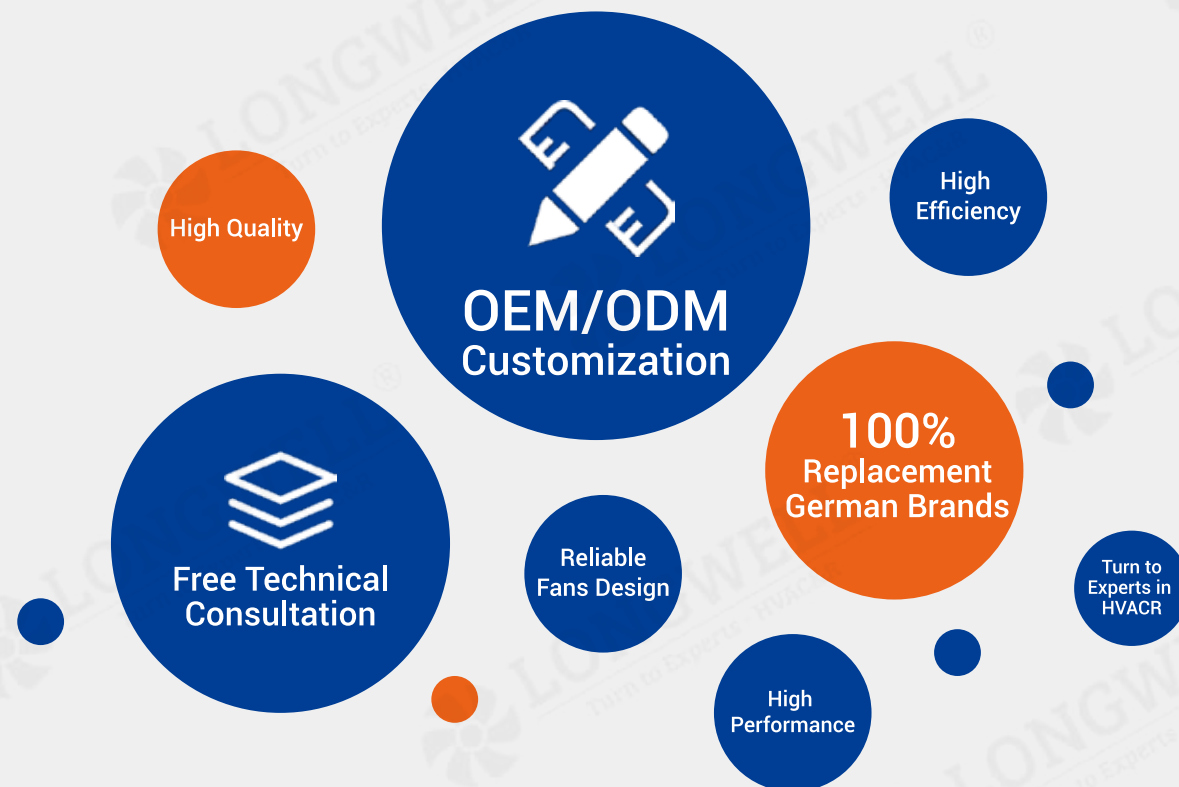


Delivery Premium Quality Fans Globally for Healthier Breathing

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



Ningbo Longwell Electric Technology Co., Ltd

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

Tell: +86 574 6218 9863

Fax: +86 574 6218 9863

Phone: +86 180 5854 5395

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

Email: sales@longwellfans.com



LONGWELL TECHNOLOGY

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



***Professional Manufacturer
of HVACR Fan & Motors***

—— AC Single Inlet Forward Centrifugal Blower

Longwell Group

Longwell-China

Longwell-USA

Longwell-Russia

Longwell-Europe

CATALOGUE

01-02

About Longwell

03-04

Testing and Standards

05

Type Code

06-14

AC Single Inlet Forward
Centrifugal Blower(Φ120-Φ153)

15-25

AC Single Inlet Forward
Centrifugal Blower(Φ160-Φ315)



About Longwell

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

OEM for Well-Known Brands

Supplies Fortune 500 Companies

Global Technical Support

LONGWELL is a leading fan manufacturer, specializing in high-quality fans, blowers, motors, and components for heating, ventilation, air conditioning, and refrigeration applications. We have a strong presence in delivery capabilities, design and R&D capabilities, as well as manufacturing, placing us at the forefront of the industry.

Our product range includes EC/DC/AC centrifugal fans, axial fans, AC/BLDC cross-flow fans, single/double forward curved fans, AC/BLDC/ECM motors, and industrial fan blowers. Since our establishment in 1990, we have continuously upgraded our facilities and production capacity, boasting advanced testing labs and production facilities with an annual capacity of millions of fans. With over 20 years of experience, we are highly skilled in the design, development, and manufacture of fans and motors. We export to over 30 countries and serve numerous Fortune 500 clients.

Our facilities and products are compliant with certifications such as ISO9001, ISO14001, BSCI, CE, UL/ETL, CCC, EMC, and LVD. These certifications demonstrate our compliance in quality management, environmental management, social responsibility, and product safety. We are quality-oriented and dedicated to providing products and services that meet international standards.



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

As industry leaders, we prioritize technological innovation and efficiency. We employ advanced technologies such as aerodynamics principles and CFD simulation to ensure precise and efficient fan designs. Additionally, we offer customized services to design and manufacture fan systems according to specific customer requirements. Our focus is on providing high-tech, high-efficiency products that meet our customers' needs and contribute to a better future.

At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials to deliver products that are efficient, safe, and reliable. Our brand is widely recognized globally, and we are committed to promoting sustainable development and advancing the efficient fan industry.

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

193

Staff

40000m²

Floor Space

500⁺

Branding Clients

1Million⁺ PCS

Annual Outputs

6

Overseas offices
on spot support

50⁺

Members
R&D Team



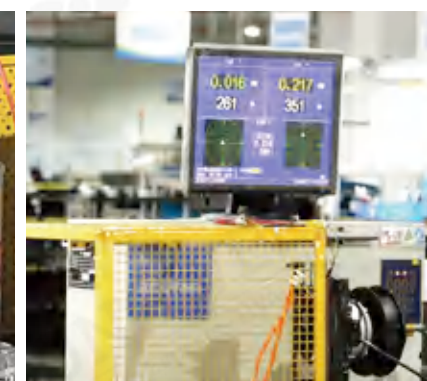
B&K Noise Testing Lab



Production Line



Automatic Welding



Balance Machine



Automatic Welding Machine



Production Line - Centrifugal Fan



Automatic CNC machine



Air Dynamic Test Lab



Production Line - Axial Fans



Production Line

Testing and Standards

- ISO 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 +A1:2014 +A13:2017 +A1:2019+A14:2019 +A2:2019+A15:2021
EN 62321-1:2013/EN 62321-2:2014/EN 62321-3-1:2014
EN 62321-4:2014+A1:2017/EN 62321-5:2014/EN 62321-6:2015
EN 62321-7-1:2015/EN 62321-7-2:2017/EN 62321-8:2017



Enterprise Credit Evaluation Certificate - Highest Level in China



Own-Brand



Own-Brand



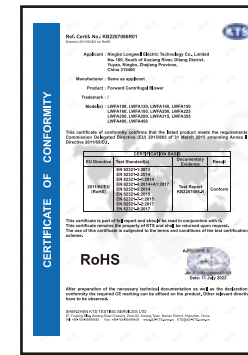
ETL



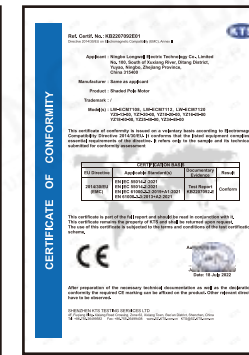
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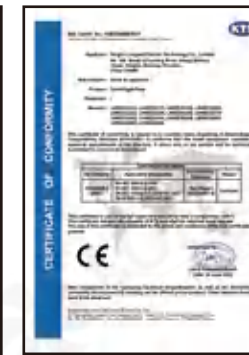
CE



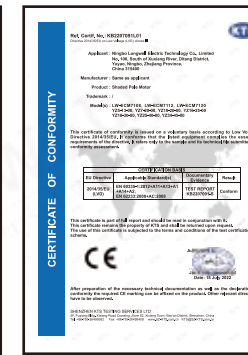
RoHS



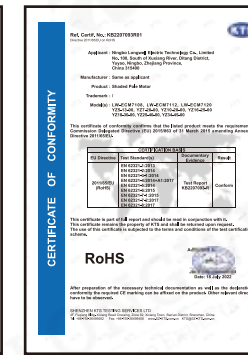
CE



CE



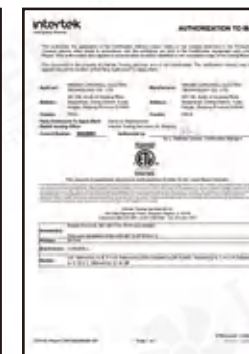
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RoHS



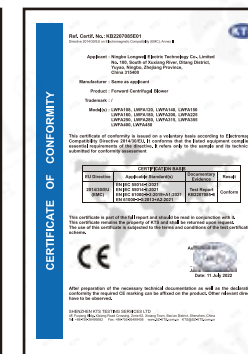
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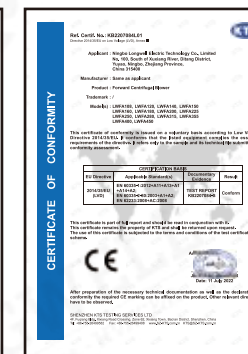
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ETL



