Engineered for the Critical

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



LONGWELL®
Turn to Experts - HVAC&R

Ningbo Longwell Electric Technology Co., Ltd

Headquarter: NO.100, South of Xuxiang River, Yuyao, Zhejiang Province, China 315400
Tell: +86 574 6218 9863
Fax: +86 574 6218 9863
Phone: 0086 183 5827 4663
Web: www.longwellfans.com | www.longwell-group.com | www.longwell-media.com
Email: sales@zjlongwell.com

CE RoHS 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

—— AC Single Inlet Forward Centrifugal Blower

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

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







CATALOGUE

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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)

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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.

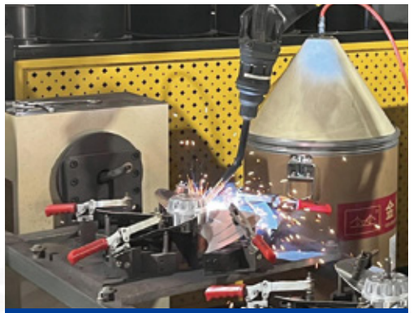
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials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

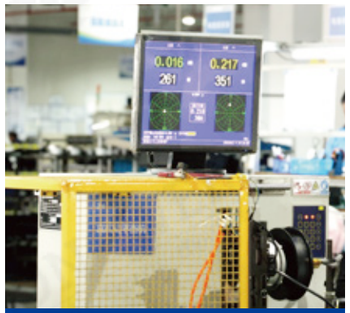
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

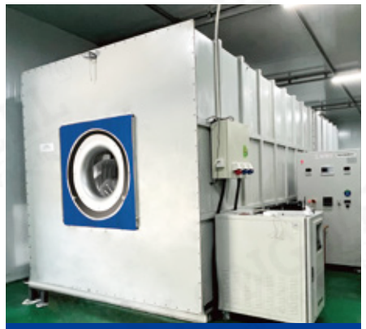


Balance Machine


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

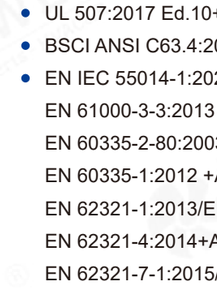
- ISO GB/T 19001-2016 idt ISO 9001:2015/GB/T 24001-2016 idt ISO 14001:2015/GB/T 45001-2020 idt ISO 45001:2018
- UL 507:2017 Ed.10+R:27/CSA C22.2#113:2018 Ed.11
- BSCI ANSI C63.4:2014/ANSI C63.4a-2017
- EN IEC 55014-1:2021/EN IEC 55014-2:2021/EN IEC 61000-3-2:2019 +A1:2021
  EN 61000-3-3:2013 +A1:2019 +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
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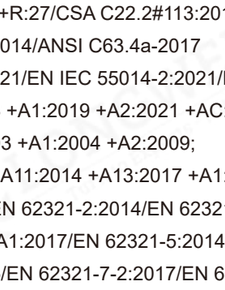




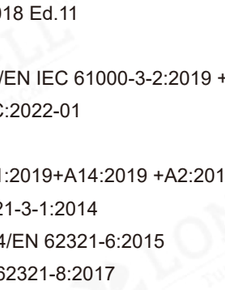
Enterprise Credit Evaluation Certificate - Hightest Level in China



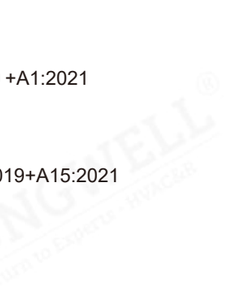
Own-Brand



Own-Brand

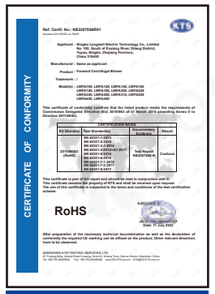


ETL



ETL

CE



RoHS



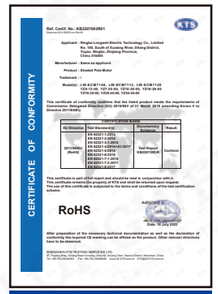
CE



CE



CE



RoHS



ETL



ETL



ETL



CE



CE



ISO 9001



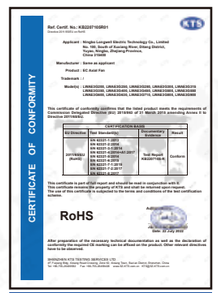
ISO 9001



RoHS



RoHS



RoHS



RoHS



RoHS



CE



CE



CE

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AC Single Inlet Forward Centrifugal Blower

