

Delivery Premium Quality Fans Globally for Healthier Breathing

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



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## LONGWELL TECHNOLOGY

"Born for High-Quality Breathing  
LONGWELL Fans Power Your Equipments"



*Professional Manufacturer  
of HVACR Fan & Motors*

— DC Backward curved Centrifugal Fan

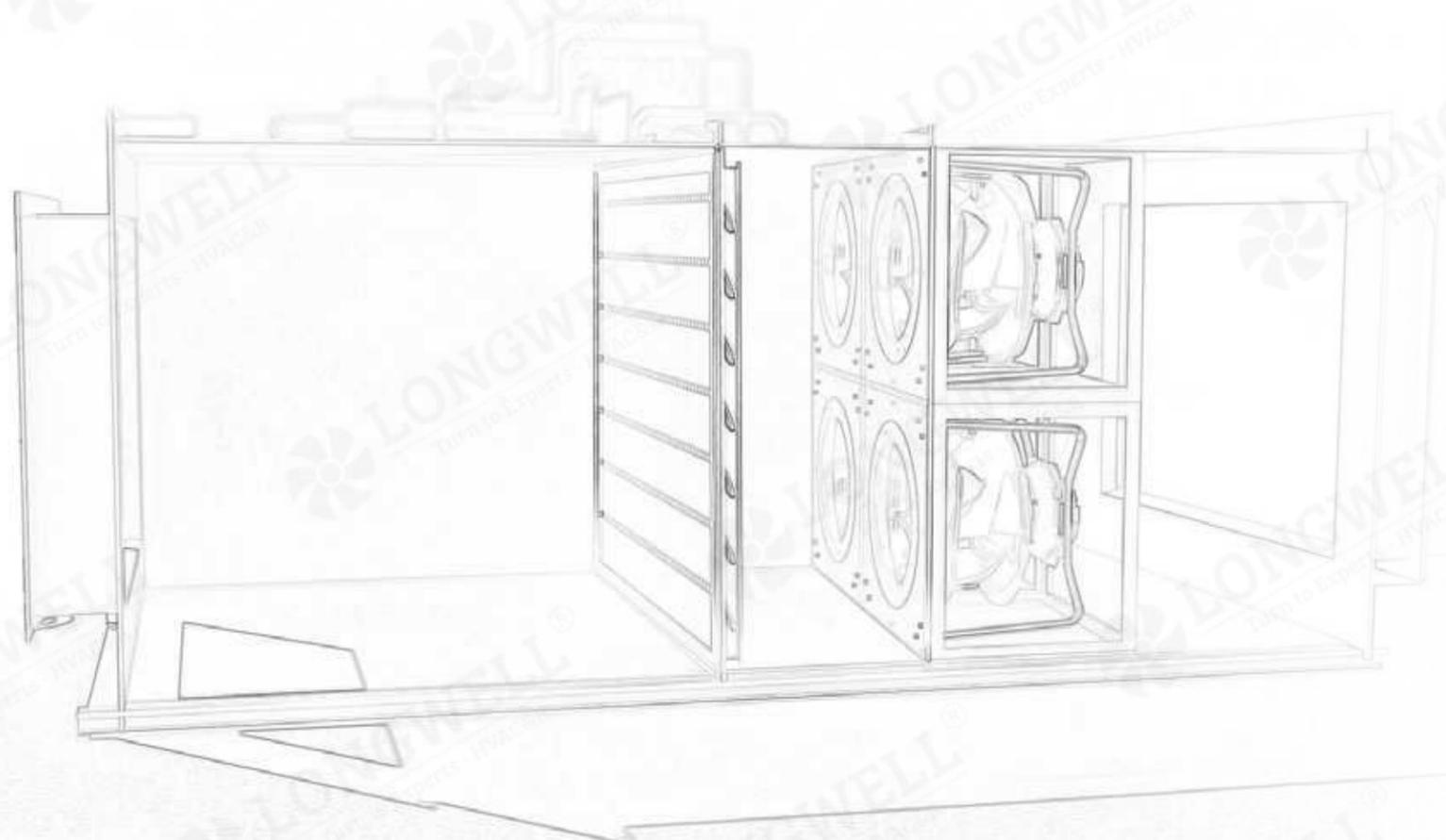
**Longwell Group**

Longwell-China

Longwell-USA

Longwell-Russia

Longwell-Europe



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Centrifugal Blower(Φ280-Φ400)

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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.



