

Model:YWF(K)6D910-ZF04-S7I

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℃~+50℃
- 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
- GB/T 755/IEC60034-1 rotary motor quota 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
- 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	50.5 kg
Size	φ910 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	7
Impeller type	Conventional welding blade
Attachment	With square plate; Reversed Guard Grille

Technical parameters

Supply	3P,380~440V
Frequency	50 Hz
Motor poles	6

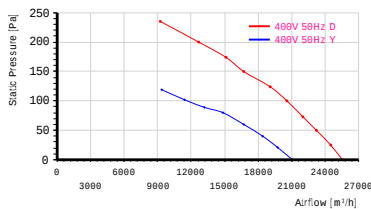
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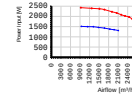
Rated voltage	400 VAC
Power input	2450/1550 W
Rated current	4.7/2.6 A
Rated speed	870/670 r/min
Max airflow	25500/21000 m³/h (Static pressure=0Pa)
Acoustic	82/75 dB(A) measured at 1.0m from inlet side

Performance curve

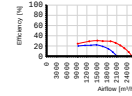
Airflow curve



Power input curve



Efficiency on static pressure



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

TestID			2011010802			Connection			D	
Test environment										
Outlet size		Outlet area		Temperature		Humidity		Baropressure		Density
915mm		0.6576m²		8℃		62%		100.8kPa		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
401.4	50	875	2426	4.61	9228	235	10	244	93	150+189*7
401	50	880	2392	4.58	12667	200	18	218	175	150+189*7
401.9	50	882	2371	4.54	15109	174	25	199	194	150+189*8
401.7	50	885	2331	4.5	16701	150	31	181	237	150+189*8
401.7	50	891	2225	4.38	19071	124	40	165	309	150+189*8
401.3	50	893	2167	4.32	20573	100	47	147	359	150+189*8
399.9	50	899	2080	4.21	21999	73	54	127	410	150+189*8
402.2	50	901	2022	4.14	23209	50	60	110	456	150+189*8

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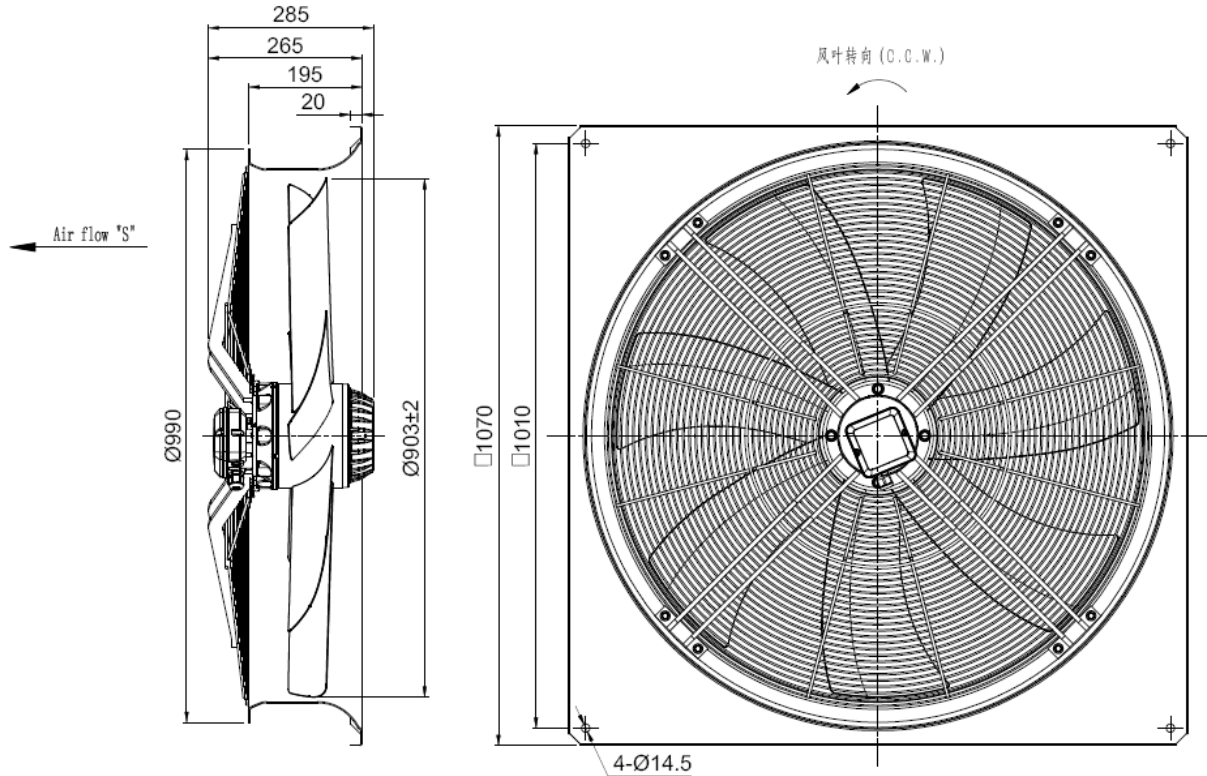
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401.5	50	907	1970	4.08	24496	25	67	92	508	150+189*8
401.1	50	912	1867	3.96	25535	0	72	73	552	150+189*8

