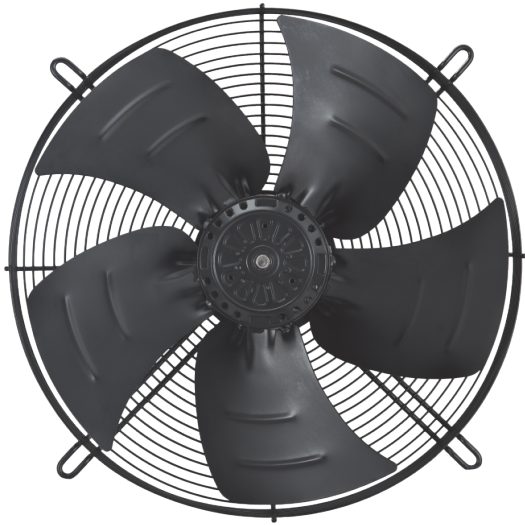


Model:YWF(K)4E420-Z02-S5G

Fan type:AC Axial fan



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仅供参考

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:-30℃~+60℃
- 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.

Model:YWF(K)4E420-Z02-S5G

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Design, manufacturing, testing standards and certification

- JB/T 10562 Technical specification for general purposes axial fans
- GB/T 14711 Safety requirements of small and medium size rotating electrical machines
- GB/T 755/IEC60034-1 Rotating electrical machines - Part 1: Rating and performance
- GB 4706.32-2012/IEC 60335-2-40:2005 Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
- Balance quality grade for rotor is G6.3, in accordance with ISO 1940-1,
- Vibration testing and velocity is performed according to JB/T 8689.
- This product is certified by China CCC and EU CE
- ISO 9001 quality system certification

Technical features

Mass	8 kg
Size	φ420 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	Special-purpose welding blade
Attachment	Hight Flat Guard Grille

Technical parameters

Supply	1P,220~240V
Frequency	50 Hz
Motor poles	4

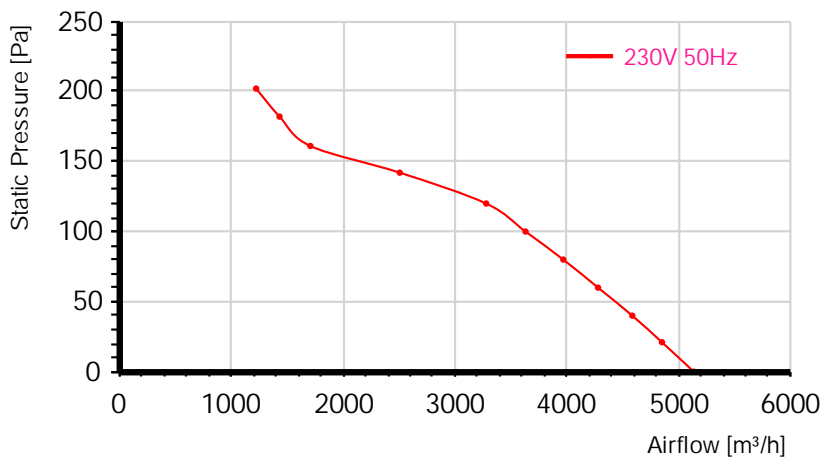
Model:YWF(K)4E420-Z02-S5G

Fan type:AC Axial fan

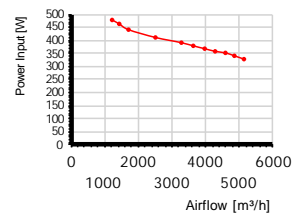
Rated voltage	230 VAC
Power input	450 W
Rated current	2.0 A
Rated speed	1370 r/min
Max airflow	5500 m³/h (Static pressure=0Pa)
Acoustic	70 dB(A) measured at 1.0m from inlet side