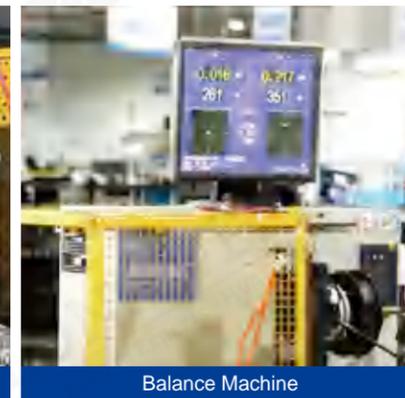
B&K Noise Testing Lab



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

193

Staff

40000m<sup>2</sup>

Floor Space

500<sup>+</sup>

Branding Clients

1Million<sup>+</sup>PCS

Annual Outputs

6

Overseas offices on spot support

50<sup>+</sup>

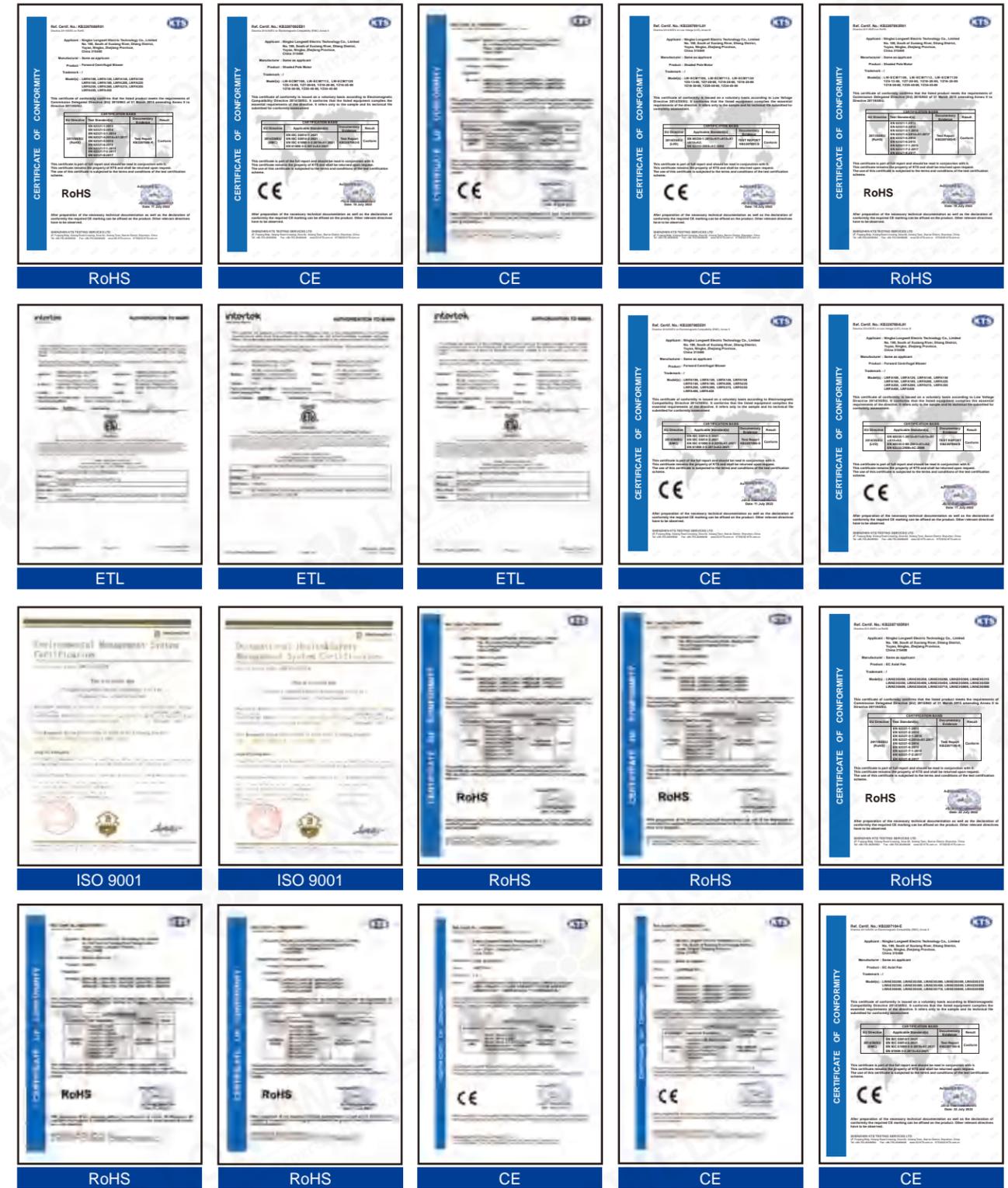
Members R&D Team

# 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 - Highest Level in China

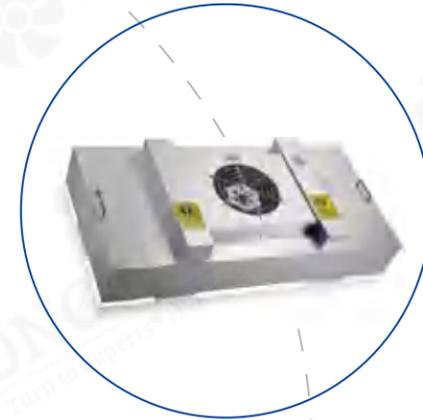


# Mainly Application

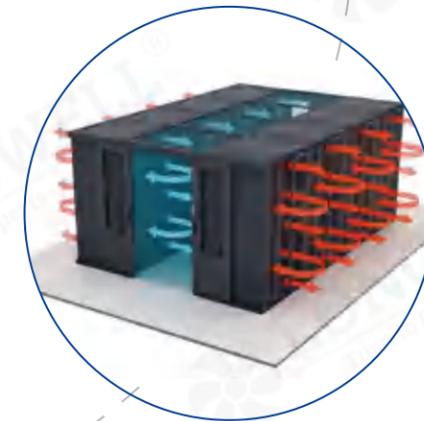
AHU/FCU/FFU/Air Purifier/ Sterilization Equipments/  
Humidiifier equipments/EC Fan Grid ( Wall )