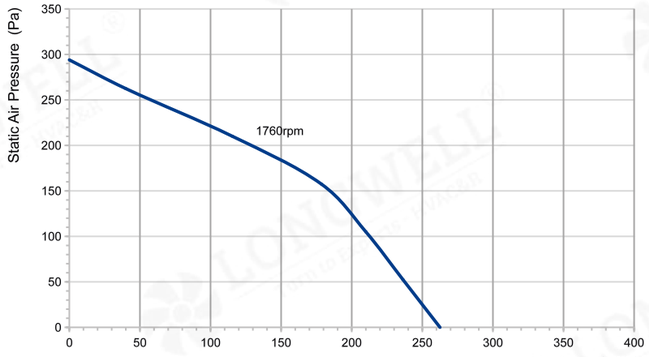
Type Code

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



LWFA-120 Serise



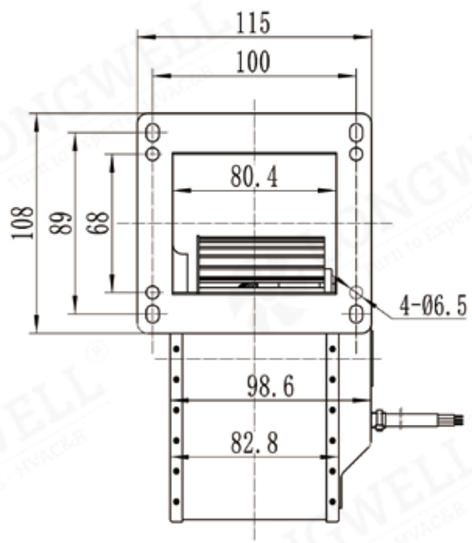


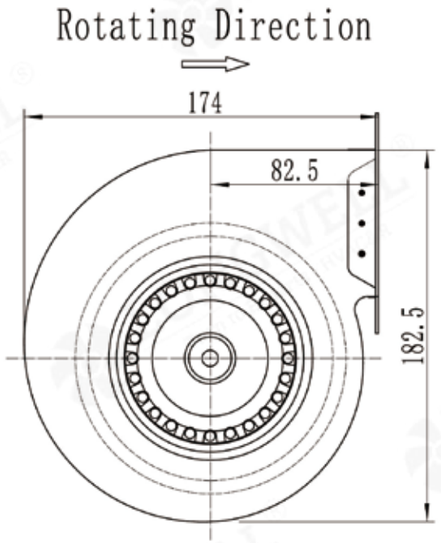
Product Characteristic

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

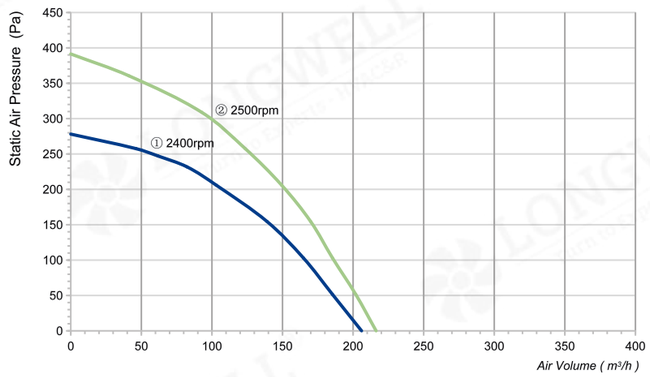
Technical Specifications

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



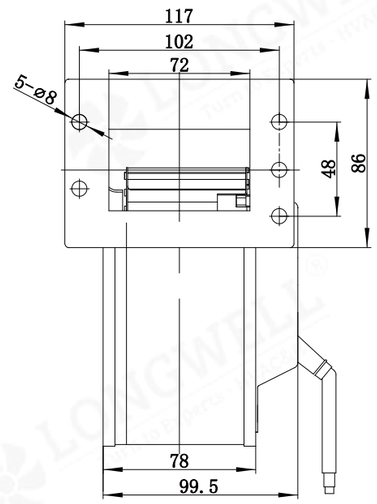


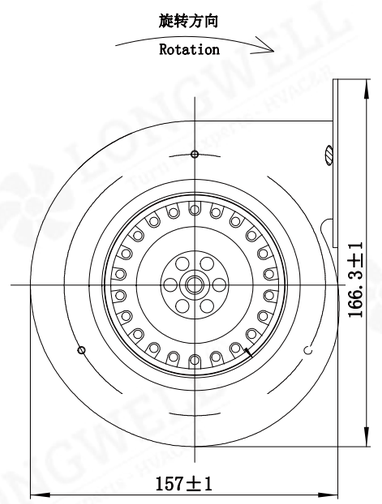
Product Characteristic

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

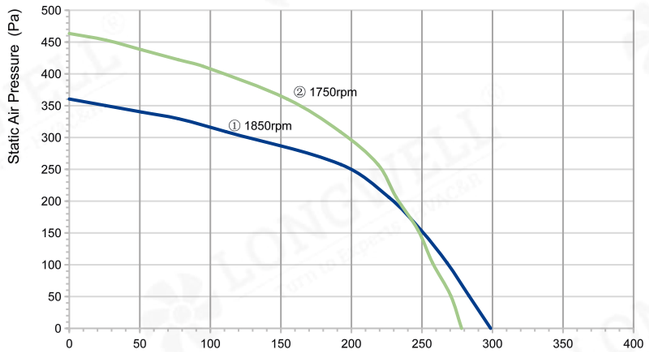
Technical Specifications

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





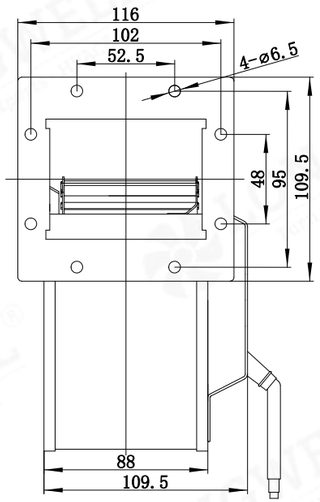
Product Characteristic

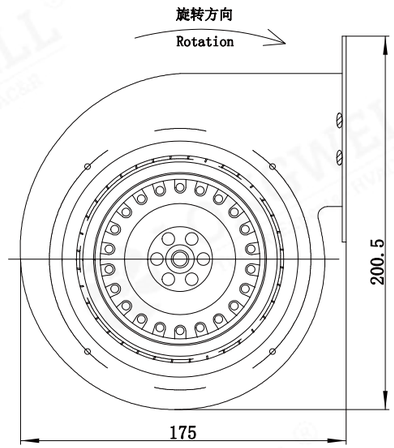
- Material: Galvanised sheet steel
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

