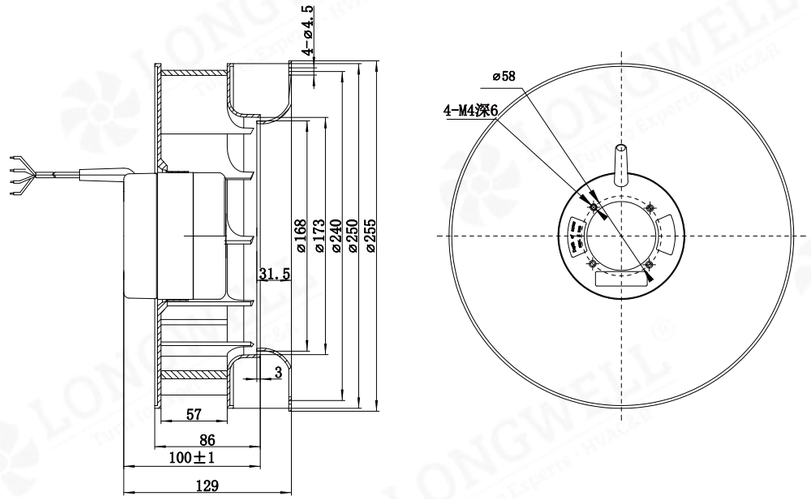
Impeller Material:	Plastic PA66+25GF	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

CE RoHS ETL BSCI ISO EAC UL LVD

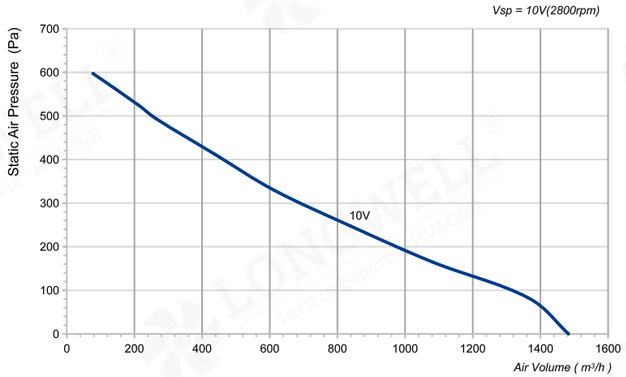
Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G250-092NH-06	48	3.33	160	3000	1442	690	79



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LWBD-250 Series





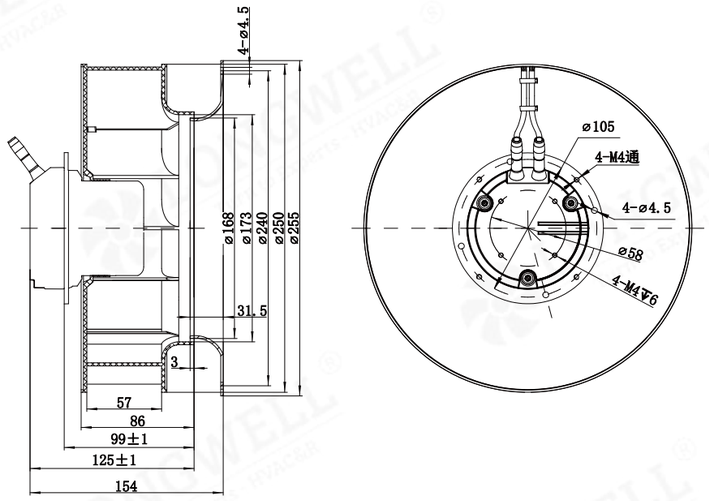
Product Characteristic

- Impeller Material: Plastic PA66+25GF
- Direction of Rotation: Clockwise,seen on rotor
- Protection Class: IP44
- Mounting Position: Horizontal or Vertical
- Bearing: Maintenance-free ball bearings
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25℃～+60℃
- Technical Features: Control input 0-10VDC/PWM
- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

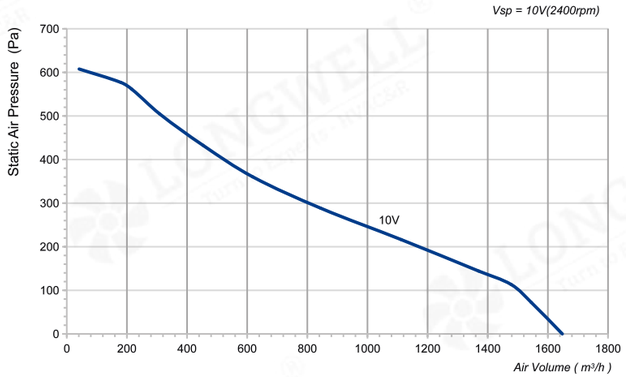
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G250-072NZ-07	310	0.35	110	2800	1483	597	69