Performance curve

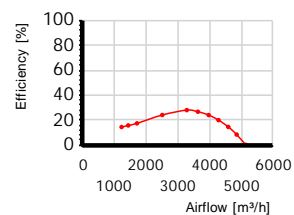
Airflow curve



Power input curve



Efficiency on static pressure



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

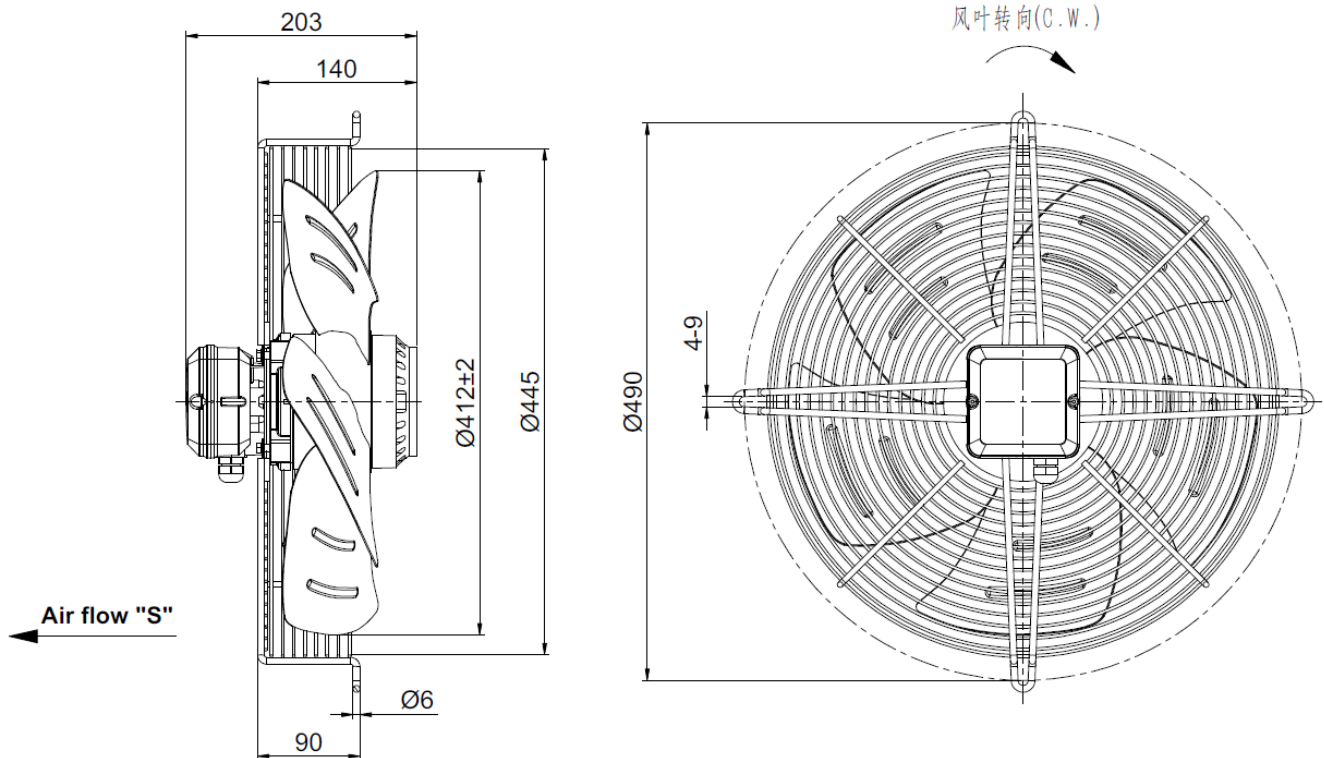
TestID			2017010215			Capacitor			16 uF	
Test environment										
Outlet size		Outlet area		Temperature		Humidity		Baropressure		Density
430mm		0.1452m²		14 °C		78%		102.1kPa		1.2kg/m³
Test data										
Voltage	Frequency	Speed	Power input	Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Difference	Nozzle Size
V	Hz	r/min	W	A	m³/h	Pa	Pa	Pa	Pa	mm
230.7	50	1328	478	2.1	1220	202	3	205	234	150+189*0
230.5	50	1339	463	2.04	1430	182	5	186	322	150+189*0
231.1	50	1353	441	1.94	1706	161	6	167	456	150+189*0
231.8	50	1371	411	1.82	2506	142	14	156	390	+189*1
230.7	50	1378	391	1.74	3279	120	24	144	253	150+189*1
230.2	50	1386	379	1.69	3631	100	30	130	309	150+189*1
230.8	50	1399	368	1.64	3969	80	36	115	369	150+189*1
230.1	50	1394	358	1.6	4279	60	41	101	428	150+189*1

Model:YWF(K)4E420-Z02-S5G

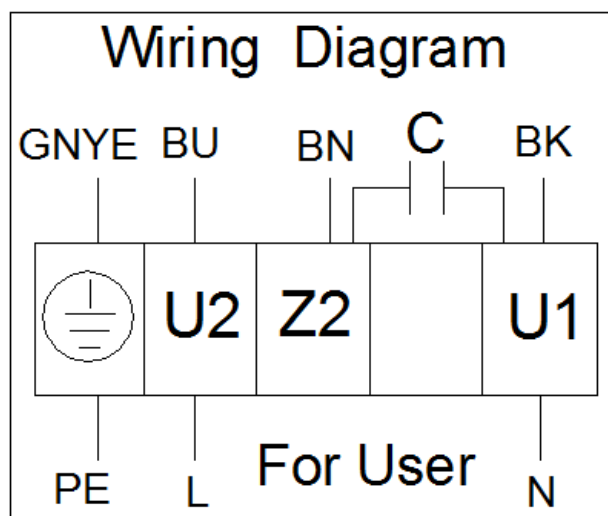
Fan type:AC Axial fan

230.9	50	1406	352	1.57	4586	40	47	87	492	150+189*1
229.9	50	1412	341	1.53	4852	21	53	74	212	150+189*2
230	50	1415	328	1.48	5137	0	59	60	238	150+189*2

Dimensions(in mm)



Wiring diagram



Model:YWF(K)4E420-Z02-S5G

Fan type:AC Axial fan

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;
- ★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.

Service life, maintenance, warranty and Disclaimer

- 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℃ is 40,000 hours. The actual service life of the product is affected by the use environment (temperature, humidity, installation, bearing load, etc.).

Model:YWF(K)4E420-Z02-S5G

Fan type:AC Axial fan

- 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;
- All AC fans should be used according to the specified voltage range and power frequency. It is not recommended to use frequency converters and voltage regulators as speed control devices. If necessary, you need to make technical confirmation with our sales before placing an order. The use of unconfirmed speed control devices leads to the reduction of product life, abnormal noise, operating failures, etc., which are not covered by this warranty;