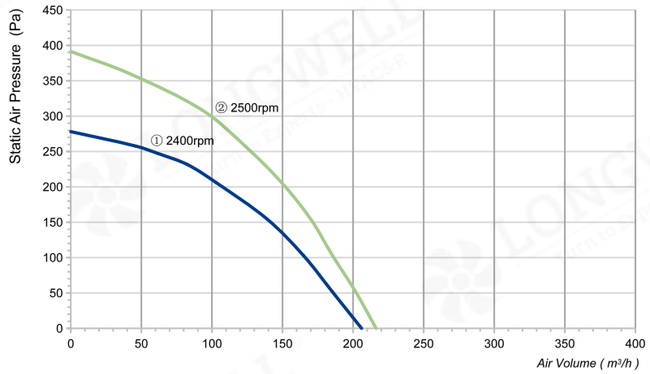
Technical Specifications

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





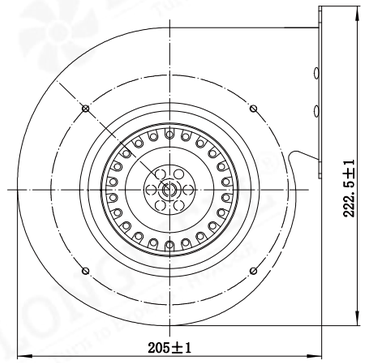
Product Characteristic

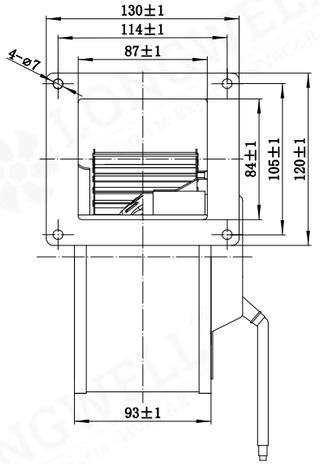
- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