LWBD-280 Series





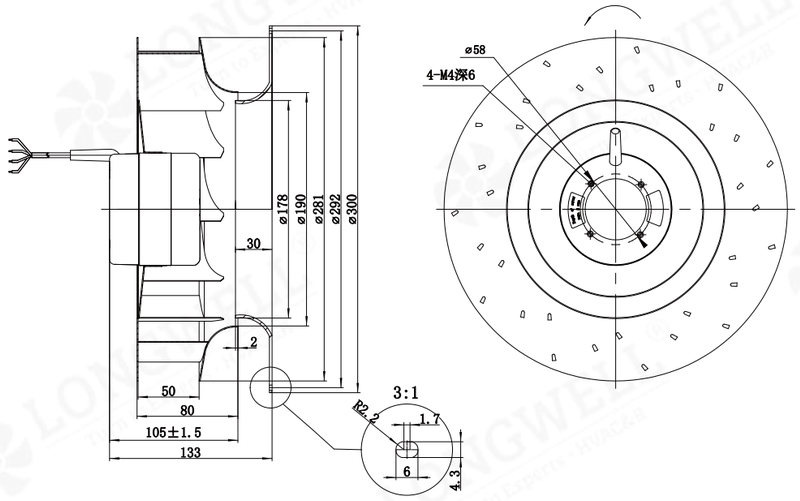
Product Characteristic

- Impeller Material: Sheet Galvanized
- Direction of Rotation: Clockwise,seen on rotor
- Protection Class: IP42
- Mounting Position: Horizontal or Vertical
- Bearing: Maintenance-free ball bearings
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25℃～+60℃
- Technical Features: Control input 0-10VDC/PWM
- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

CE RoHS ETL BSCI ISO EAC UL LVD

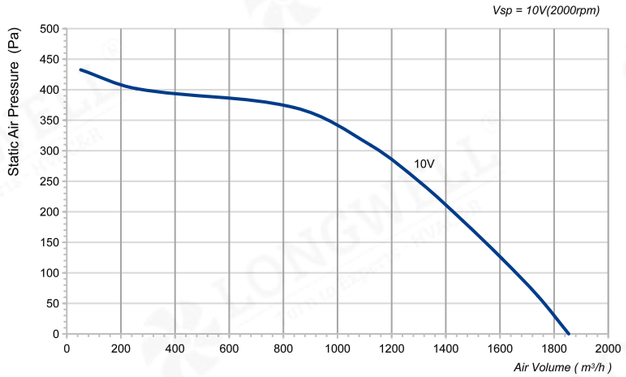
Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G280-092NH-04	48	2.8	130	2400	1648	608	72



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LWBD-280 Series





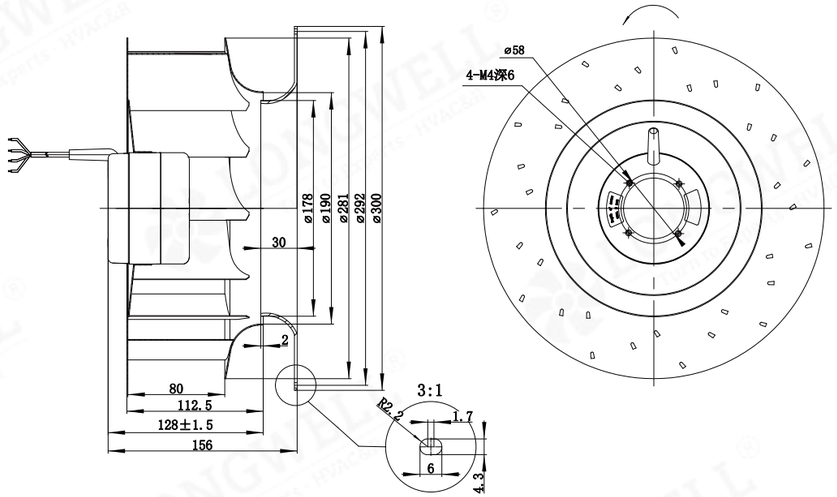
Product Characteristic

Impeller Material:	Sheet Galvanized	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM
Protection:	Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start		