**Ventilation Unit Project**



**FFU(Fan Filter Unit) Project**



**Data Center Cooling Project**



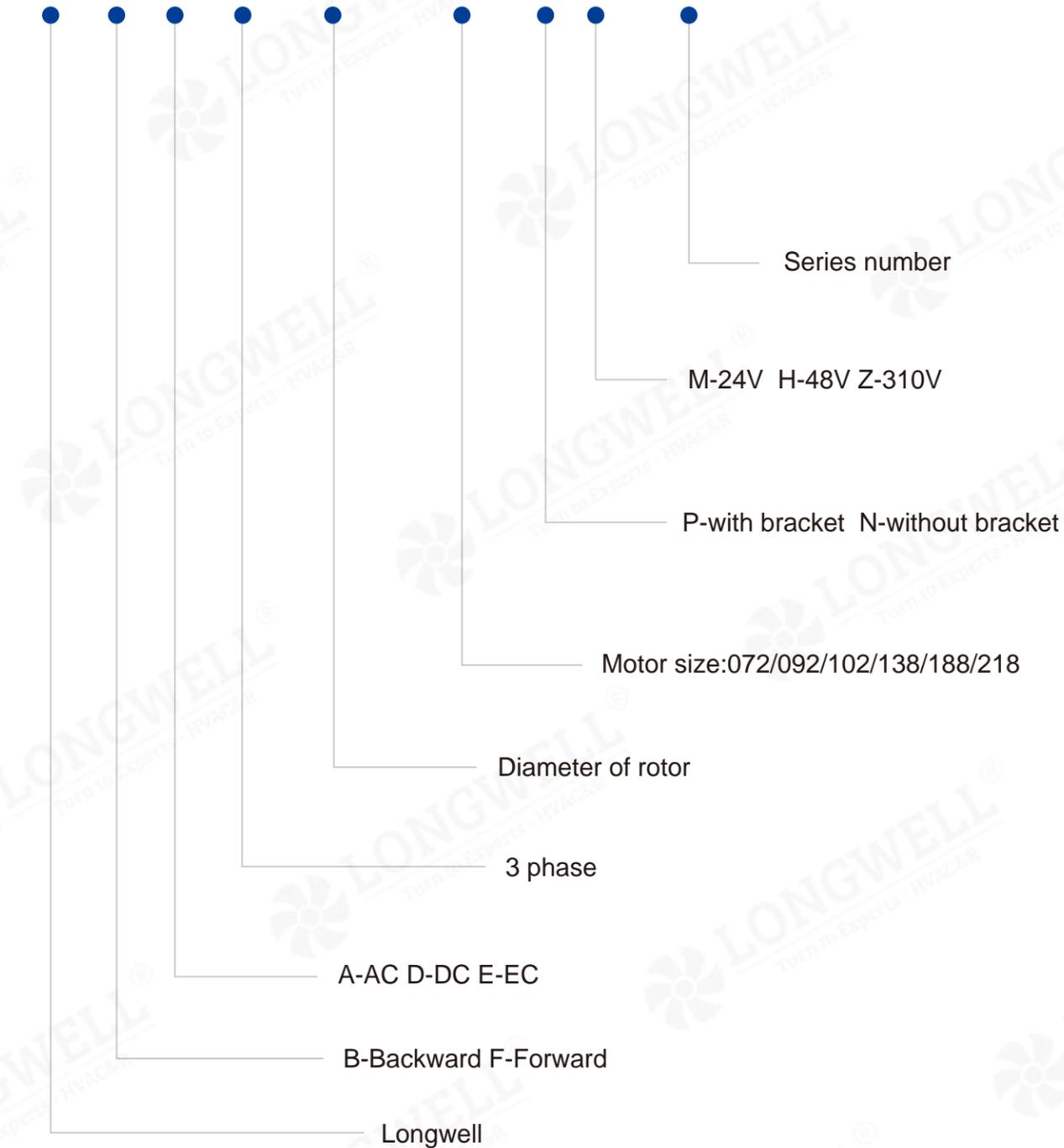
**Ventilation Equipments Project**



**FFU(Fan Filter Unit) Project**

# Type Code

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

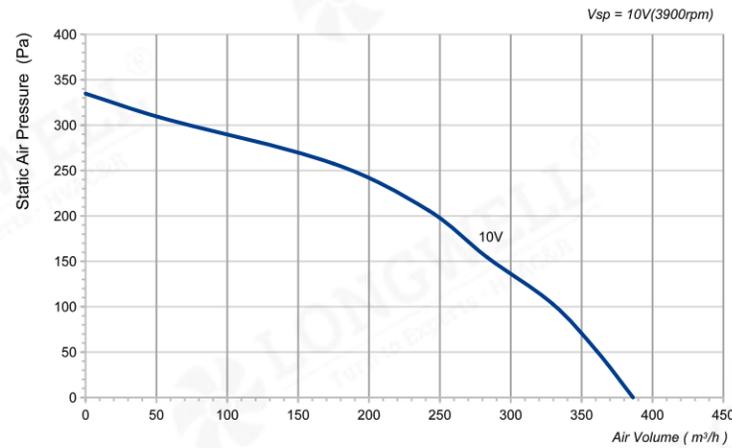


# DC Backward curved Centrifugal Fan

Professional HVAC Fan & Motors Manufacturer



## LWBD-133 Series



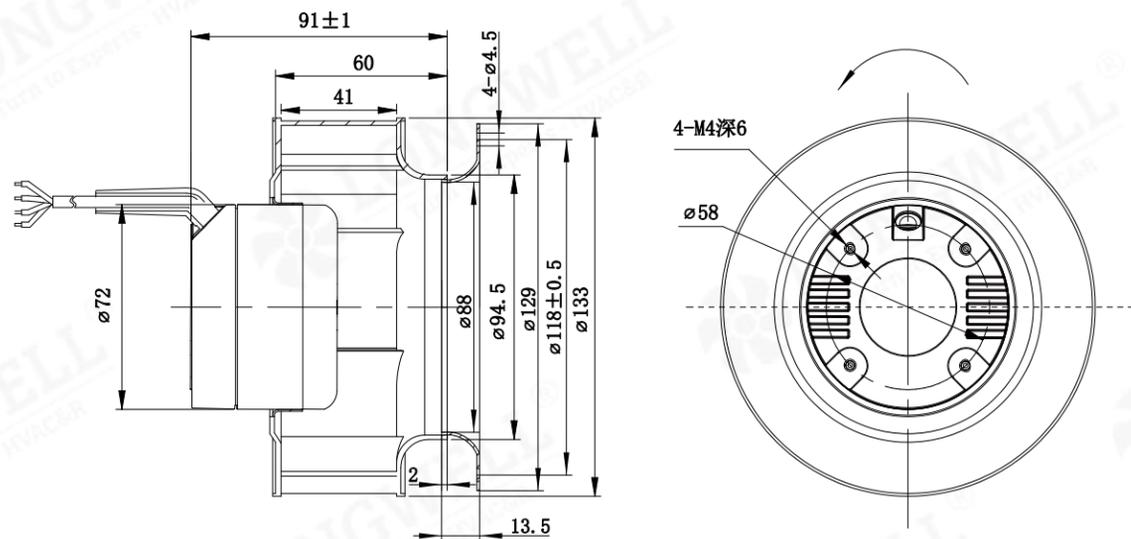
### Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM

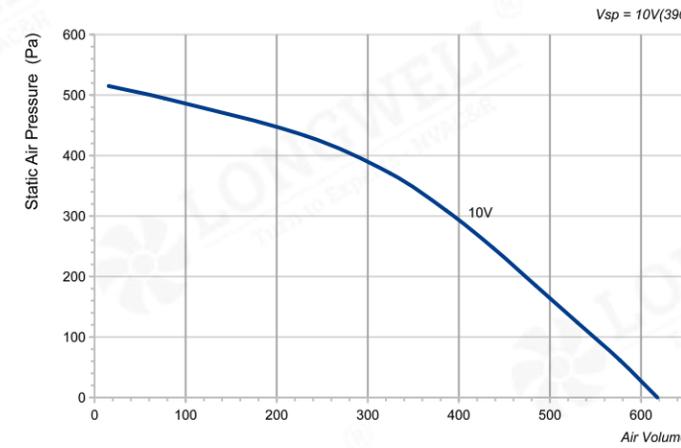


### Technical Specifications

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



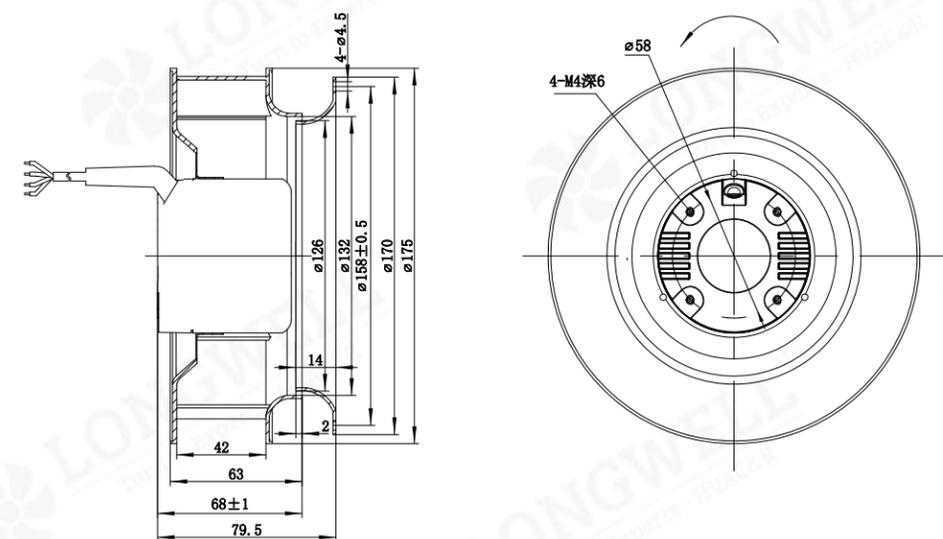
### Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM

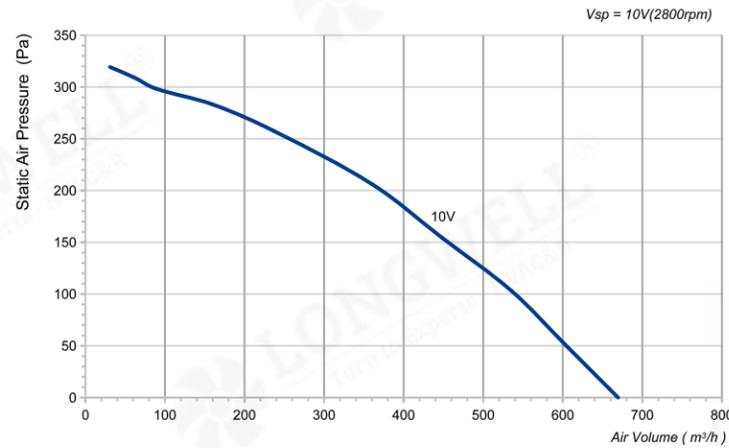


### Technical Specifications

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



## LWBD-175 Series



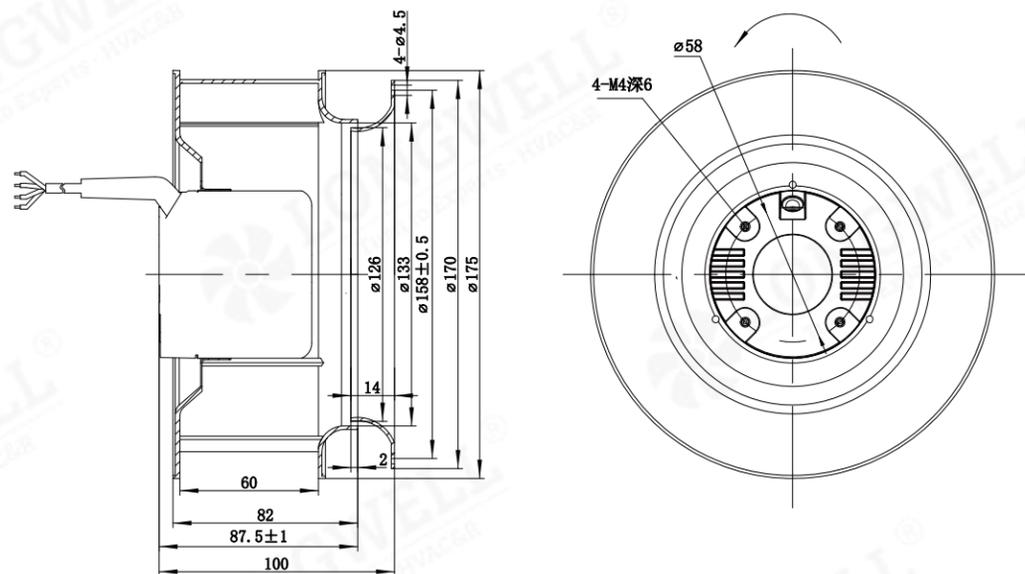
### Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM