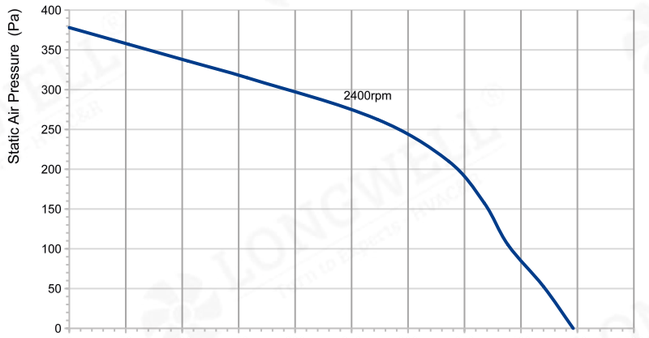
Technical Specifications

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



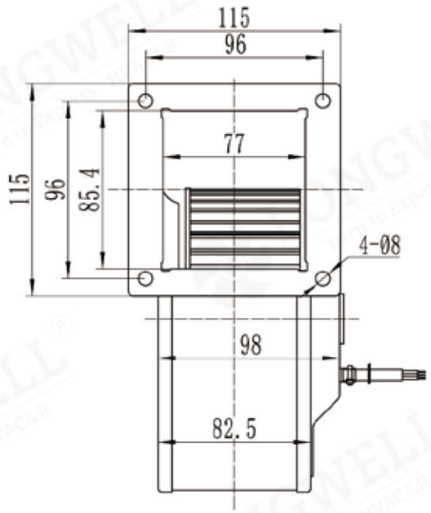


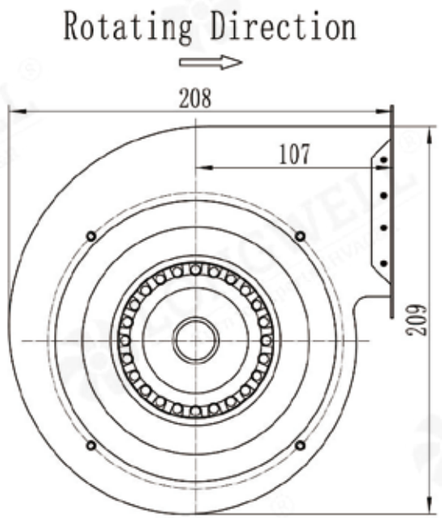
Product Characteristic

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

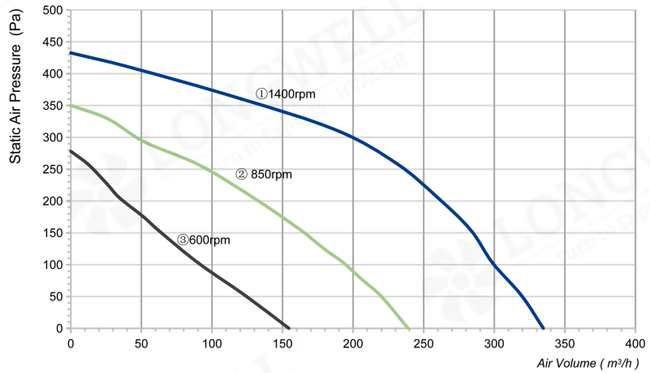
Technical Specifications

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



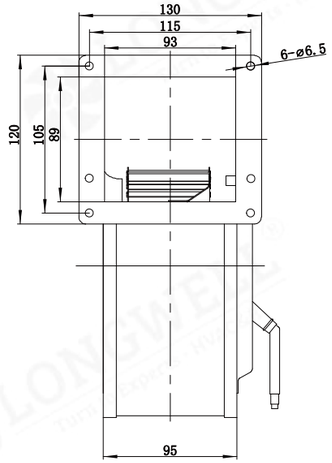


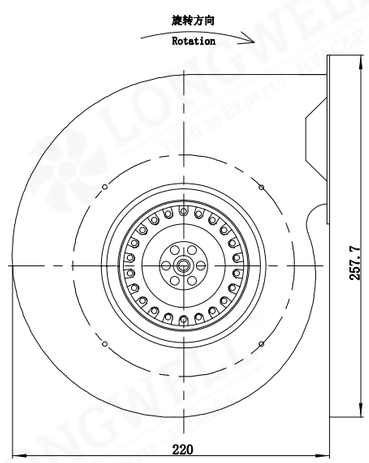
Product Characteristic

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

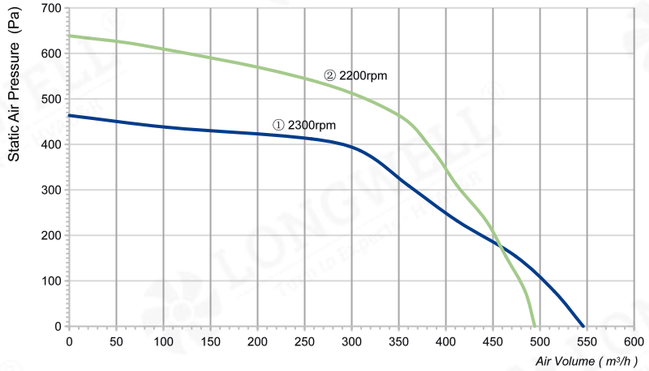
Technical Specifications

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





LWFA-150 Serise





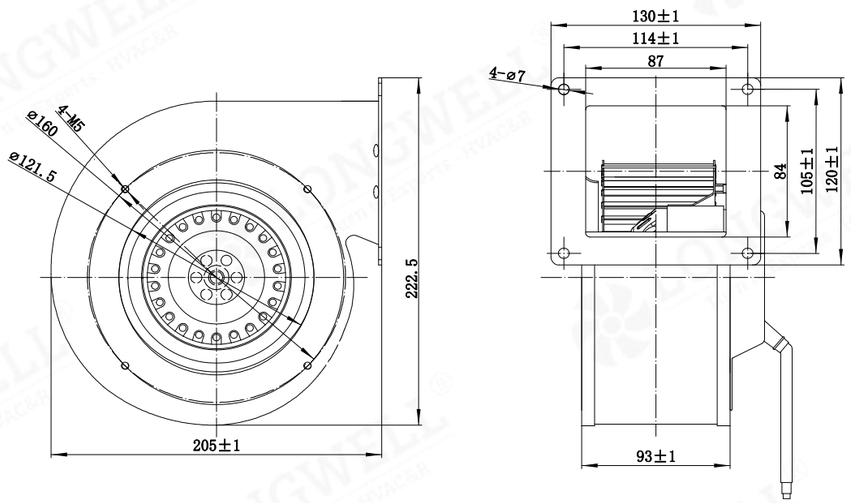
Product Characteristic

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

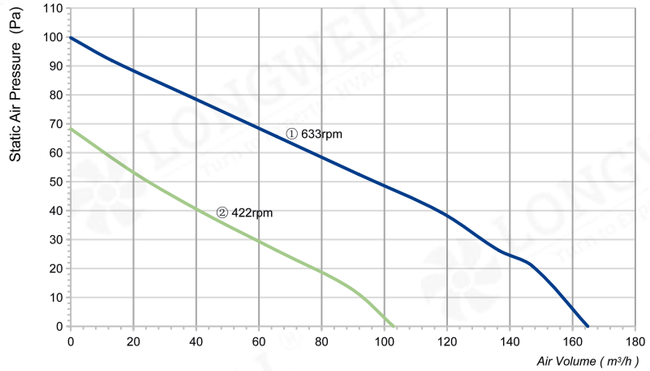
CE RoHS ETL BSCI ISO EAC UL LVD

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 Serise