CE



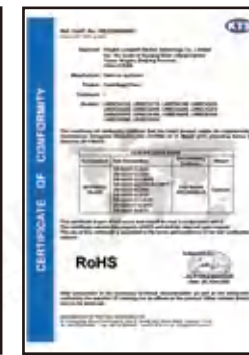
CE



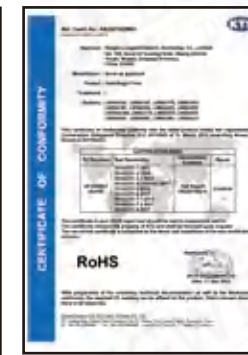
ISO 9001



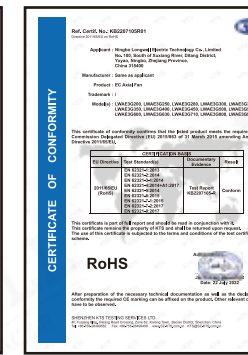
ISO 9001



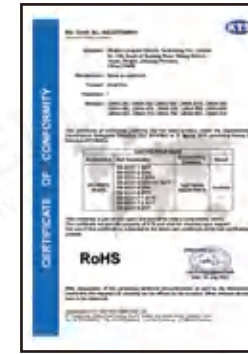
RoHS



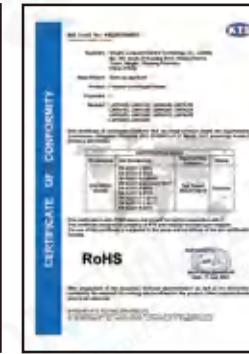
RoHS



RoHS



RoHS



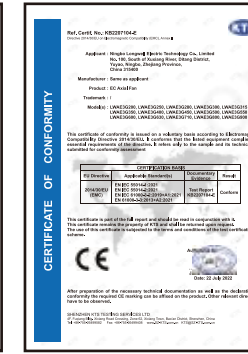
RoHS



CE



CE



CE

Type Code

LW F A 4E 120 - 092 S S - 01

Series number

T-380VAC S-230VAC U-115V
L-12VDC M-24VDC
H-48VDC Z-310VDC

N-Without housing/bracket
S-Single inlet with housing
D-Dual-inlet with housing
P-with bracket

Diameter of Rotor:072/092/102/138/188/218

Diameter of Impeller

2E-2pole 4E-4pole 6E-6 pole 6D-6pole
8D-8pole 3G-3 phase 1G-Single phase

A-AC D-DC E-EC

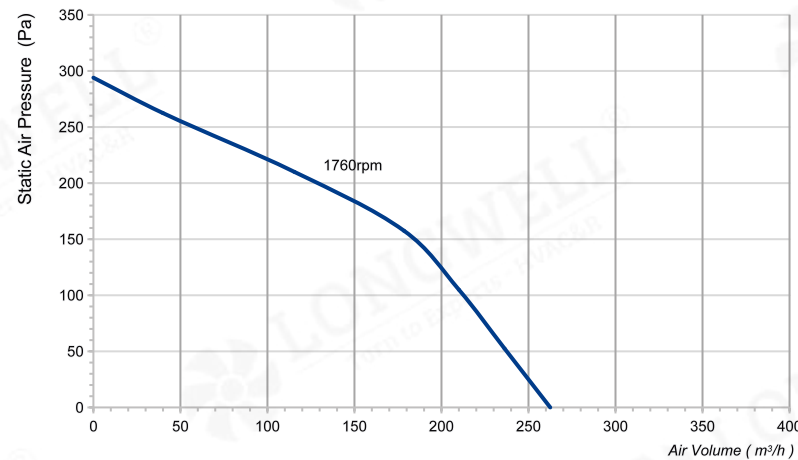
B-Backward F-Forward

LW-Longwell

AC Single Inlet Forward Centrifugal Blower



LWFA-120 Serise



RECOMMEND

Product Characteristic

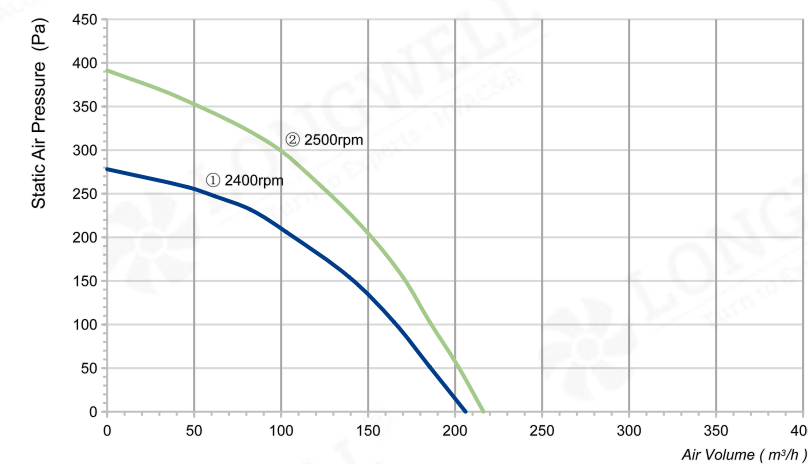
- Material: Galvanised sheet steel
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 C ~ +60 C



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E120-092SS-01	230	50	54	0.24	1760	263	294	59	2uF	/

LWFA-120 Serise



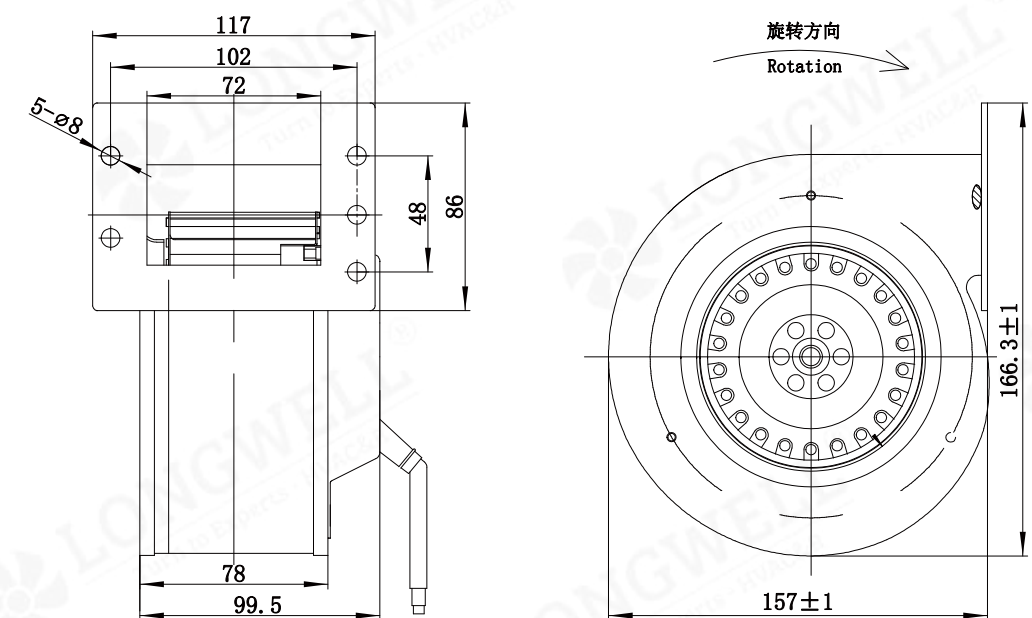
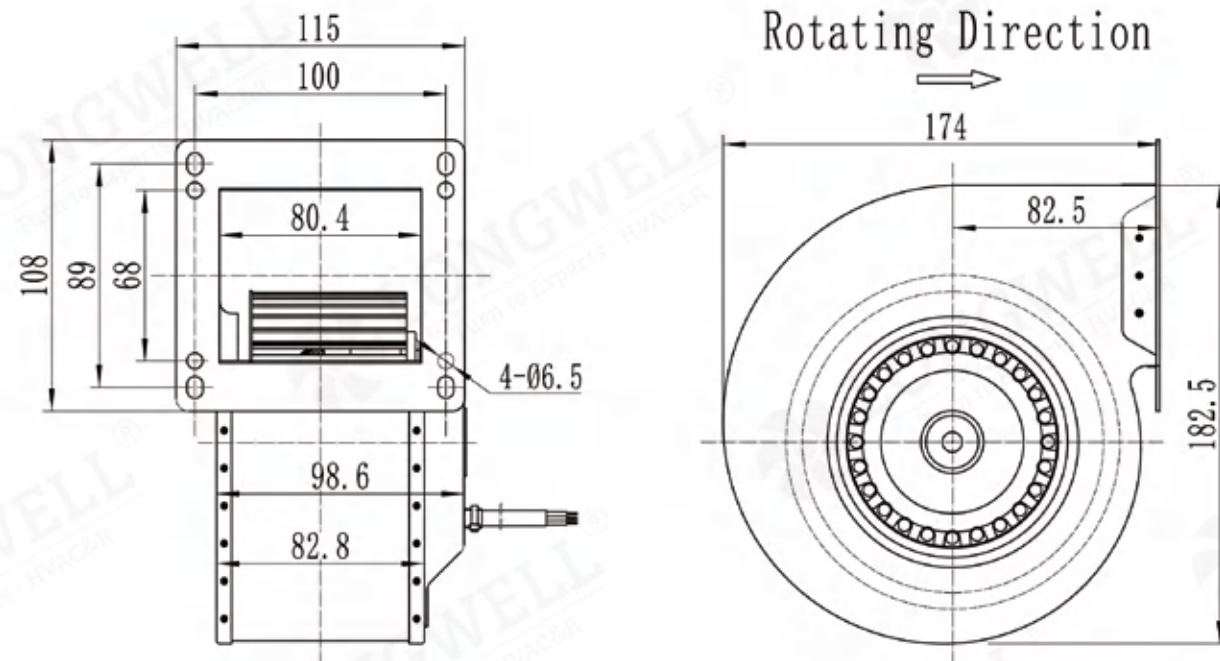
Product Characteristic