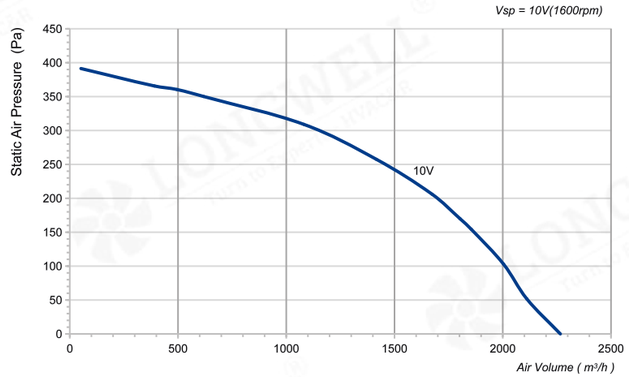
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G280-092NH-05	48	2.9	135	2000	1854	433	69



LWBD-310 Series





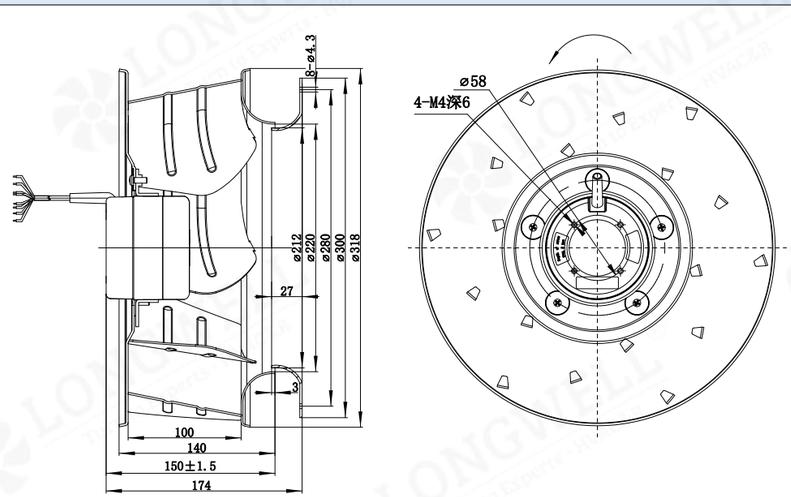
Product Characteristic

Impeller Material:	Sheet Aluminum	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP42	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM
Protection:	Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start		

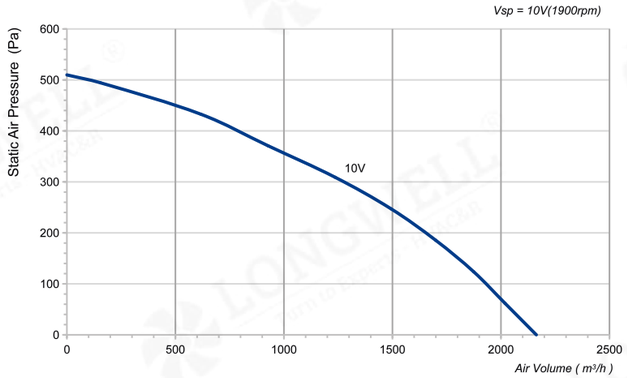
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G310-092NM-01	24	5.5	120	1600	2266	391	72
LWBD3G310-092NH-02	48	2.77	120	1600	2266	391	72



LWBD-310 Series





Product Characteristic

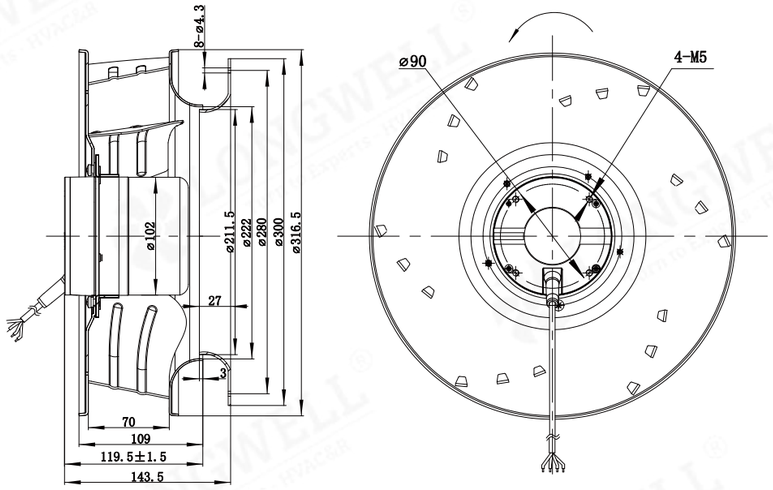
Impeller Material:	Sheet Aluminum	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP44	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