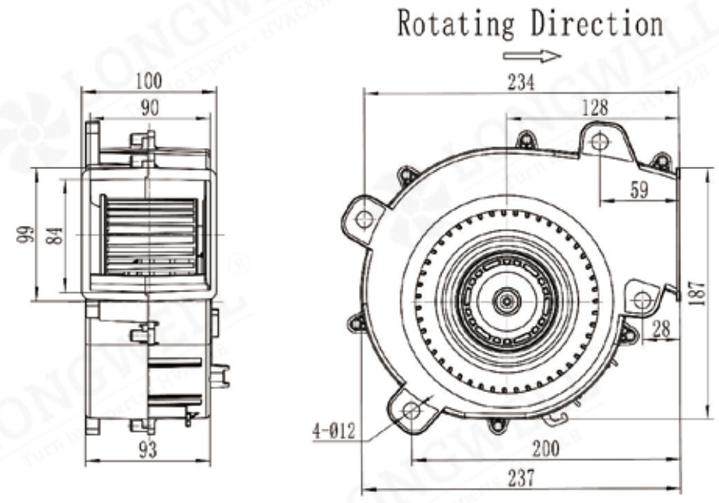
Product Characteristic

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

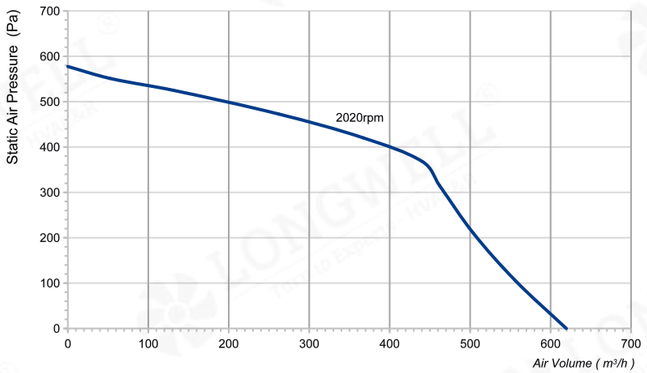
CE RoHS ETL BSCI ISO EAC UL LVD

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





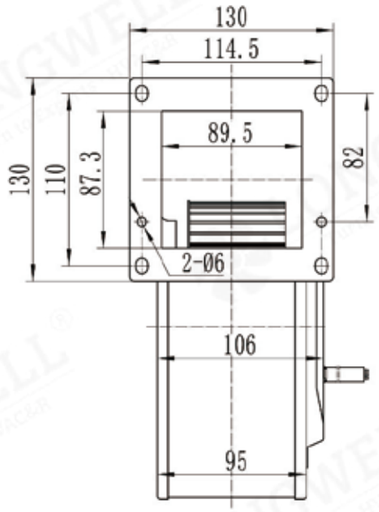
Product Characteristic

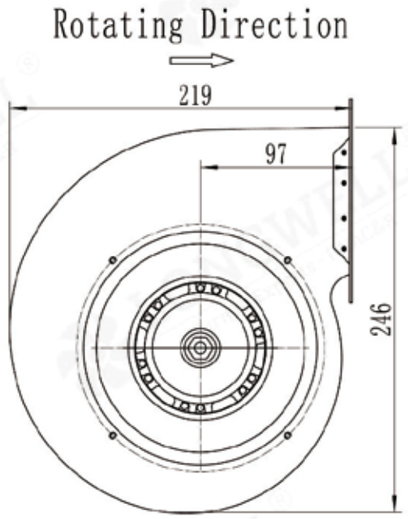
Material:	Galvanised sheet steel	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Insulation Class:	F
Mode of Operation:	S1	Operation Temperature:	-30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

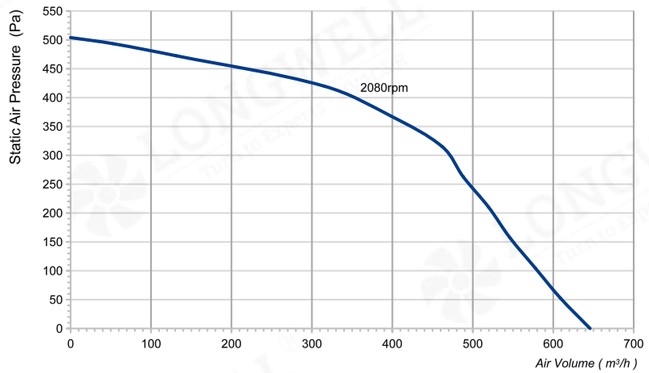
Technical Specifications

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





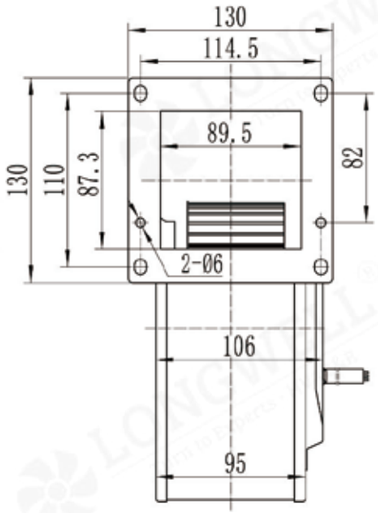
Product Characteristic

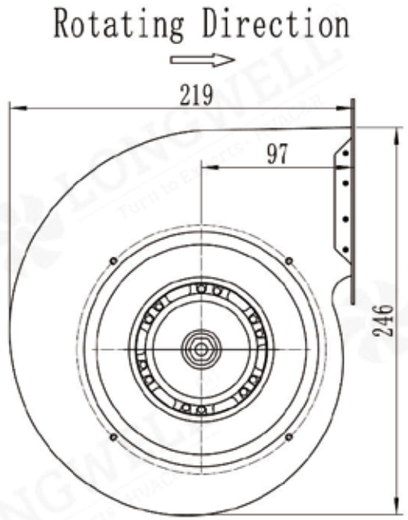
Material:	Galvanised sheet steel	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Insulation Class:	F
Mode of Operation:	S1	Operation Temperature:	-30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