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

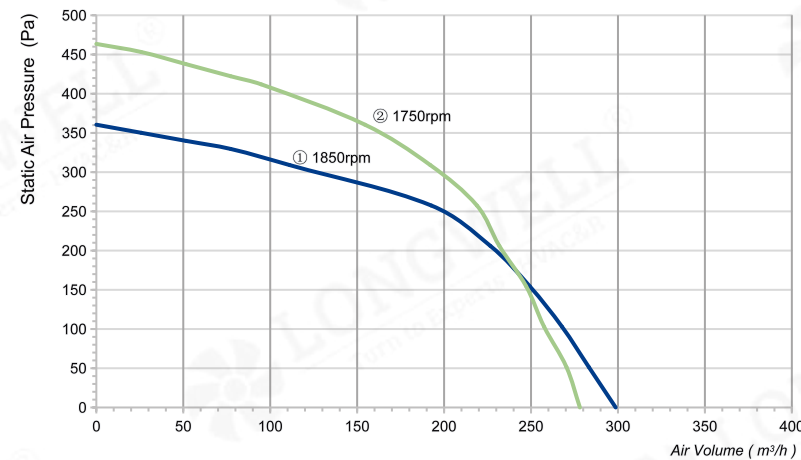


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E120-092SS-02	230	50	58	0.27	2400	206	278	51	1.5uF	①
LWFA2E120-092SS-03	230	60	73	0.33	2500	216	391	53	1.5uF	②



LWFA-133 Serise



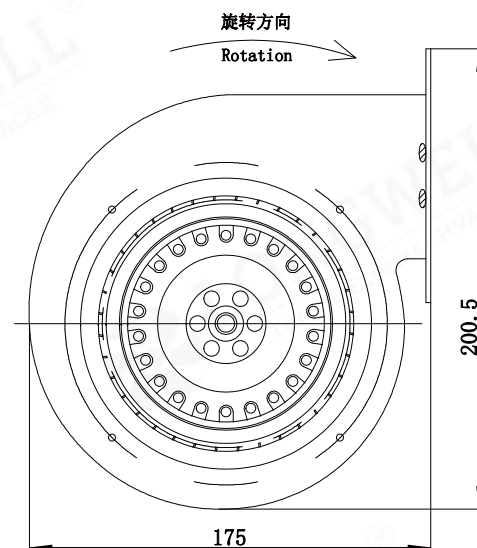
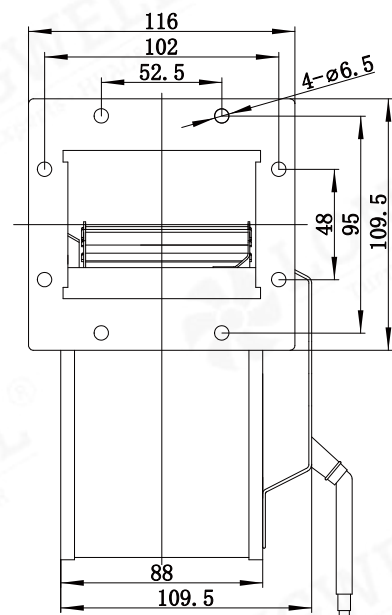
Product Characteristic

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

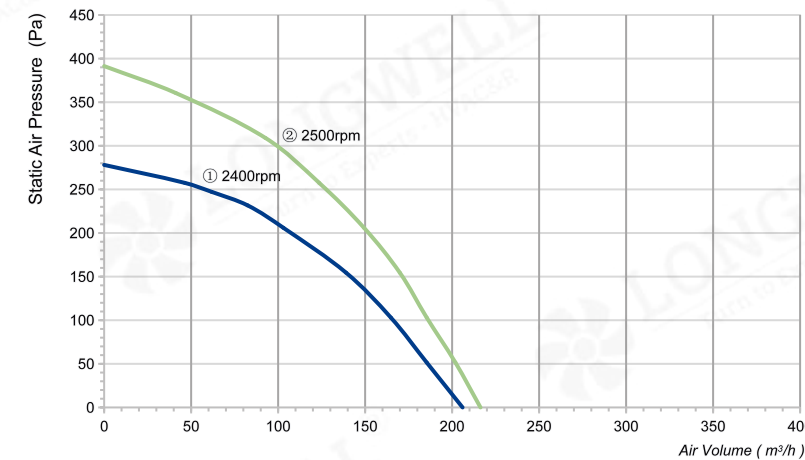


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092SS-01	230	50	83	0.37	1850	299	361	61	2uF	①
LWFA2E133-092SS-02	230	60	95	0.43	1750	278	464	63	2uF	②



LWFA-133 Serise



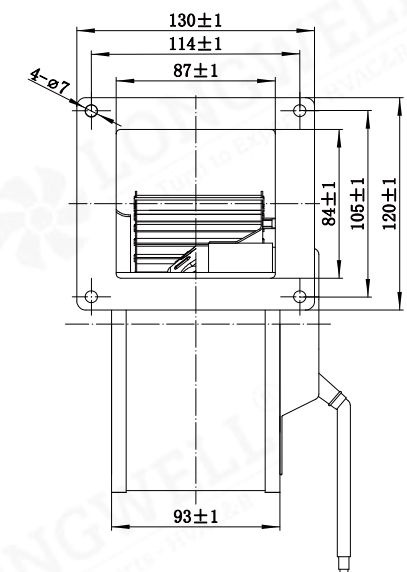
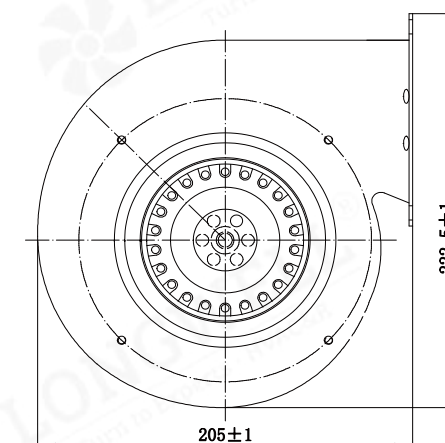
Product Characteristic

- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 C ~ +60 C

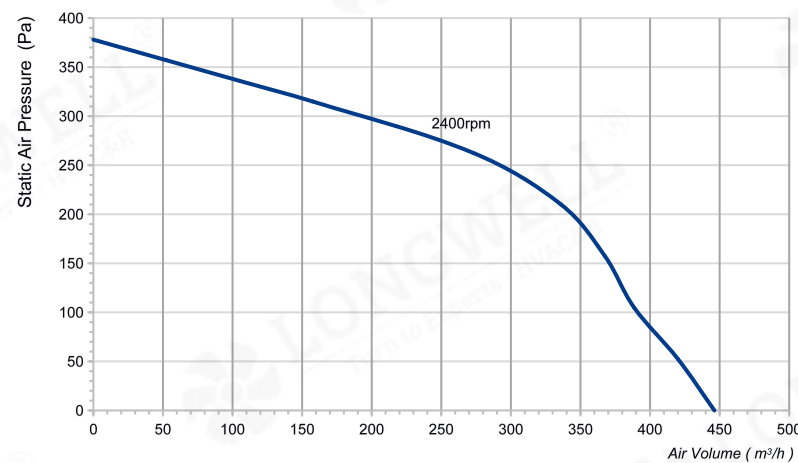


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092SS-03	230	50	85	0.38	1600	319	433	56	2uF	①
			60	0.28	1100	206	350	47	2uF	②
			50	0.25	800	146	288	40	2uF	③