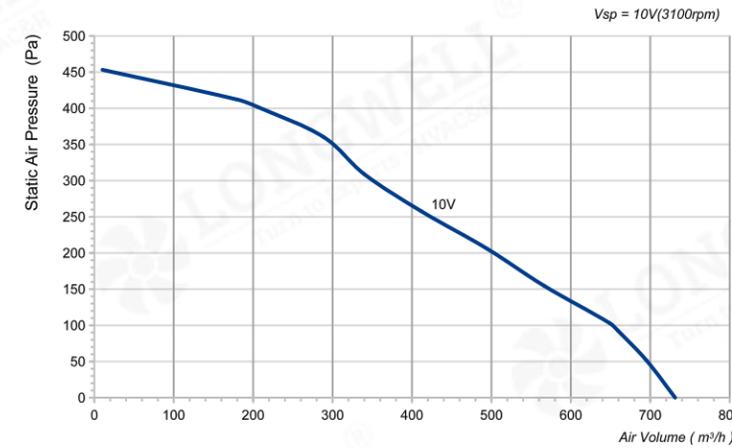


### Technical Specifications

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



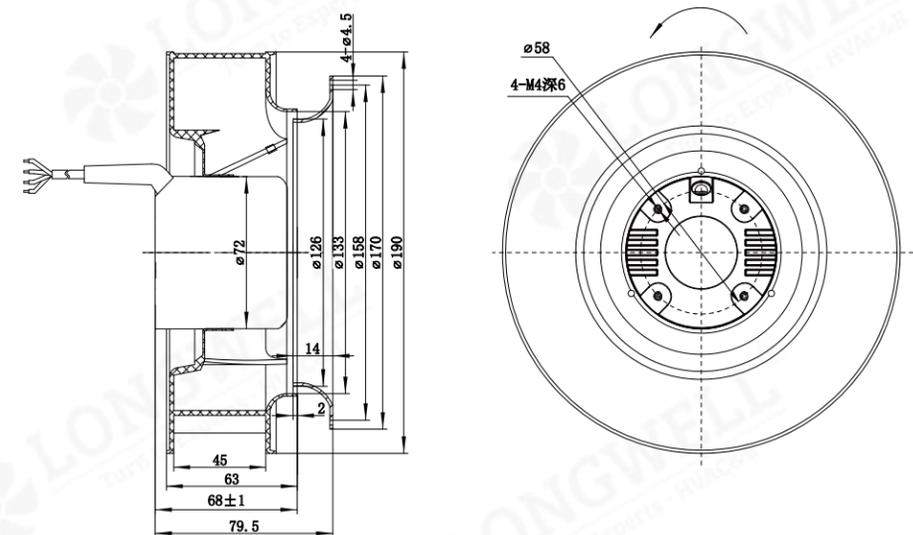
### Product Characteristic

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



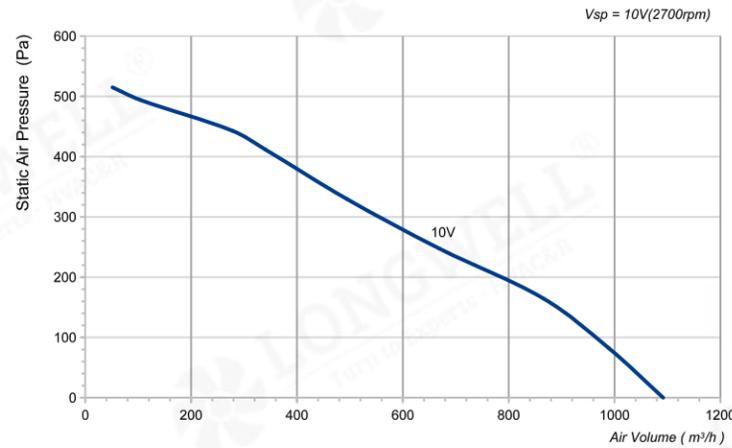
### Technical Specifications

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

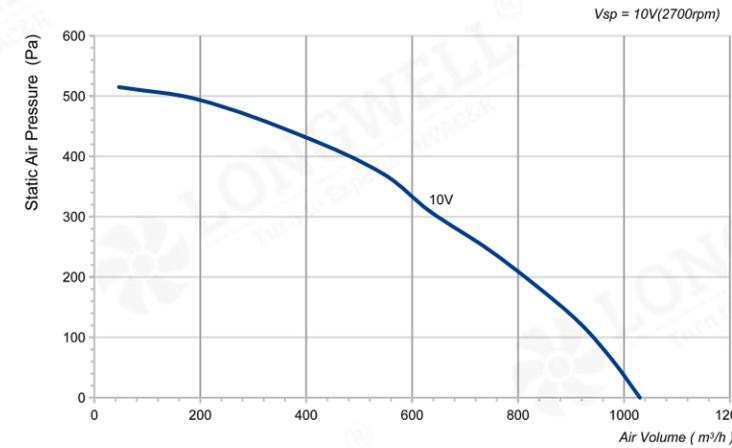




# LWBD-225 Series



# LWBD-225 Series



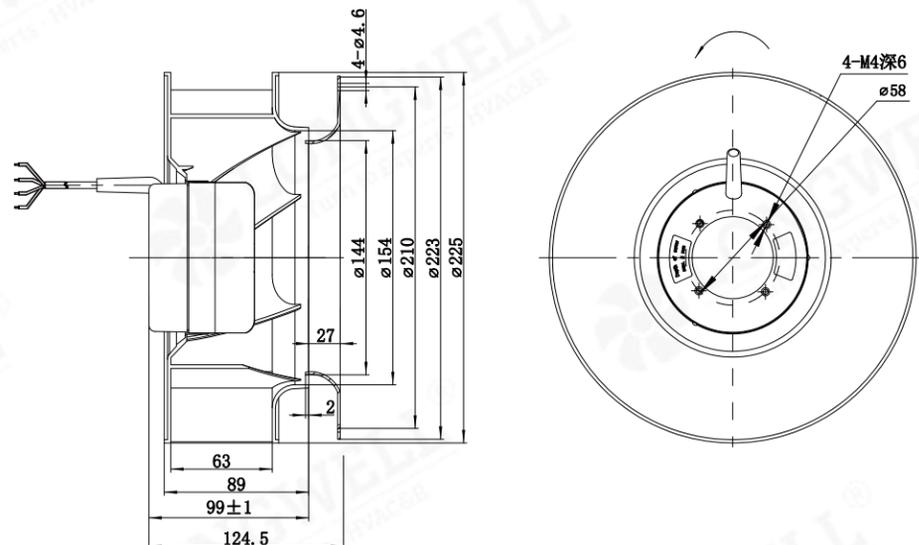
## Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM



## 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



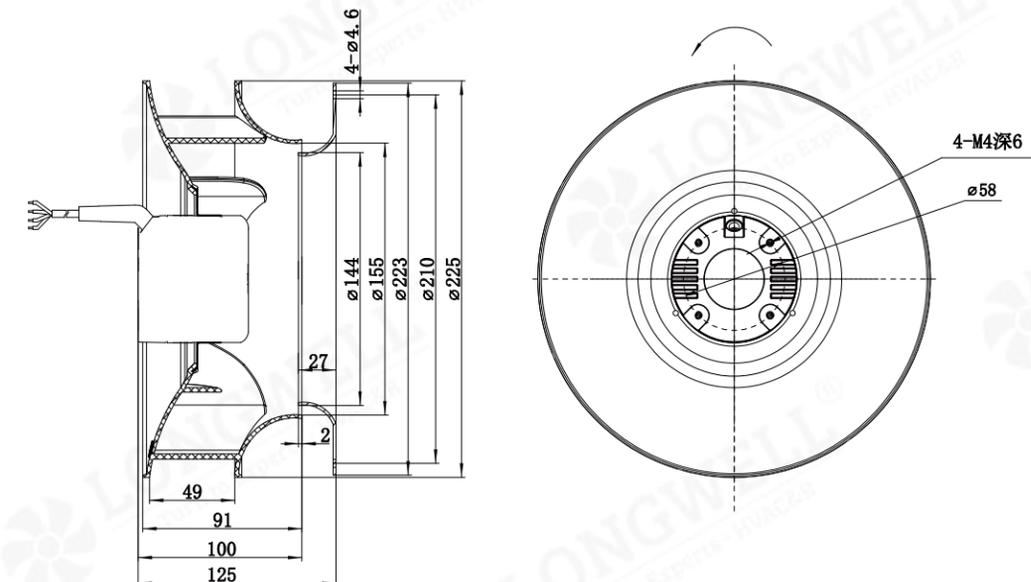
## Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM