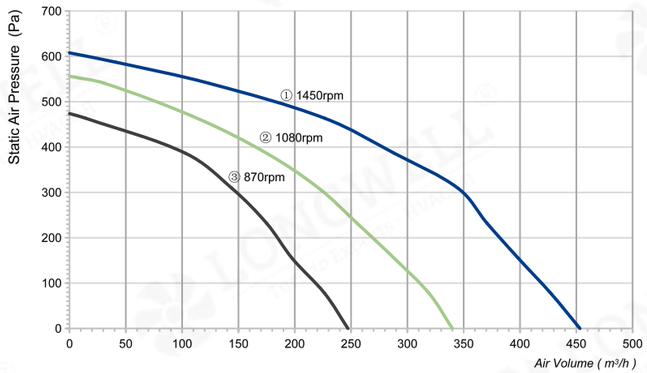
Technical Specifications

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



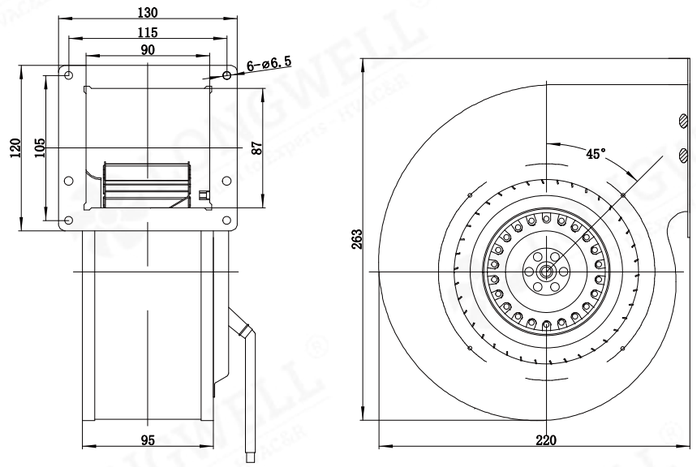


Product Characteristic

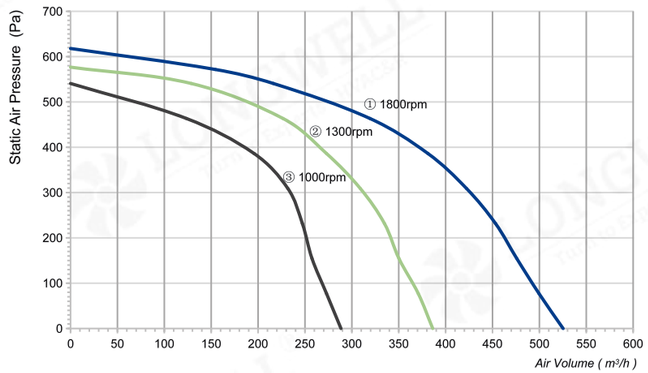
- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

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



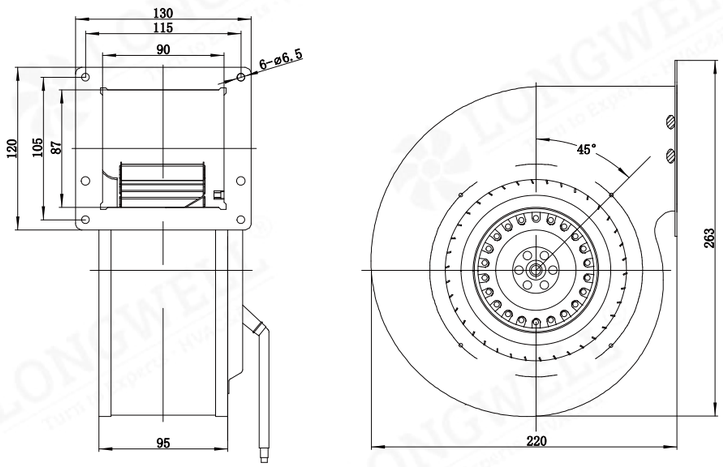


Product Characteristic

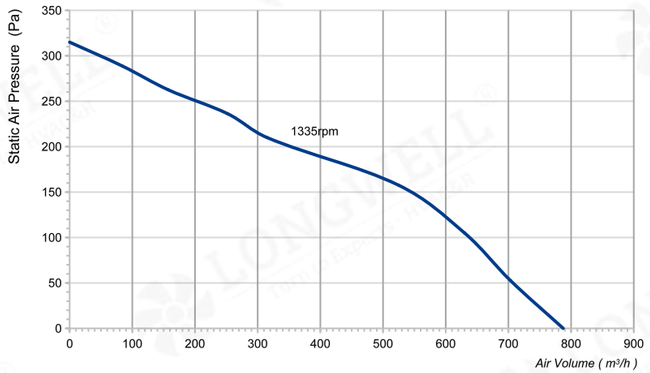
- Material: Plastic PA66
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

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



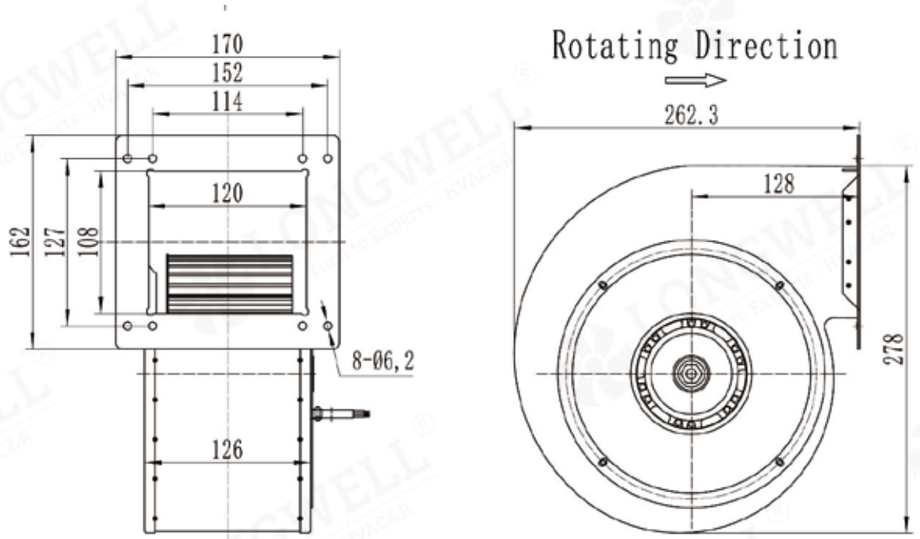


Product Characteristic

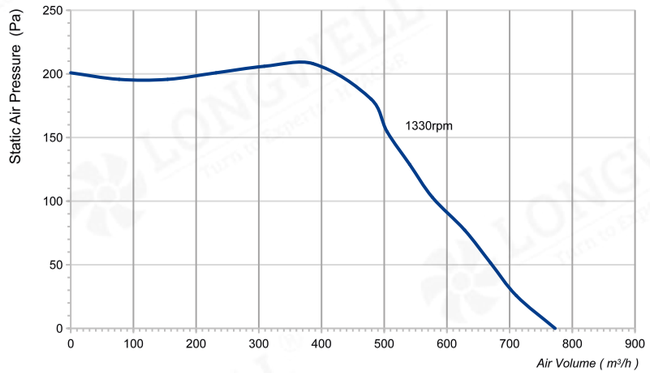
Material:	Galvanised sheet steel	Type of Protection:	IP54
Bearing:	Maintenance-free ball bearings	Insulation Class:	F
Mode of Operation:	S1	Operation Temperature:	-30℃～+60℃