TestID		2011010803		Connection		Y	
Test environment							
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density		
915mm	0.6576m²	8℃	63%	100.8kPa	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	m ³ /h	Pa	Pa	Pa	Pa	mm
401.1	50	668	1516	2.6	9362	119	10	129	175	150+189*5
400.8	50	671	1501	2.57	11399	102	14	116	259	150+189*5
402.3	50	675	1500	2.56	13181	89	19	108	189	150+189*7
402.7	50	687	1464	2.49	14842	80	24	104	239	150+189*7
401.9	50	704	1431	2.44	16710	60	31	91	303	150+189*7
401	50	715	1380	2.36	18406	40	38	77	367	150+189*7
400.4	50	740	1354	2.32	19738	21	43	64	422	150+189*7
400.3	50	755	1313	2.24	21071	0	49	50	481	150+189*7

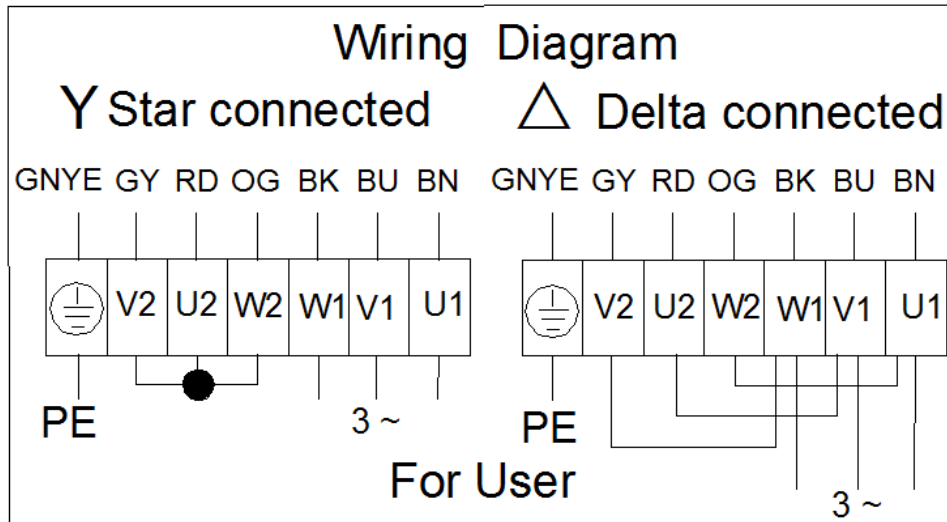
Dimensions(in mm)



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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;
- ★For AC fans powered by three-phase supply, please confirm the power connection phase sequence before use to ensure that the motor rotation direction is consistent with the marked rotation direction (the motor rotation direction can be changed by reversing any two-phase phase sequence of the power supply);
- ★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;

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- ★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 there 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℃ 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;