LWFA-140 Serise



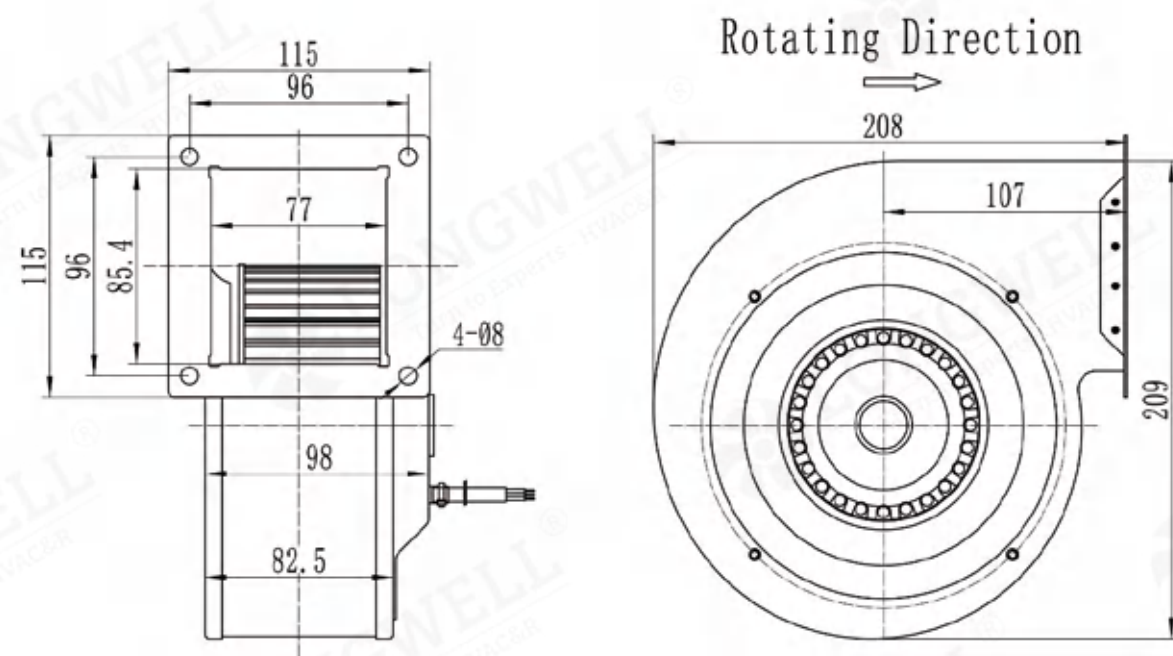
Product Characteristic

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

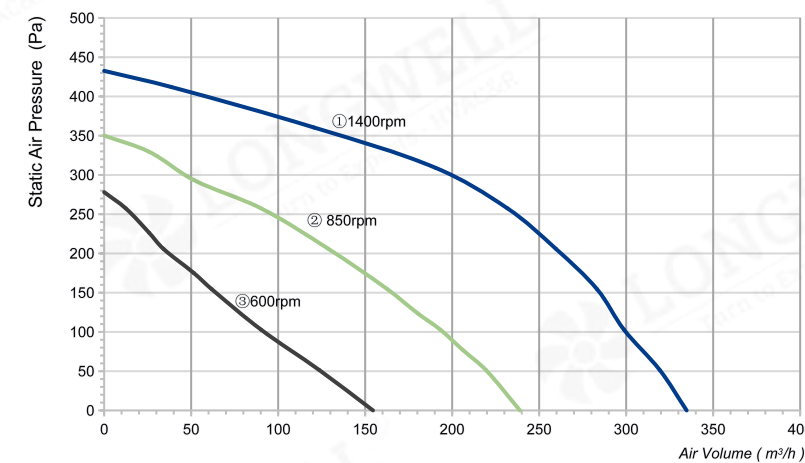


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E140-092SS-01	230	50	148	0.67	2400	446	378	65	5uF	/



LWFA-140 Serise



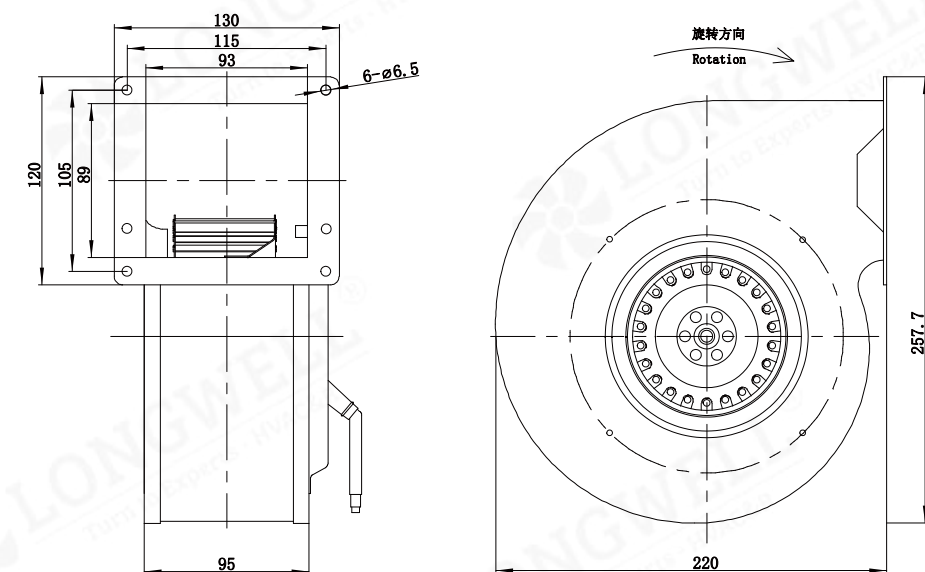
Product Characteristic

- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 C ~+60 C

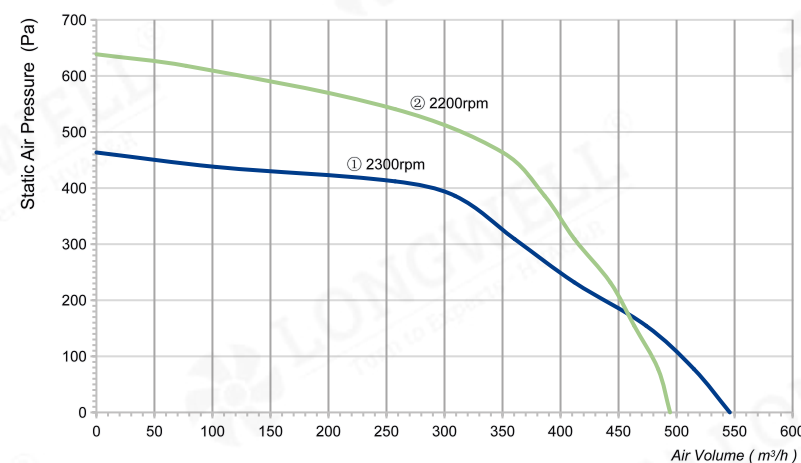


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E140-092SS-02	230	50	90	0.4	1400	335	433	52	2uF	①
			60	0.3	850	239	350	40	2uF	②
			50	0.25	600	155	278	32	2uF	③



LWFA-150 Serie



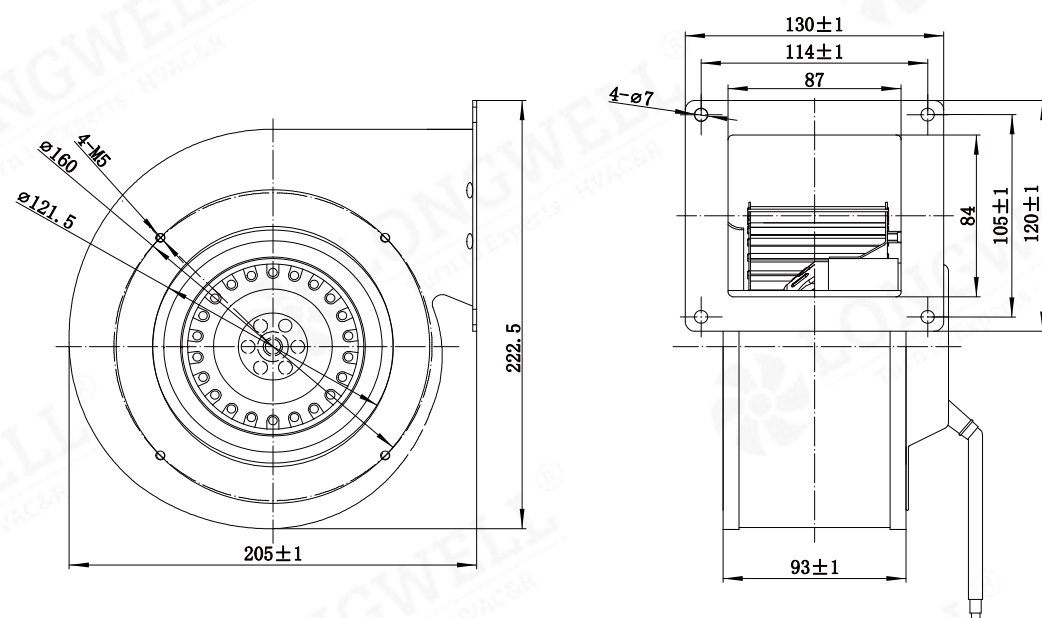
Product Characteristic

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

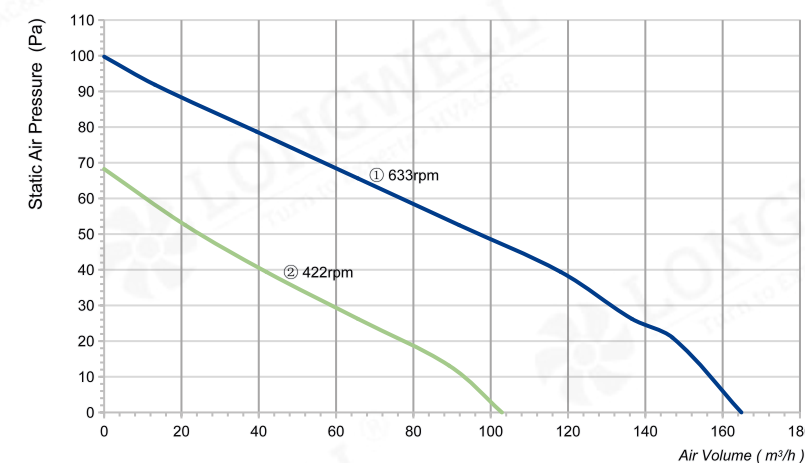


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E150-092SS-01	230	50	183	0.83	2300	546	464	63	4uF	①
LWFA2E150-092SS-02	230	60	230	1.04	2200	494	639	68	4uF	②