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



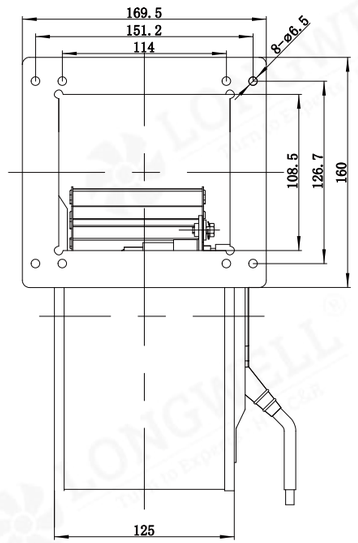


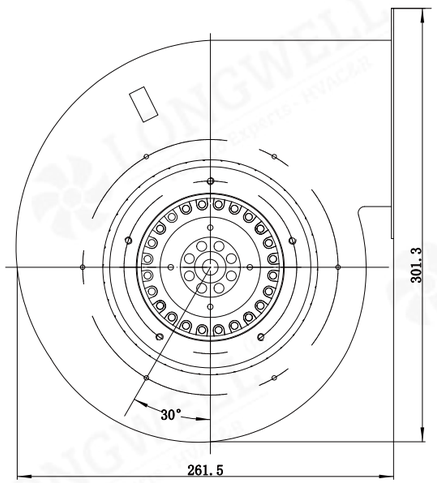
Product Characteristic

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

Technical Specifications

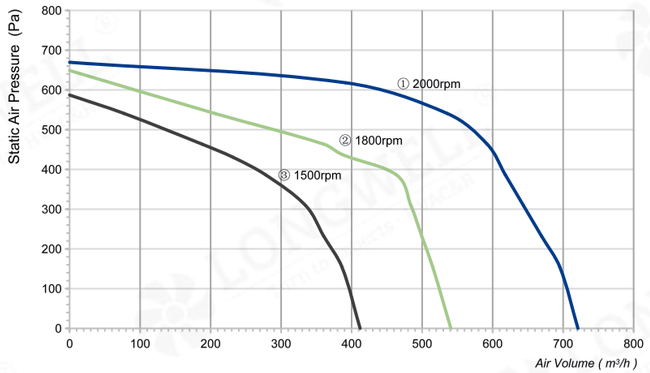
Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E180-092SS-02	230	50	135	0.7	1330	773	201	63	3uF	/





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LWFA-180 Serise



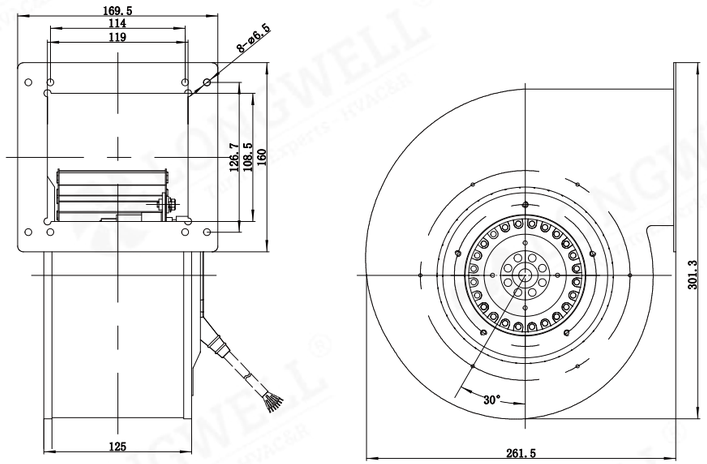


Product Characteristic

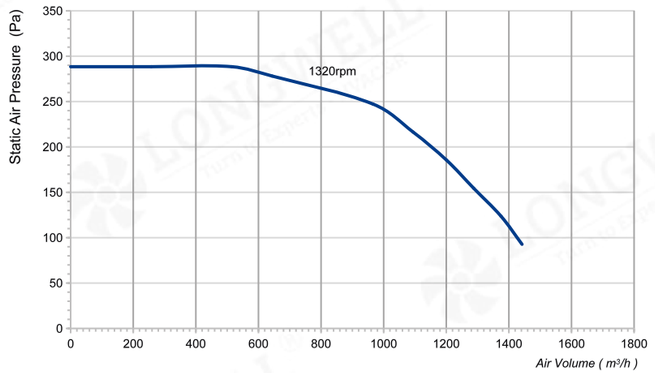
- Material: Galvanised sheet steel
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Insulation Class: F
- Operation Temperature: -30℃～+60℃