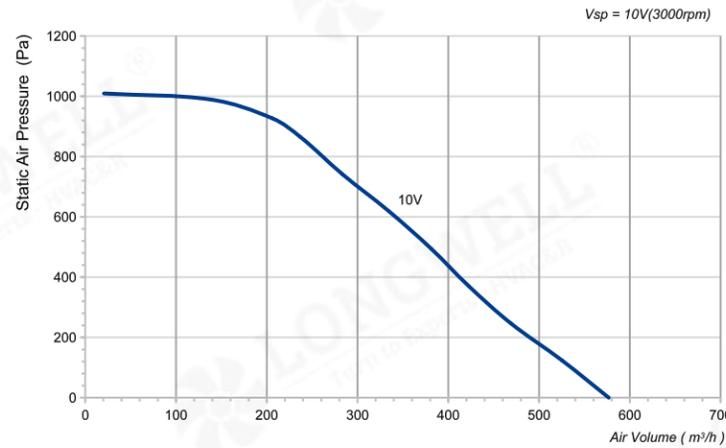


## Technical Specifications

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



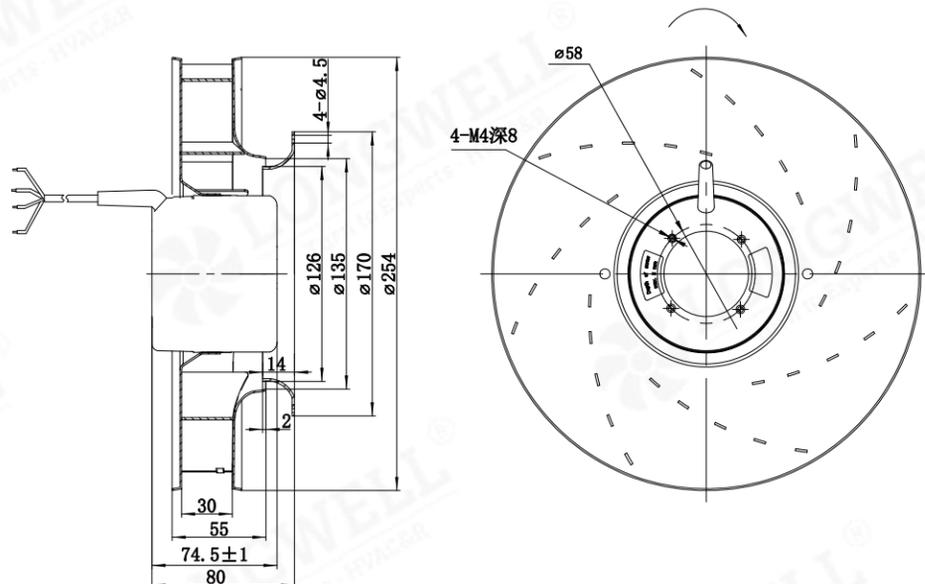
## Product Characteristic

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

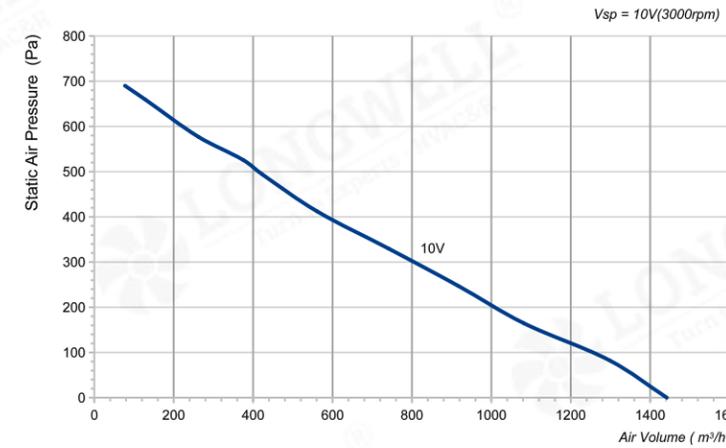


## Technical Specifications

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



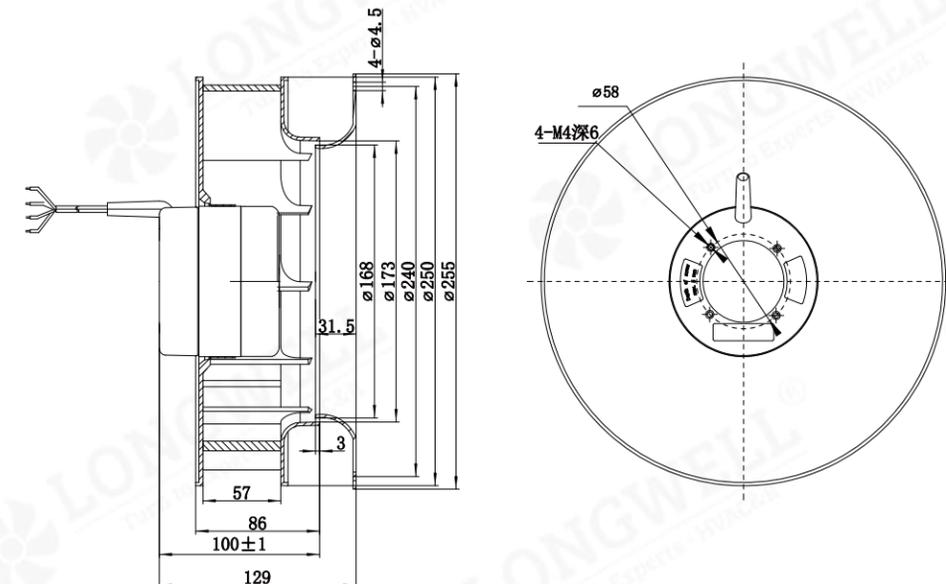
## Product Characteristic

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

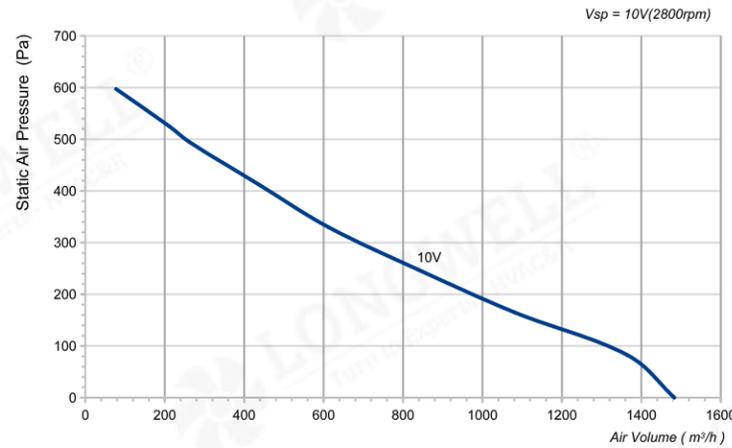


## Technical Specifications

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



## LWBD-250 Series



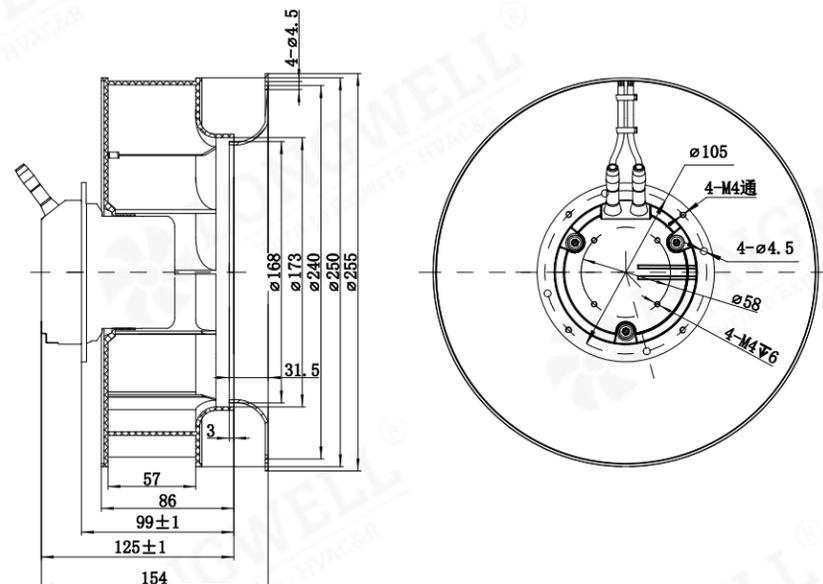
### Product Characteristic

- 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
- Protection: Tach output, Locked-Rotor protection Reverse Polarity, Over-voltage protection, Soft Start
- Motor Type: BLDC
- Mode of Operation: S1
- Insulation Class: F
- Operation Temperature: -25 C ~ +60 C
- Technical Features: Control input 0-10VDC/PWM