LWFA-153 Serie



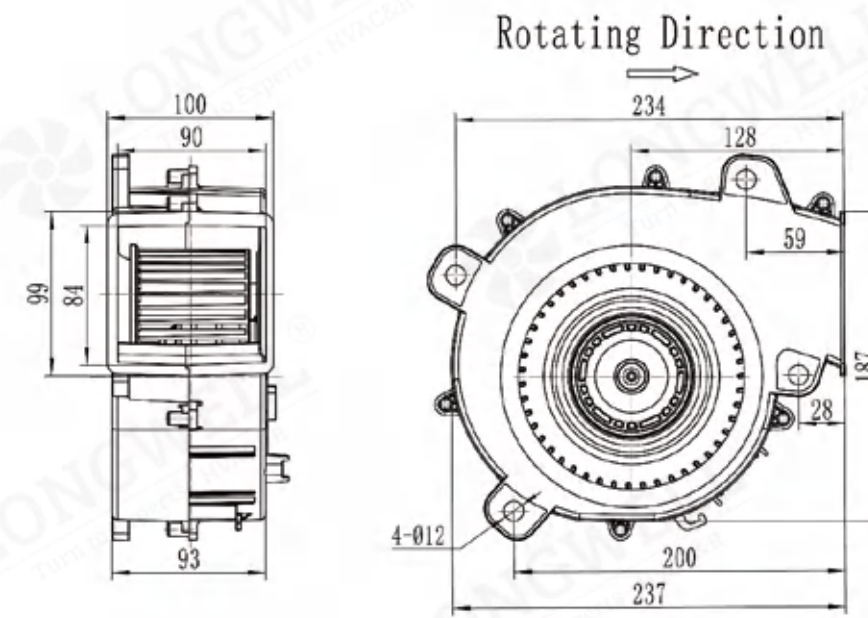
Product Characteristic

- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 °C ~ +60 °C

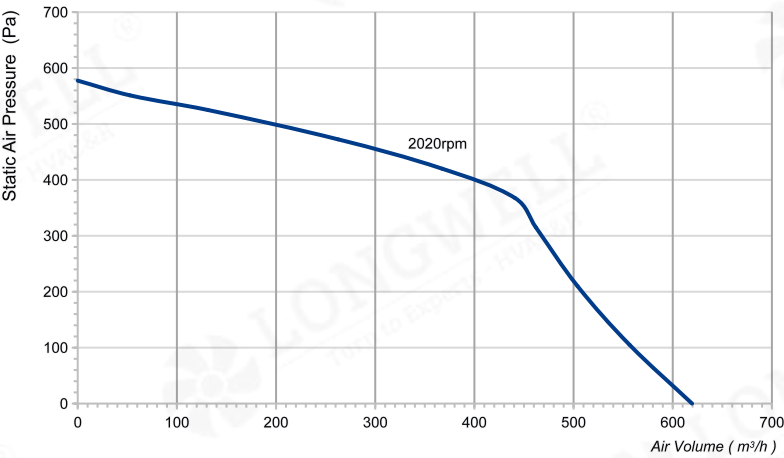


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA8E153-072SS-01	230	50	28	0.12	630	165	100	/	0.6uF	①
			22	0.1	422	103	68	/	0.6uF	②



LWFA-160 Serise



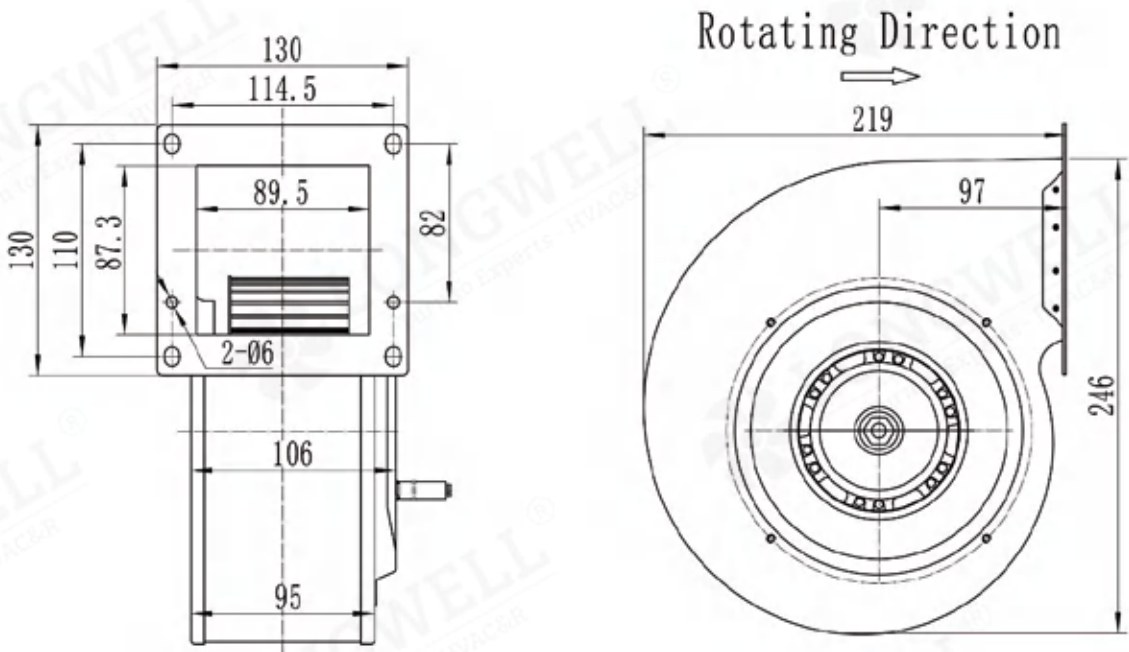
Product Characteristic

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

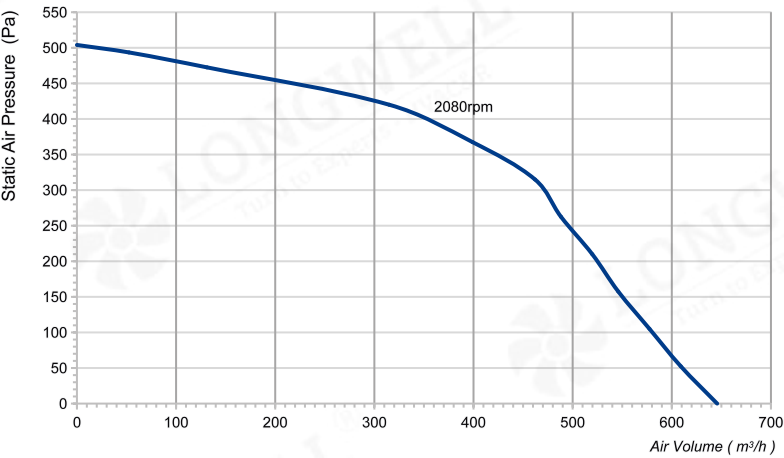


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E160-092SS-01	230	50	222	1.01	2020	620	578	65	6uF	/



