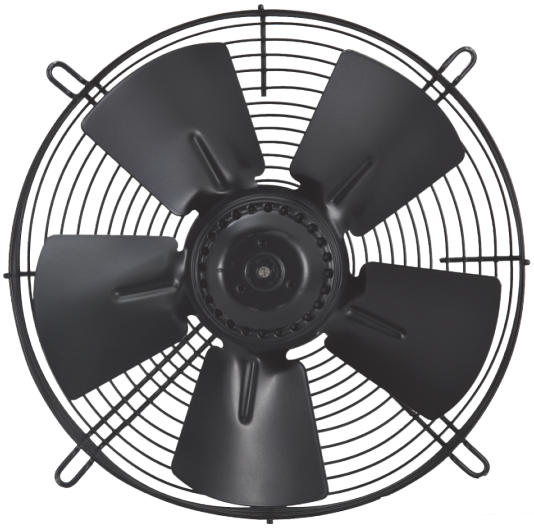
Product specification

Model:YWF(K)4E300-Z

Fan type:AC Axial fan



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Fan Introduction

This product consist of outer rotor(AC)motor, axial impeller, with features of compact structure, convenient installation, reliable operation, low noise, energy saving etc..

Scope of application

General purpose fan, can be widely used in purification of air conditioning systems, ventilation duct dust, environmental protection, refrigeration equipment and other fields.

Environmental requirements

- Operating ambient temperature range:-25℃~+65℃
- Working environment humidity range:＜90%
- Transportation and storage temperature range:-40℃~+80℃
- Transportation and storage environment humidity range:＜80%
- The storage place is well ventilated, corrosive gases not contained.

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Design, manufacturing, testing standards and certification

- ●JB-T10562 Technical specification for general purposes axial fans
- ●GB/T 14711 General safety requirements for Medium and small rotary motor
- ●GB755/IEC60034-1 rotary motor quota and performance
- ●The level of balance is in accordance with ISO 1940, G6.3
- ●Vibration testing and velocity is performed according to JB/T8689.
- ●This product is certified by China CCC and EU CE
- ●ISO 9001 quality system certification

Technical features

Mass	3.2 kg
Size	φ300 mm
Impeller material	cold rolled sheet steel
Direction	Suction(Seen from cable exit)
Protection class	IP54
Insulation class	F
Mounting	Shaft horizontal or rotor on bottom; rotor on top on request
Mode of operation	S1(Continuous operation)
Bearings	Maintenance-free ball bearings
Thermal protector	Can be built in or out of line according to requirements

Structures

Blades count	5
Impeller type	Integrated blade
Attachment	Hight Concave Guard Grille

Technical parameters

Supply	1P,220~240V
Frequency	50/60 Hz
Motor poles	4
Rated voltage	230 VAC
Power input	90/115 W

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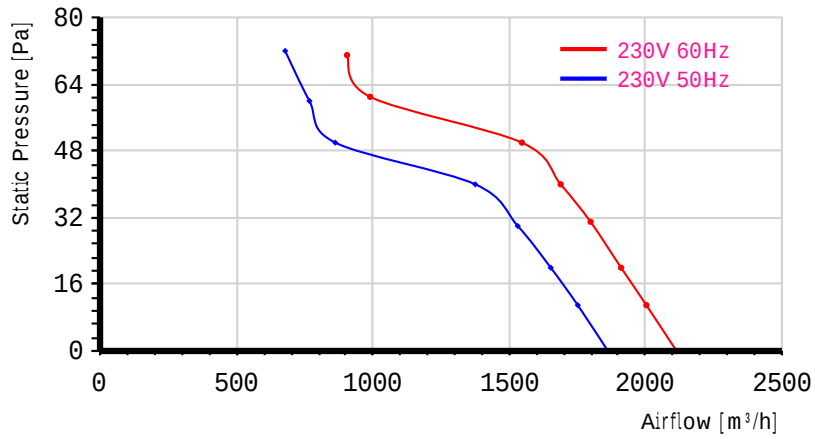
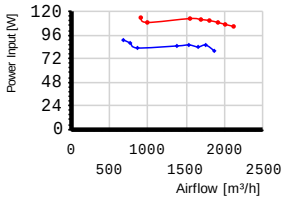
Rated current	0.38/0.48 A
Rated speed	1370/1500 r/min
Max airflow	1900/2100 m³/h (Static pressure=0Pa)
Acoustic	55/60 dB(A) measured at 1.0m from inlet side