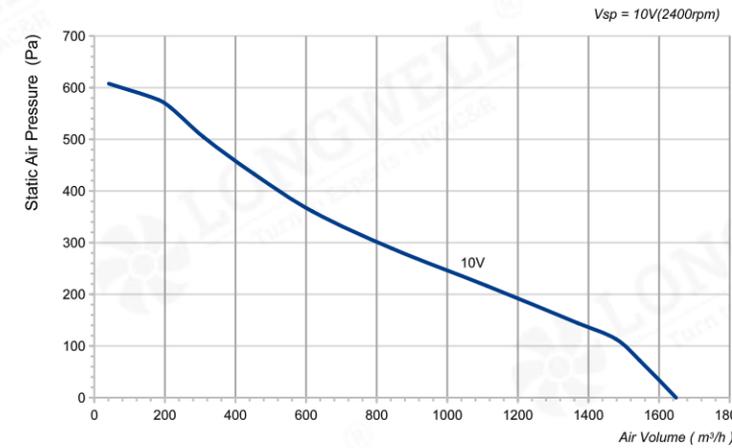


### Technical Specifications

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



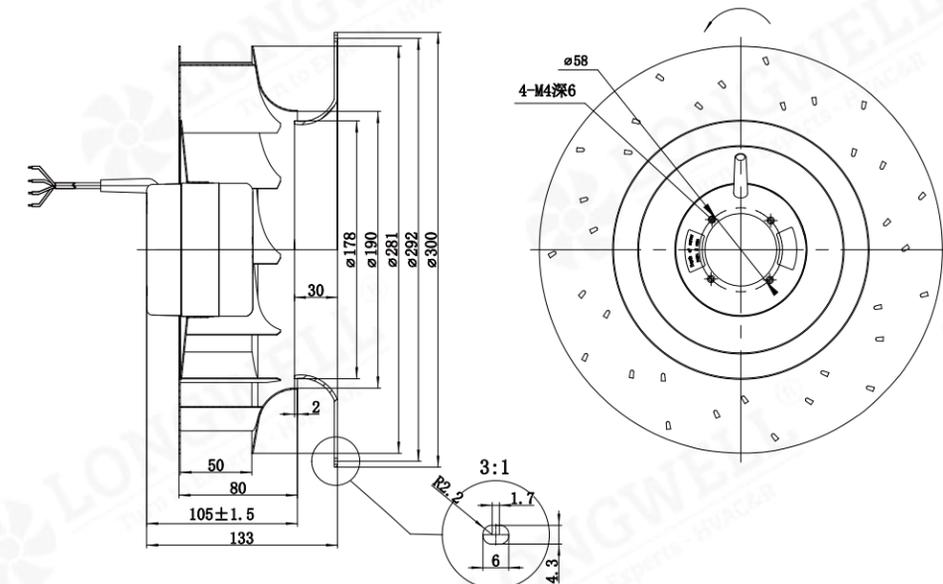
### Product Characteristic

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

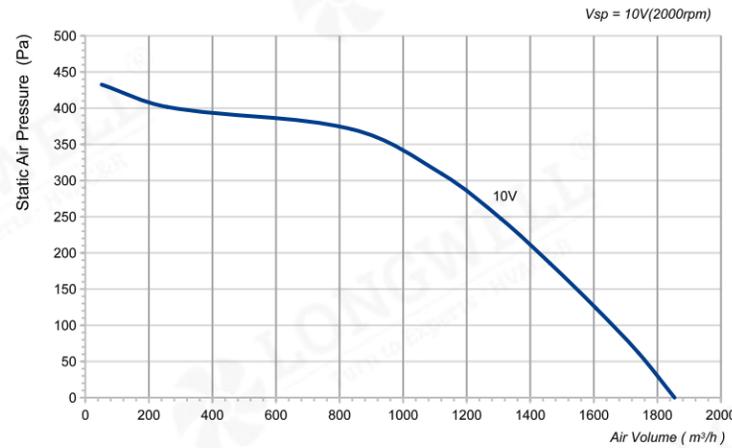


### Technical Specifications

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



# LWBD-280 Series



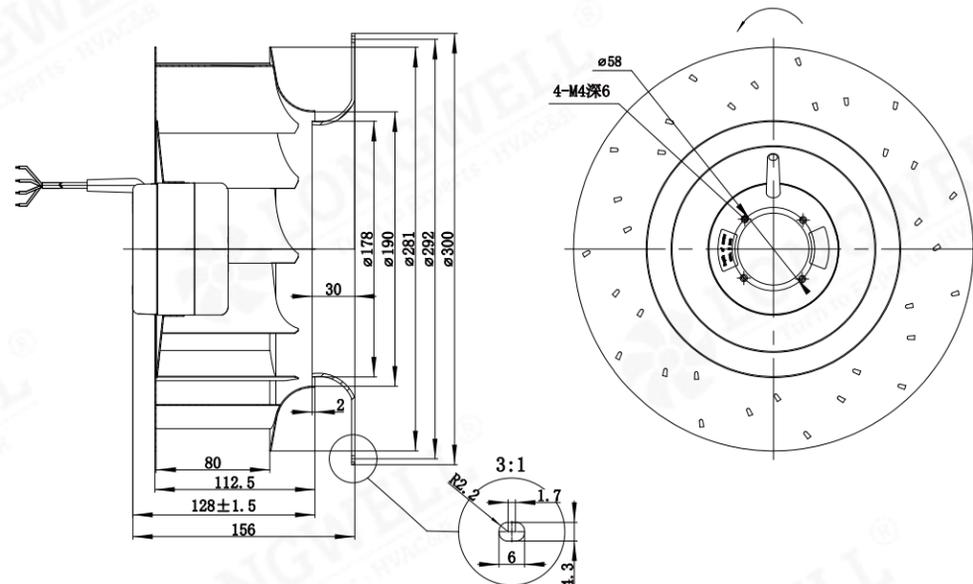
## Product Characteristic

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

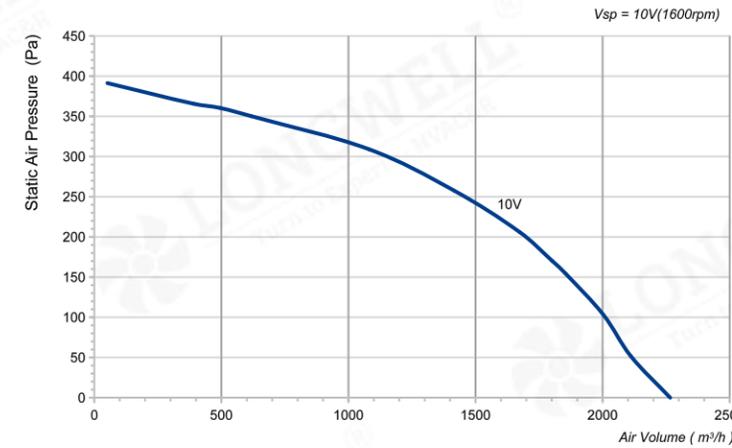


## Technical Specifications

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



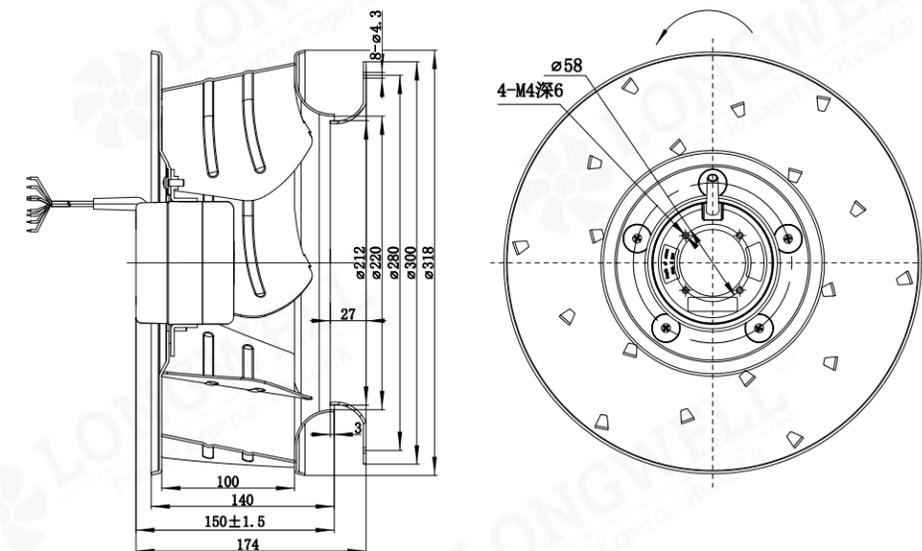