LWFA-160 Serise



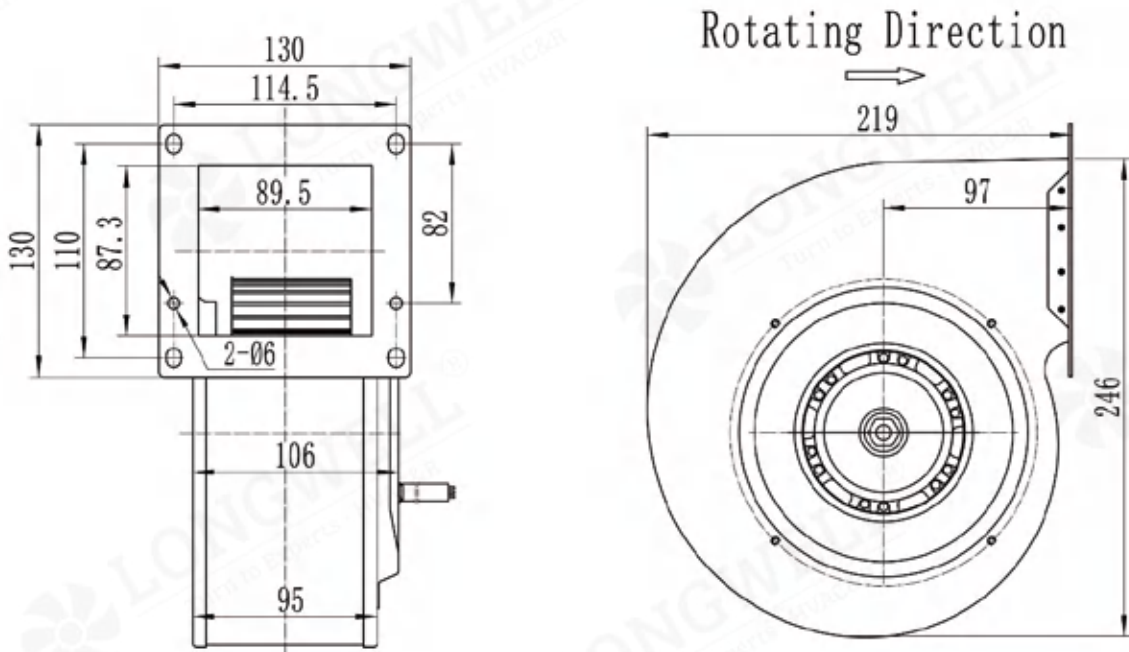
Product Characteristic

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

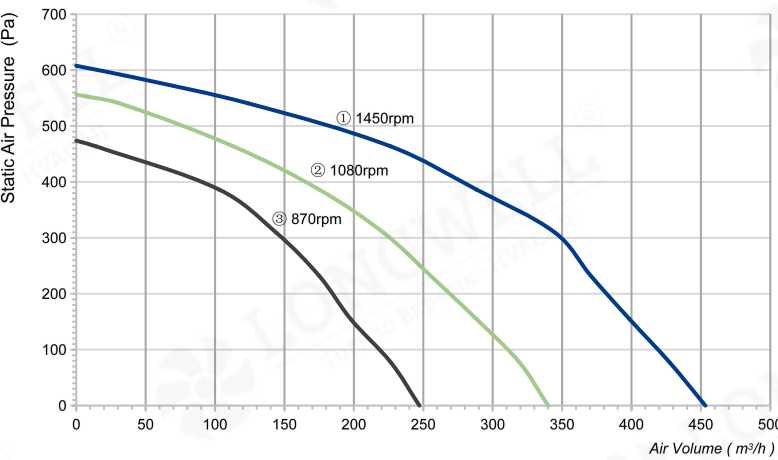


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2D160-092ST-02	380	50	237	0.45	2080	646	504	66	/	/



LWFA-160 Serise



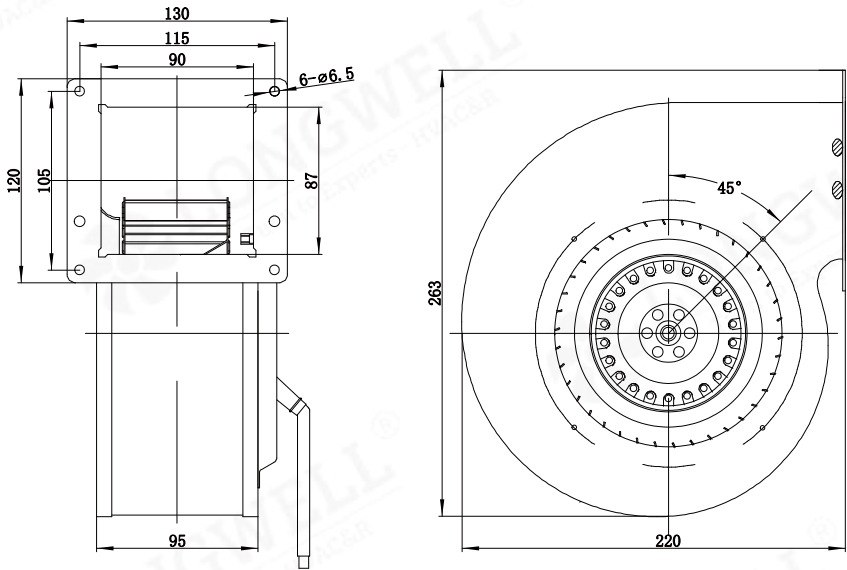
Product Characteristic

- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 C ~ +60 C

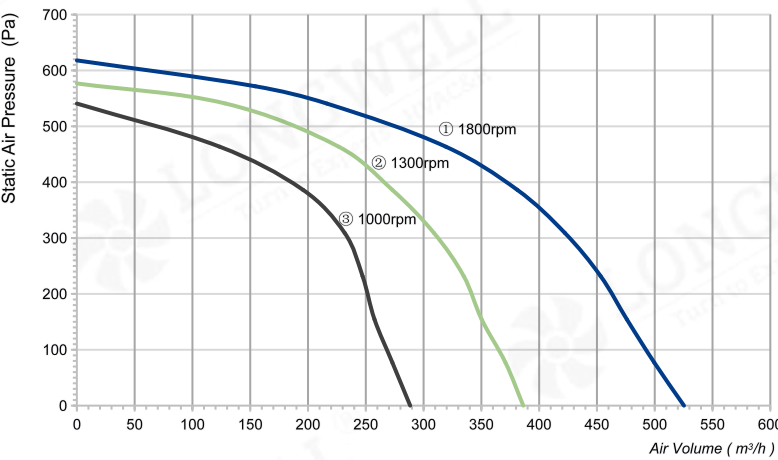


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E160-092SS-03	230	50	150	0.67	1450	453	608	57	3.5uF	①
			120	0.55	1080	340	556	49	3.5uF	②
			100	0.47	870	247	474	43	3.5uF	③



LWFA-160 Serise



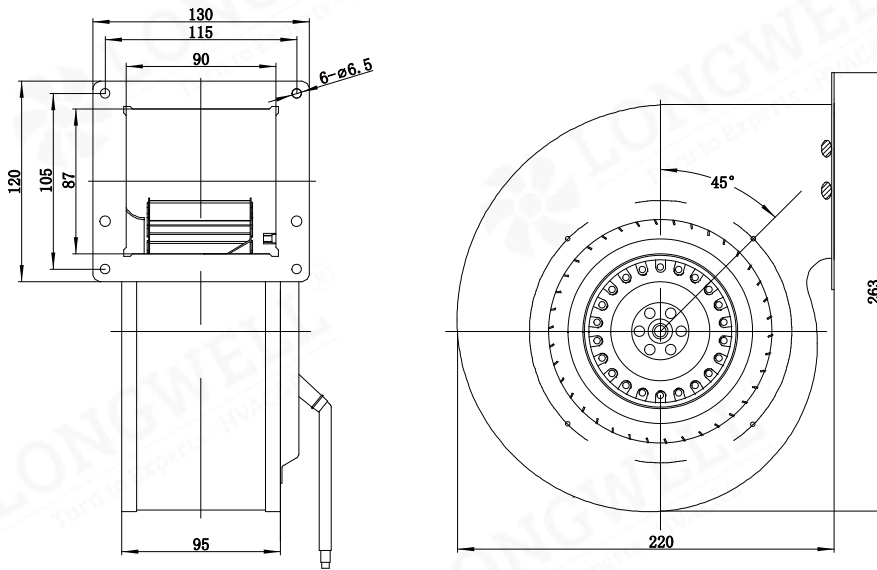
Product Characteristic

- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30 C ~ +60 C

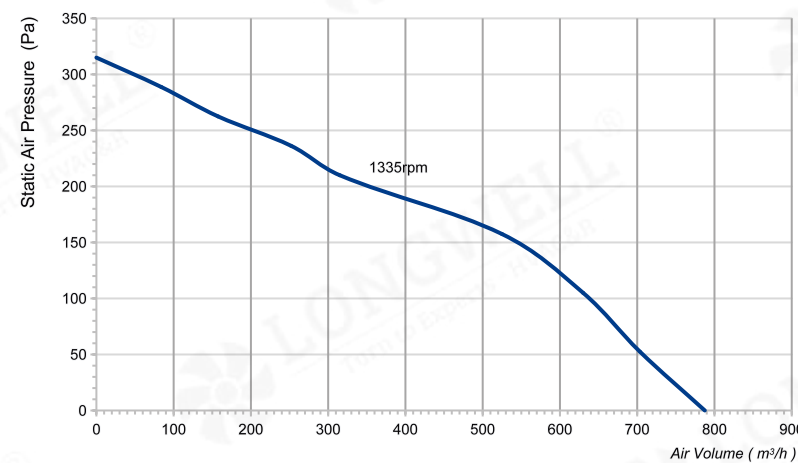


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E160-092SS-04	230	50	220	1	1800	525	618	61	4uF	①
			190	0.9	1300	386	577	54	4uF	②
			160	0.75	1000	288	541	47	4uF	③