Performance curve

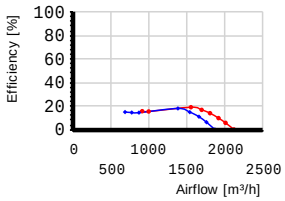
Airflow curve



Power input curve



Efficiency on static pressure



Performance test with reference to GB/T 1236-2017, equivalent to ISO 5801

TestID	2013032602	Capacitor	3 uF

Test environment					
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density
315mm	0.0779㎡	15℃	65%	102.2kPa	1.2kg/m³

Test data										
Voltage	Frequency	Speed	Power input	Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Differenc	Nozzle Size
V	Hz	r/min	W	A	m³/h	Pa	Pa	Pa	Pa	mm
230.7	60	1535	114	0.51	904	71	6	77	130	150+189*0
230.2	60	1565	109	0.49	989	61	8	69	156	150+189*0
230.1	60	1537	113	0.51	1546	50	19	69	378	150+189*0
230.1	60	1545	112	0.51	1688	40	22	62	450	150+189*0
230.3	60	1551	111	0.5	1798	31	25	56	511	150+189*0
230.3	60	1575	109	0.49	1910	20	28	48	576	150+189*0
230	60	1340	107	0.49	2003	11	31	42	633	150+189*0
229.9	60	1597	105	0.48	2114	0	35	35	705	150+189*0

Product specification

Model:YWF(K)4E300-Z

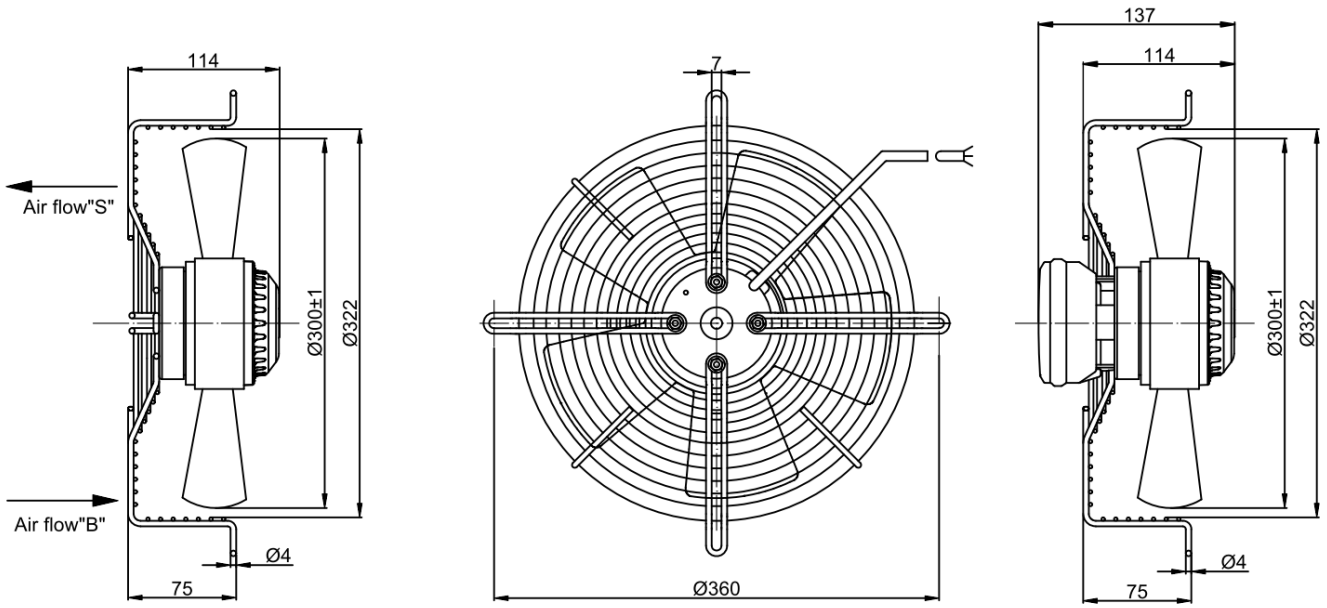
Fan type:AC Axial fan

TestID	2013032601	Capacitor	3 uF

Test environment					
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density
315mm	0.0779㎡	15℃	67%	102.2kPa	1.2kg/m³