## Product Characteristic

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

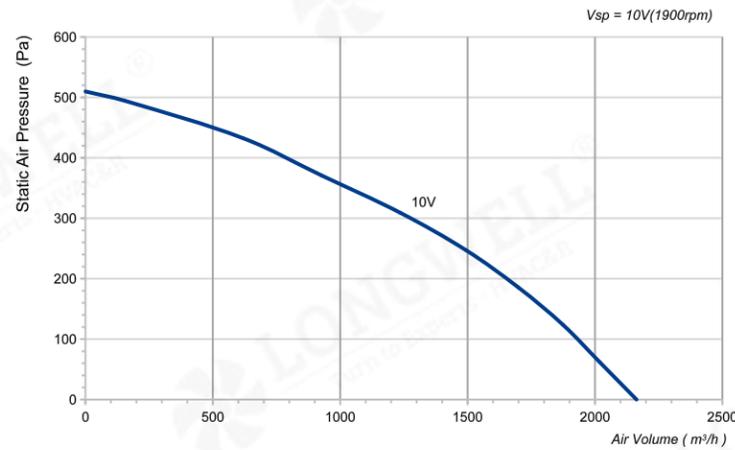


## Technical Specifications

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



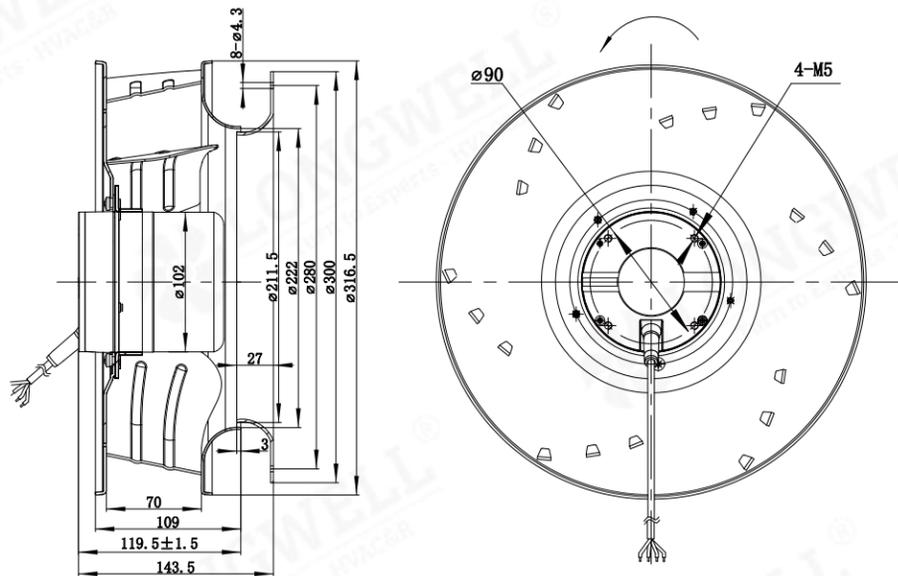
## Product Characteristic

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

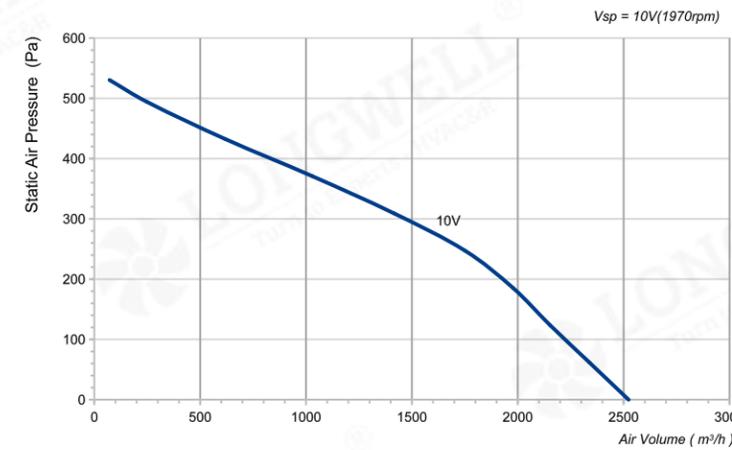


## Technical Specifications

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



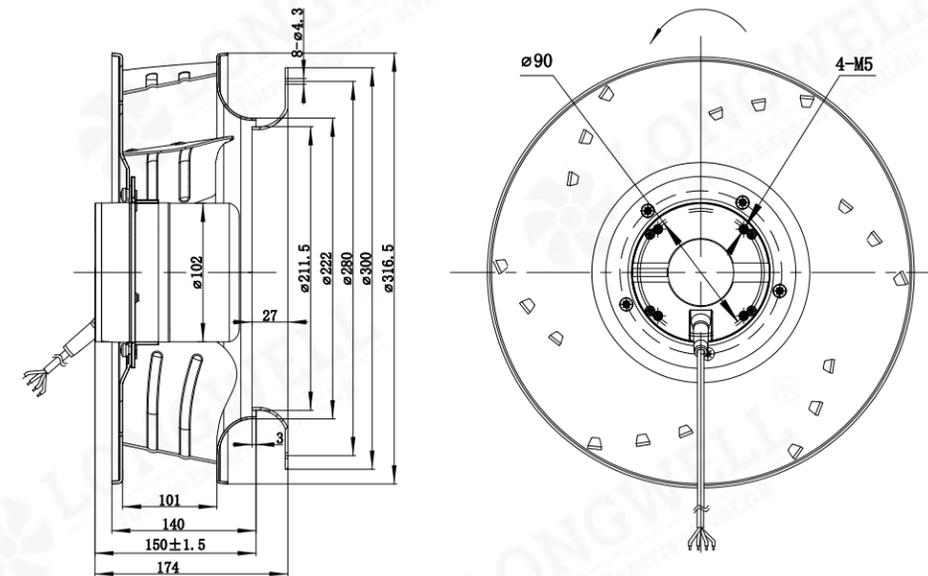
## Product Characteristic

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

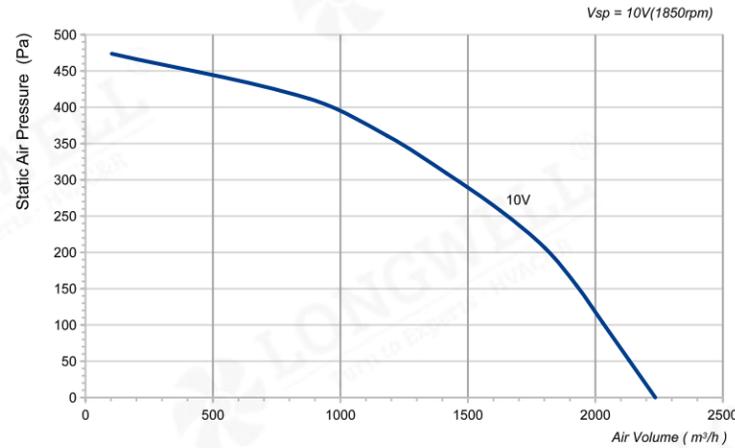


## Technical Specifications

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