LWFA-180 Serise



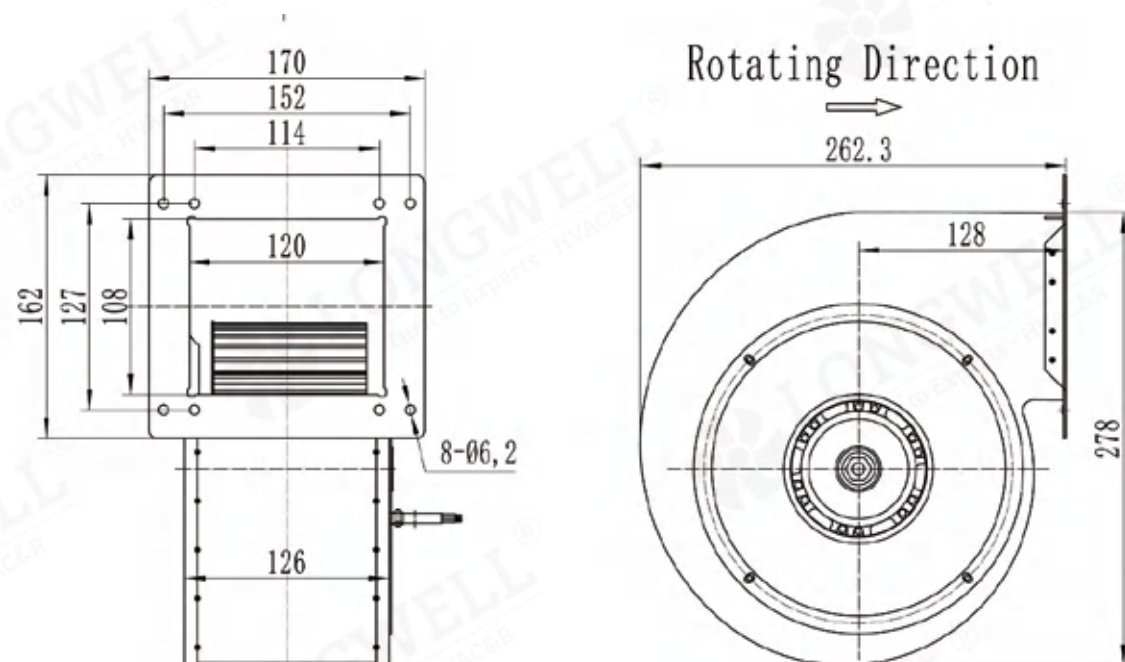
Product Characteristic

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

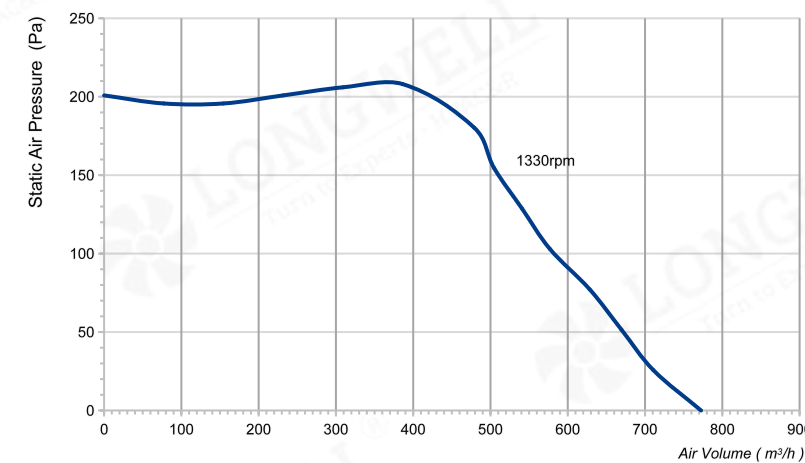


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E180-092SS-01	230	50	137	0.59	1335	788	315	63	5uF	/



LWFA-180 Serise



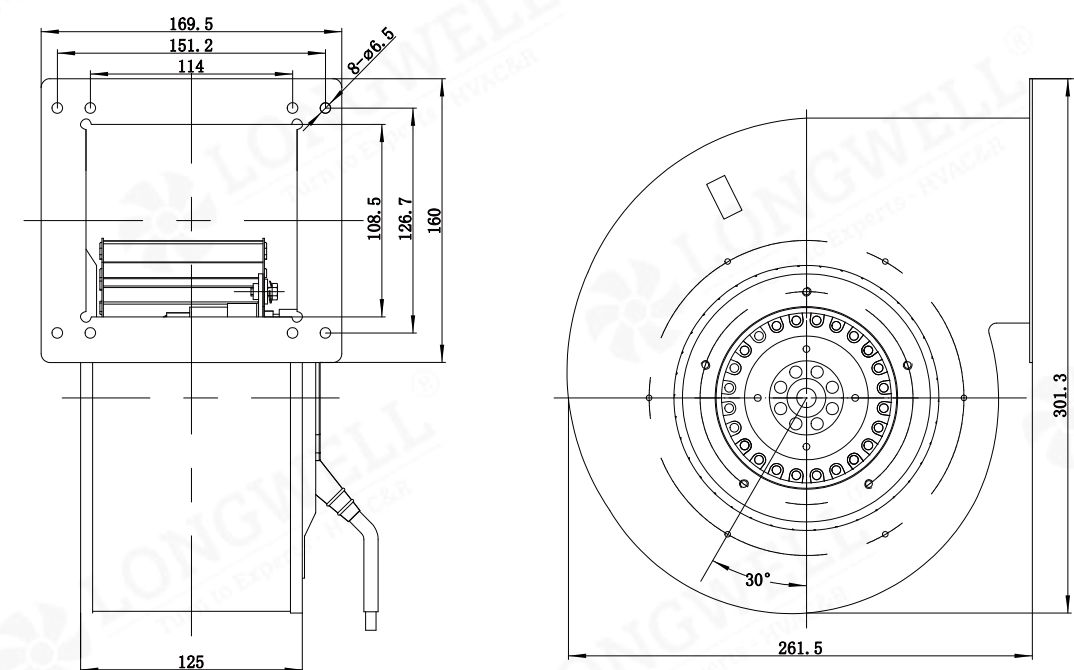
Product Characteristic

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

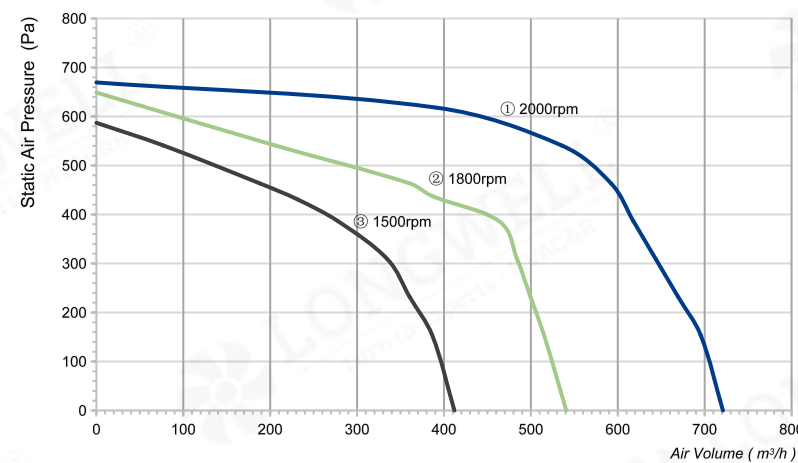


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E180-092SS-02	230	50	135	0.7	1330	773	201	63	3uF	/



LWFA-180 Serise



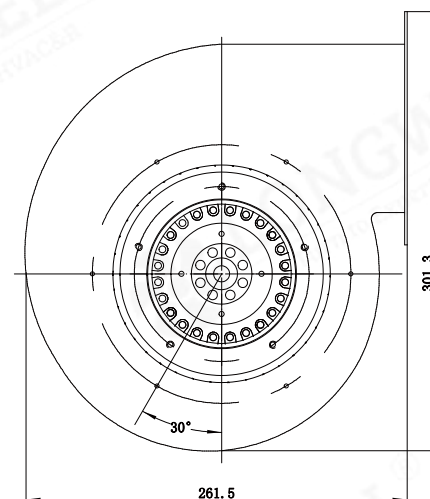
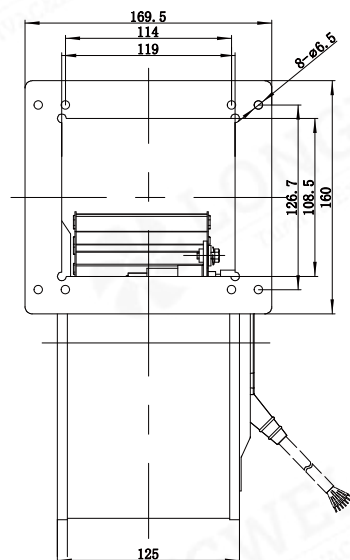
Product Characteristic

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

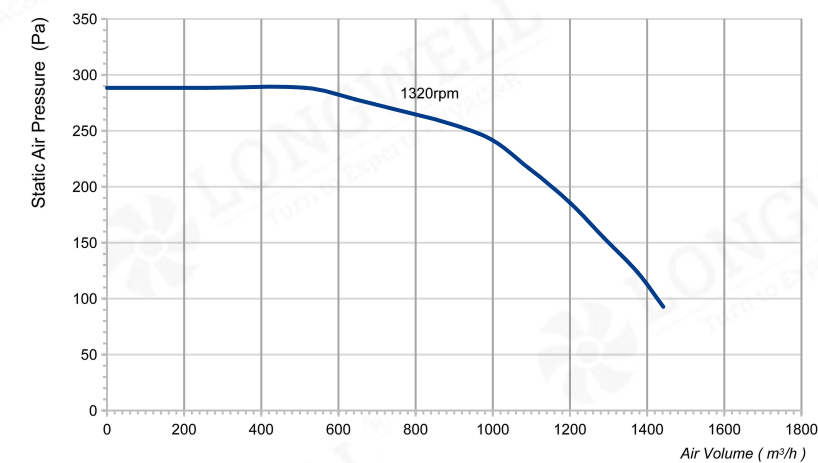


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E180-092SS-03	230	50	300	1.35	2000	742	670	73	7uF	①
			250	1.2	1800	541	649	69	7uF	②
			195	0.95	1500	412	587	65	7uF	③