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



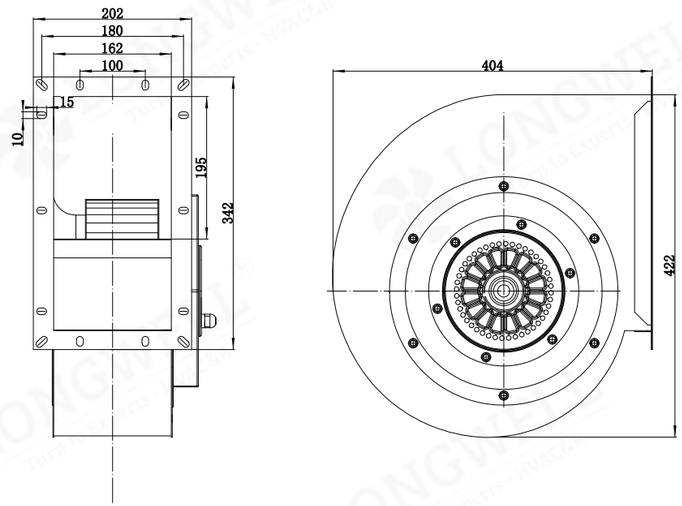


Product Characteristic

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

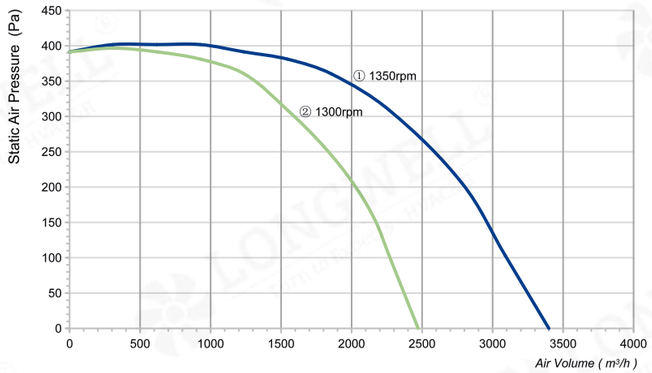
Technical Specifications

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	/	/



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LWFA-250 Serise





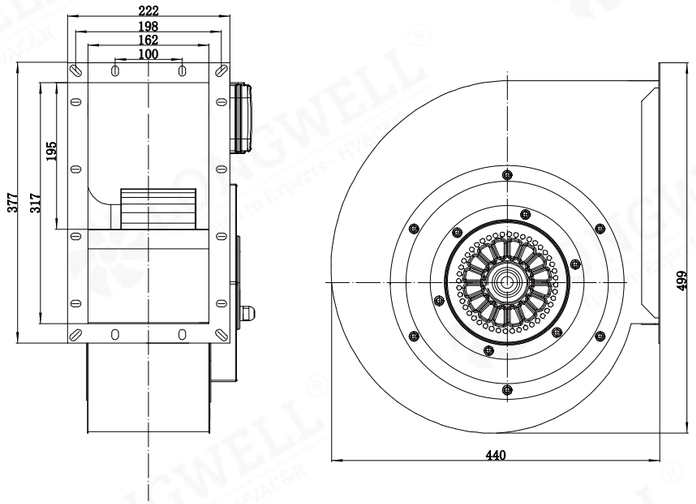
Product Characteristic

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

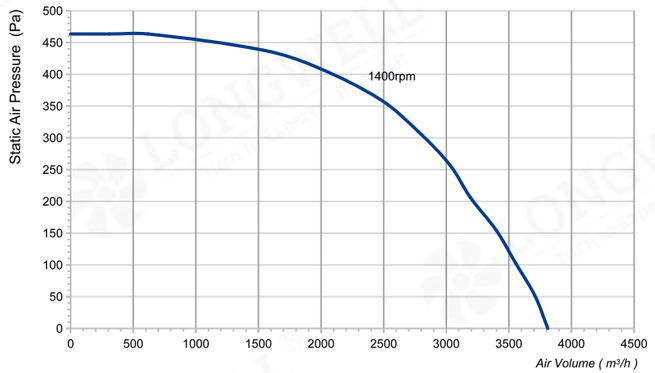
CE RoHS BSCI ISO EAC UL LVD

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





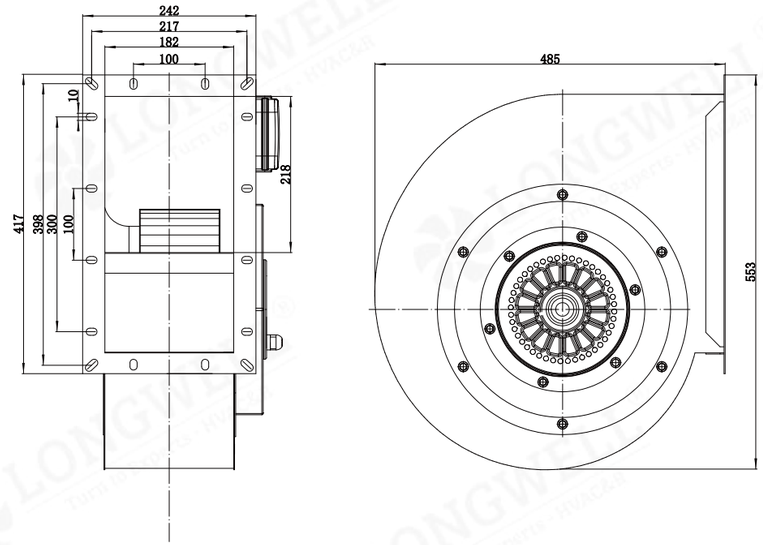
Product Characteristic

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

CE RoHS BSCI ISO EAC UL LVD

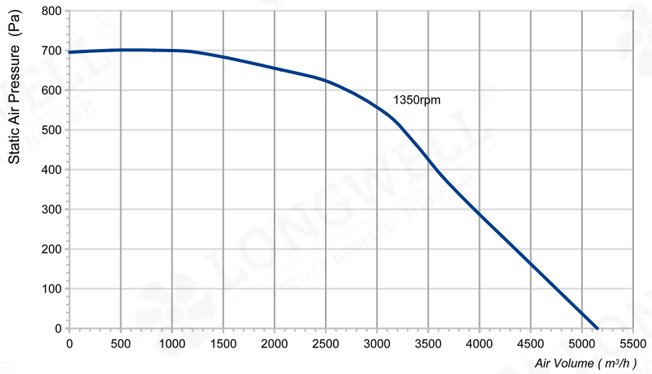
Technical Specifications

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	/	/



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LWFA-315 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℃～+60℃

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	/	/