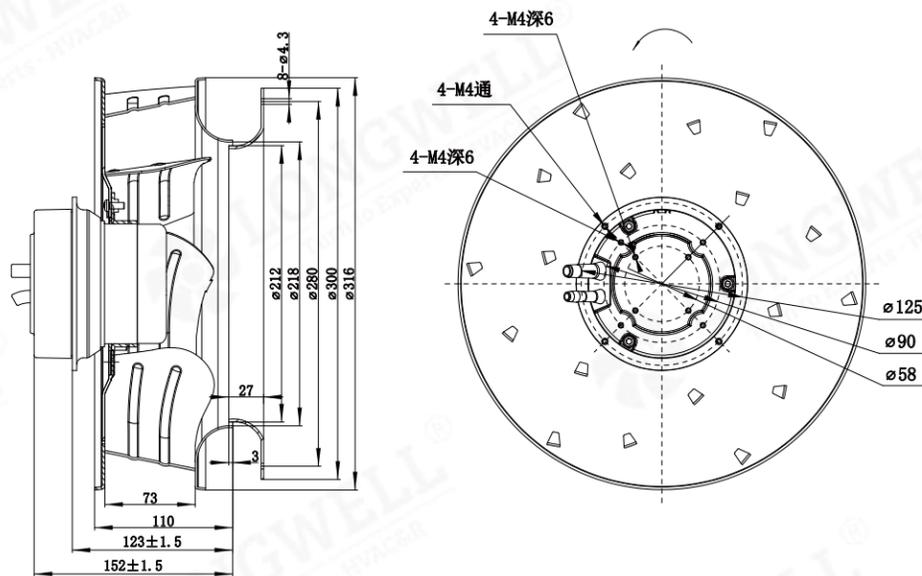
## Product Characteristic

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

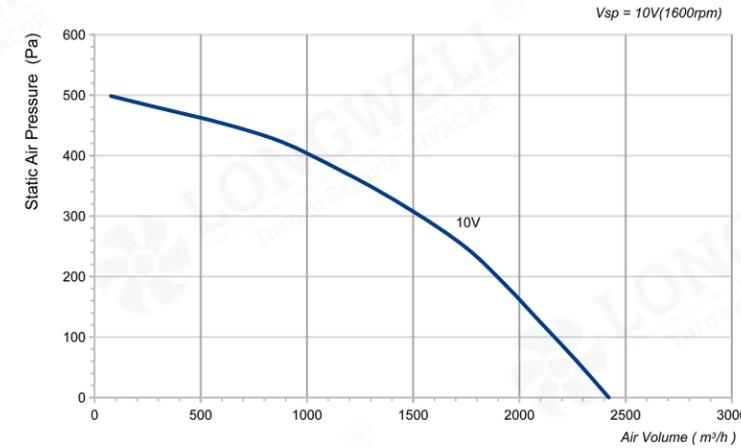


## Technical Specifications

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



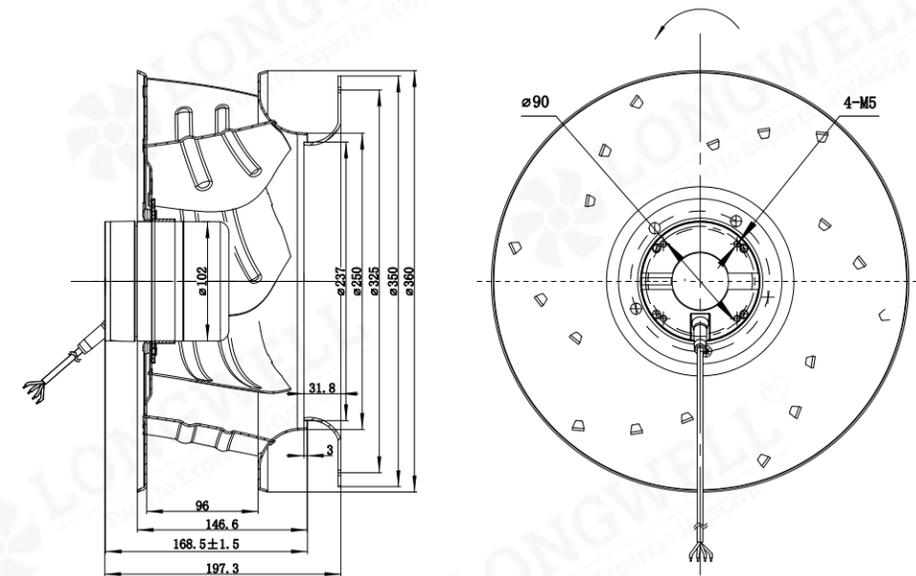
## Product Characteristic

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

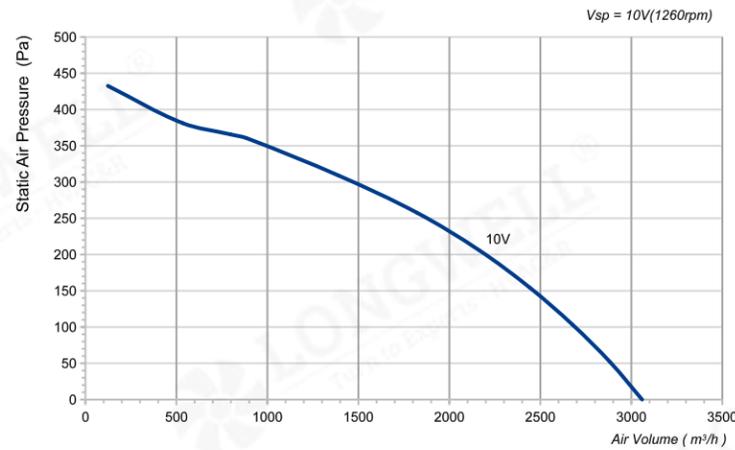


## Technical Specifications

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



# LWBD-400 Series



## Product Characteristic

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



## 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