Test data										
Voltage	Frequency	Speed	Power input	Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Differenc	Nozzle Size
V	Hz	r/min	W	A	m³/h	Pa	Pa	Pa	Pa	mm
230	50	1353	91	0.4	677	72	4	76	73	150+189*0
230	50	1365	88	0.38	766	60	5	65	94	150+189*0
230	50	1379	83	0.37	861	50	6	56	118	150+189*0
230	50	1317	85	0.38	1375	40	15	55	300	150+189*0
230	50	1374	86	0.38	1531	30	18	48	371	150+189*0
230	50	1379	84	0.37	1652	20	21	41	431	150+189*0
230	50	1381	86	0.37	1751	11	24	35	484	150+189*0
230	50	1390	80	0.36	1862	0	27	27	547	150+189*0

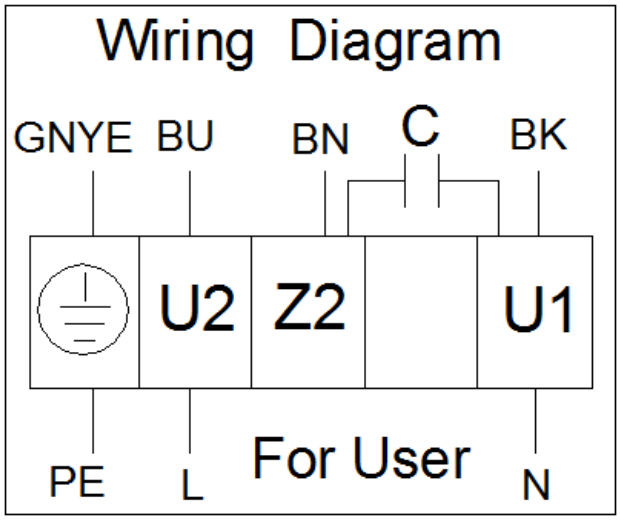
Dimentions(in mm)



Product specification

Model:YWF(K)4E300-Z	Fan type:AC Axial fan

Wiring diagram



Attentions

●Please check the appearance and the accessories if there is no damage before use, check the model is consistent with requirements;

●Keep reliable grounding according to the wiring diagram. to avoid motor burning and personal accident, please check wiring is loose or fall off;

●Before connect the power supply, check whether the motor is reliable, otherwise it will cause motor damage and personal injury;

●It is forbidden to pull the power cable, if the power cable is damaged, to be repaired before use, to avoid the accident of electric shock;

●Drop or impact motor is forbidden;

●Washing motor with water is prohibited, it will reduce the motor insulation level, even lead to electric leakage even endanger personal safety;

●Special customized product is designed for specified requirements, please consult with our engineers before change useage;

●The temperature of the motor shell may be higher in a short time after the fan stopped, Please avoid direct contact with the motor surface. If necessary, please take protective measures to prevent scald;

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●Do not contact the impeller when the fan running, you need to wait for all the parts stopped before operate it;

●When the fan is installed, check and ensure thers is no debris in the shell and other shell body, keep the fan clean;

●After the fan installation complete, before connected to supply, please confirm that there is no collision or interference or stuck.

Product life and maintenance, warranty

●The design life of this product is 40,000 hours. This data is derived from the expected life of L10 for general ball bearings at 40°C is 40,000 hours. The actual service life of the product is affected by the use environment (temperature, humidity, installation, bearing load, etc.).

●According to the use of the environment, please make a clean maintenance every 3~6 months.

●From the date of purchase (order delivery date), The warranty period is one year. During this period, for failure due to the quality of the product itself, we provide free replacement or repairing. If the damage caused by improper disassembly, transportation, artificial damage or natural disasters, etc., is not in the scope of this warranty;