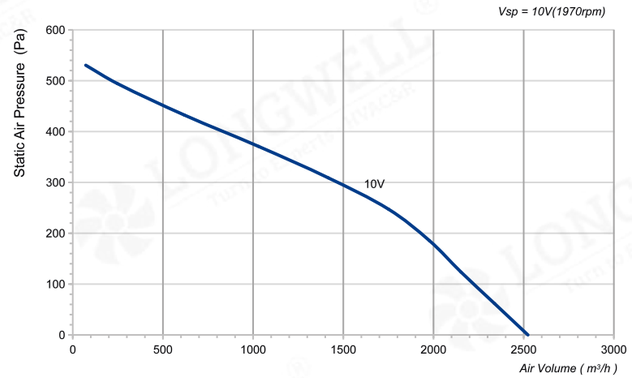
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G310-102NH-03	48	4	192	1900	2163	510	73



LWBD-310 Series





Product Characteristic

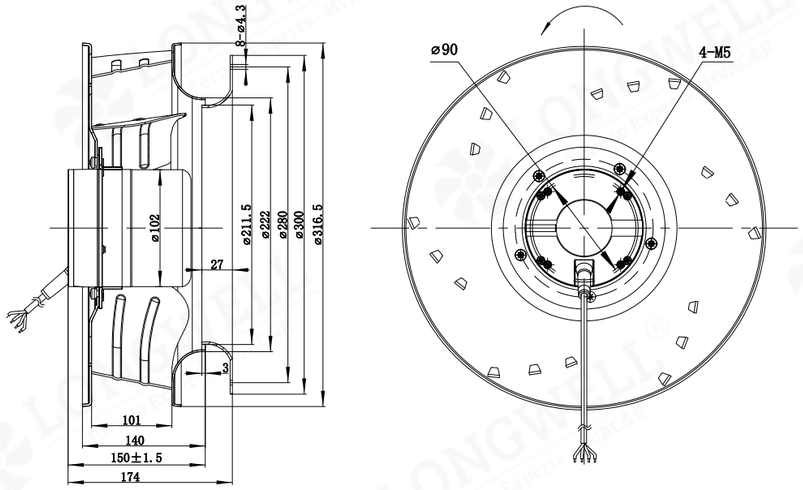
Impeller Material:	Sheet Aluminum	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP44	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

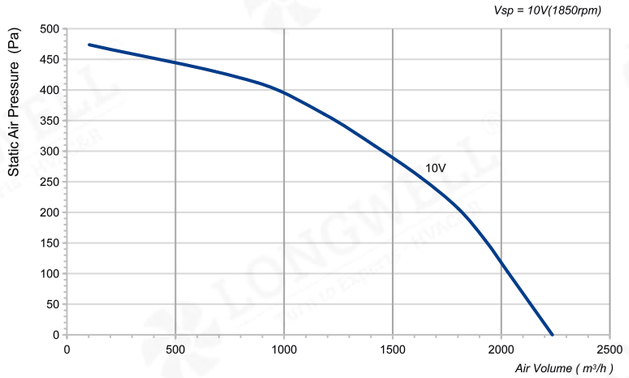
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G310-102NH-04	48	4.8	230	1970	2524	530	75



LWBD-310 Series





Product Characteristic

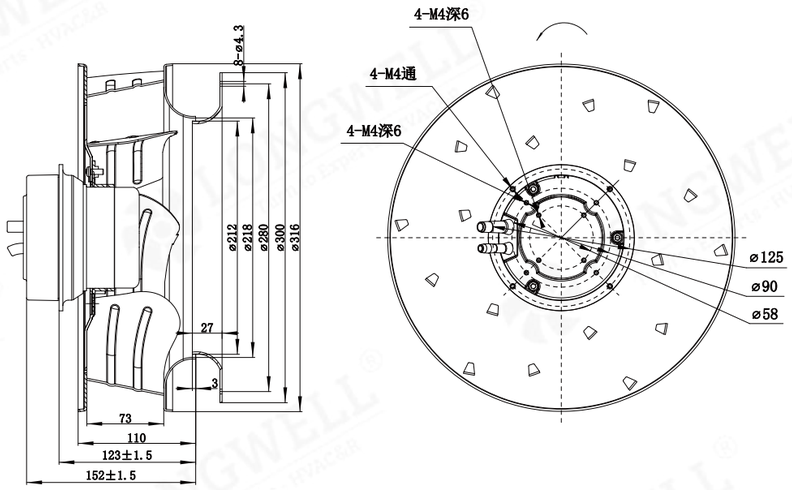
Impeller Material:	Sheet Aluminum	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP44	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