LWFA-225 Serise



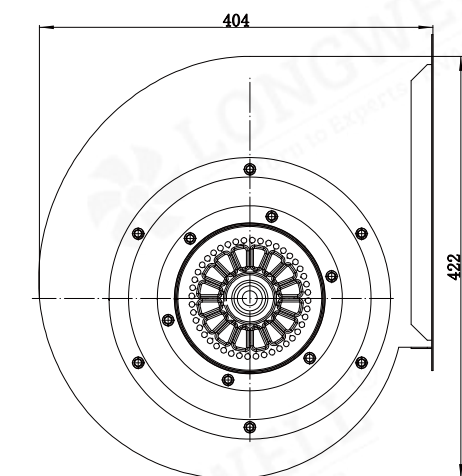
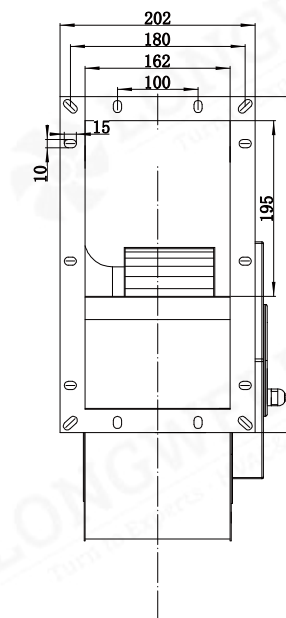
Product Characteristic

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

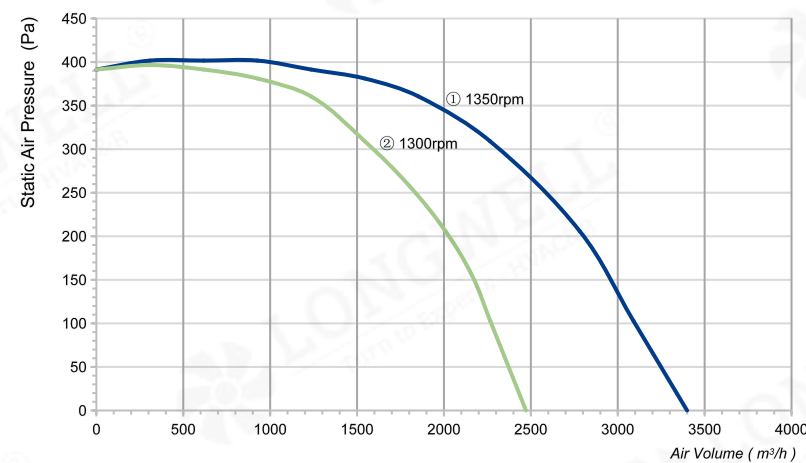


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E225-138SS-01	230	50	400	1.8	1320	1442	288	73	10uF	/
LWFA4D225-138ST-02	380	50	400	0.9	1390	1442	288	73	/	/



LWFA-250 Serise



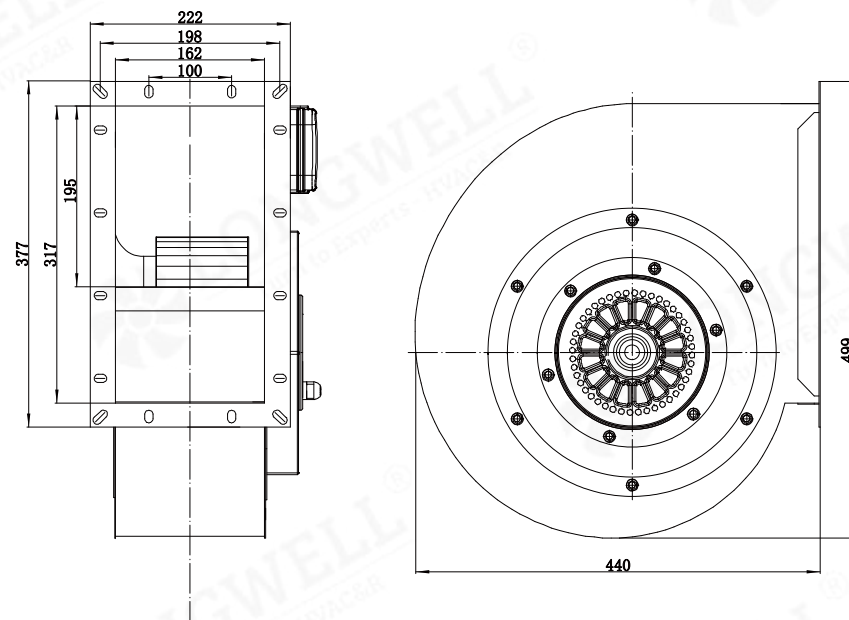
Product Characteristic

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

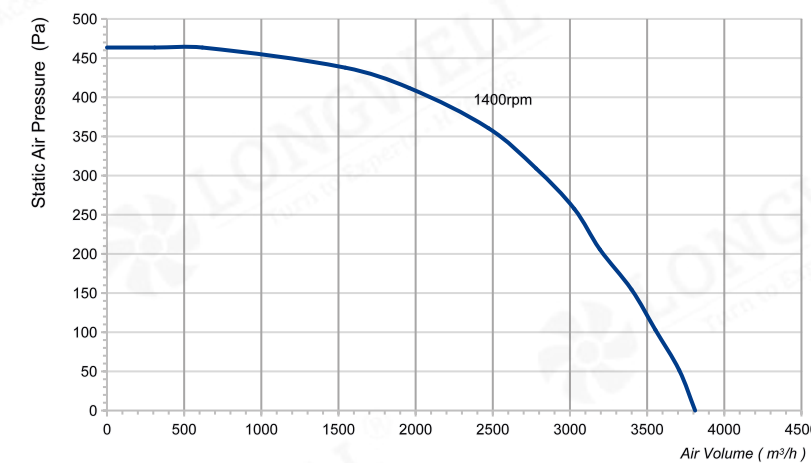


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4D250-138ST-01	380	50	850	1.6	1350	3399	391	80	/	①
LWFA4D250-138ST-02	380	50	630	1.2	1300	2472	391	74	/	②



LWFA-280 Serise



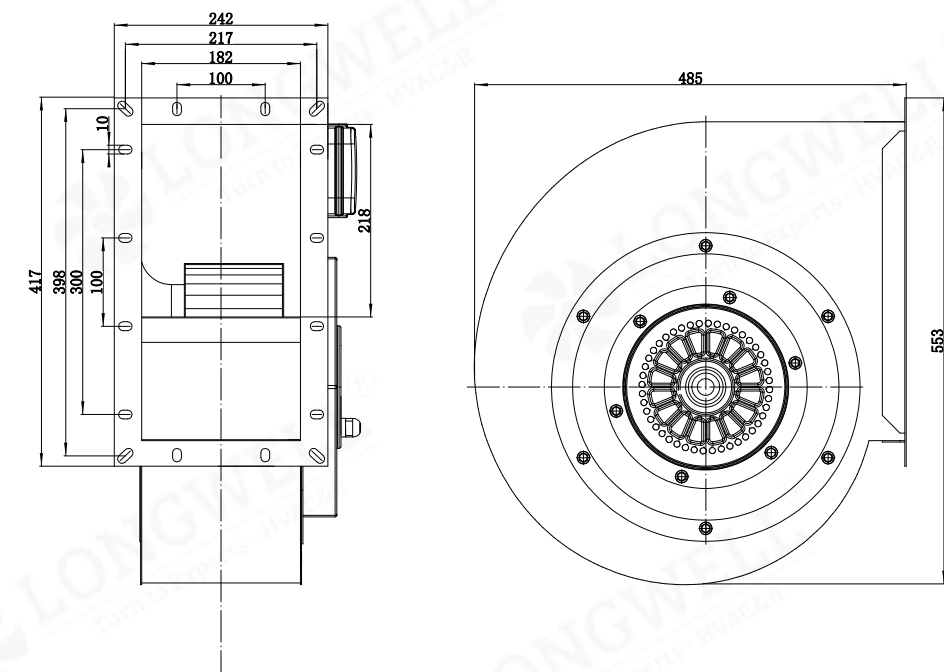
Product Characteristic

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

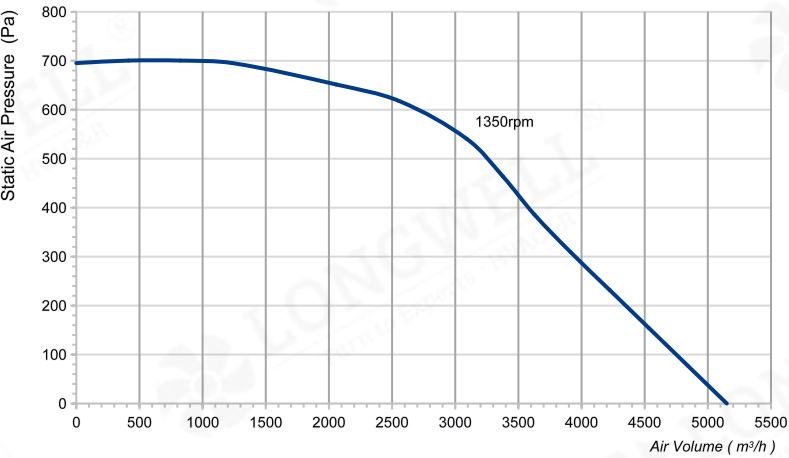


Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4D280-188ST-01	380	50	1400	2.5	1400	3811	464	82	/	/



LWFA-315 Serise



Product Characteristic

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



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4D315-188ST-01	380	50	2200	3.7	1350	5150	695	85	/	/