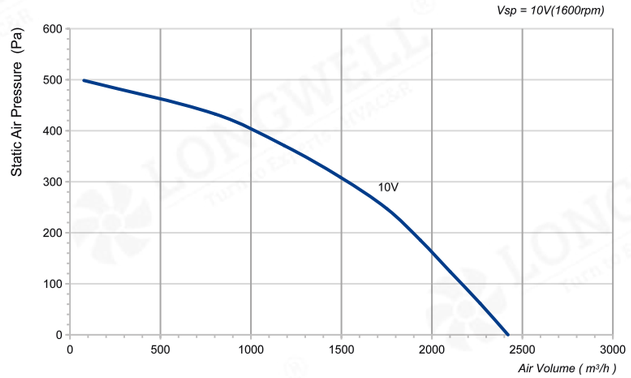
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G310-092NZ-05	310	0.52	160	1850	2235	474	75



LWBD-355 Series





Product Characteristic

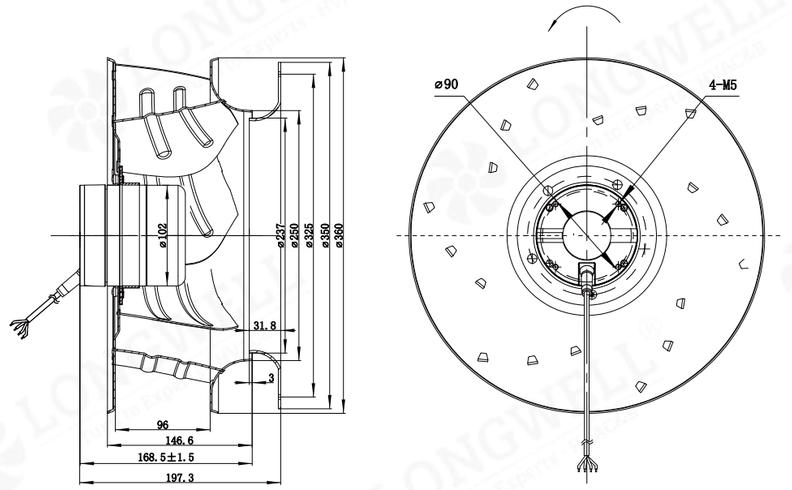
Impeller Material:	Sheet Aluminum	Motor Type:	BLDC
Direction of Rotation:	Clockwise,seen on rotor	Mode of Operation:	S1
Protection Class:	IP44	Insulation Class:	F
Mounting Position:	Horizontal or Vertical	Operation Temperature:	-25℃～+60℃
Bearing:	Maintenance-free ball bearings	Technical Features:	Control input 0-10VDC/PWM

Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

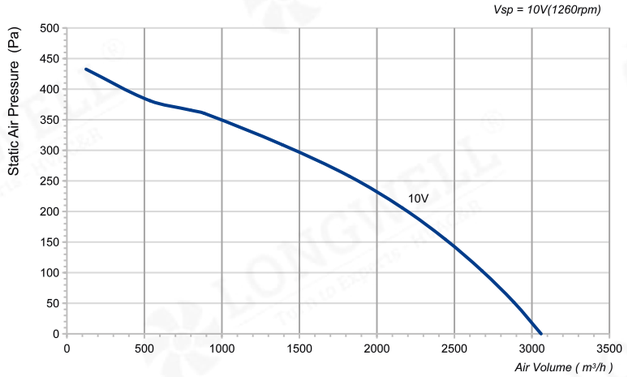
Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G355-102NH-04	48	4.3	205	1600	2421	499	75



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LWBD-400 Series





Product Characteristic

- Impeller Material: Sheet Aluminum
- Motor Type: BLDC
- Direction of Rotation: Clockwise,seen on rotor
- Mode of Operation: S1
- Protection Class: IP44
- Insulation Class: F
- Mounting Position: Horizontal or Vertical
- Operation Temperature: -25℃～+60℃
- Bearing: Maintenance-free ball bearings
- Technical Features: Control input 0-10VDC/PWM
- Protection: Tach output,Locked-Rotor protection Reverse Polarity,Over-voltage protection,Soft Start

CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Current (A)	Rated Power (W)	Speed (RPM)	Air Volume (m³/h)	Static Pressure (Pa)	Noise [dB(A)]
LWBD3G400-102NH-03	48	4	190	1260	3059	433	73

