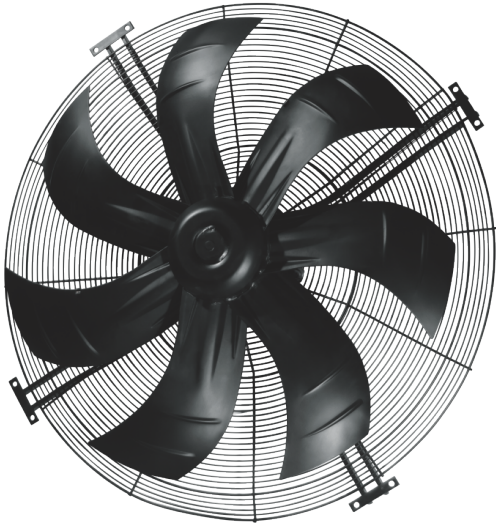


Model:ECF(K)8D910-PZB7BC0

Fan type:EC Axial fan



Manufactory:Zhejiang MingZhen Electric & Electronic Co., Ltd.

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Fan Introduction

This product consist of outer rotor(EC)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.

Model:ECF(K)8D910-PZB7BC0

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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	40 kg
Size	φ910 mm
Impeller material	cold rolled sheet steel
Direction	Blow(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
Controller	Controller integrated with motor, 0~10V or PWM control

Structures

Blades count	7
Impeller type	Conventional welding blade
Attachment	Hight Concave Guard Grille

Technical parameters

Supply	3P,380~480V
Frequency	50/60 Hz
Rated voltage	400 VAC

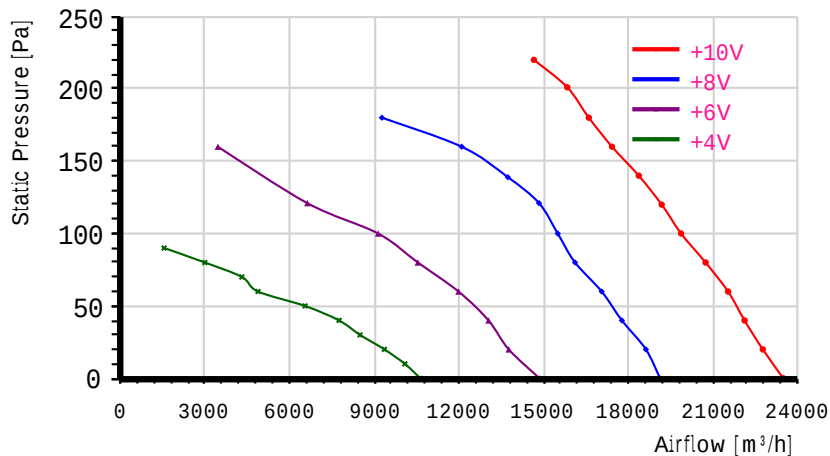
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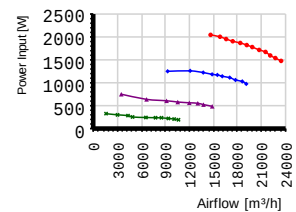
Power input	2000 W
Rated current	3.1 A
Rated speed	1000 r/min
Max airflow	24000 m³/h (Static pressure=0Pa)
Acoustic	83 dB(A) measured at 1.0m from inlet side
ErP level	2015

Performance curve

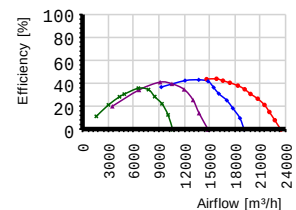
Airflow curve



Power input curve



Efficiency on static pressure



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

TestID			2015071607			Control voltage			10 VDC		
Test environment											
Outlet size		Outlet area		Temperature		Humidity		Baropressure		Density	
920mm		0.6648m²		31℃		76%		97.6kPa		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	
401.5	50	1000	2045	3.75	14655	220	21	241	208	150+189*7	
401	50	1000	2003	3.64	15836	201	24	226	243	150+189*7	
400.2	50	1000	1955	3.56	16600	180	27	206	209	150+189*8	
400.5	50	1000	1906	3.44	17424	160	29	189	230	150+189*8	
399.9	50	1000	1870	3.36	18372	140	33	172	256	150+189*8	
399.8	50	1000	1823	3.24	19182	120	36	156	278	150+189*8	
400.5	50	1000	1781	3.16	19872	100	38	138	298	150+189*8	
400.9	50	1000	1719	3.01	20737	80	42	122	325	150+189*8	

Model:ECF(K)8D910-PZB7BC0

Fan type:EC Axial fan

400.5	50	1000	1674	2.94	21535	60	45	104	350	150+189*8
400.7	50	1000	1599	2.79	22118	40	47	88	369	150+189*8
400.5	50	1000	1542	2.67	22765	20	50	70	391	150+189*8
399.7	50	1000	1481	2.57	23492	0	53	54	417	150+189*8

TestID		2017032572		Control voltage		8 VDC	
Test environment							
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density		
920mm	0.6648m²	16℃	70%	101.8kPa	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
400.1	50	860	1254	2.05	9271	180	9	190	248	150+189*4
399.8	50	860	1264	2.08	12099	160	16	176	286	150+189*5
400.8	50	860	1227	2.06	13733	139	20	159	265	150+189*6
400.6	50	860	1189	2	14838	121	24	144	234	150+189*7
402	50	860	1176	1.97	15500	100	25	125	253	150+189*7
400.9	50	860	1147	1.92	16112	80	28	108	216	150+189*8
399.8	50	860	1117	1.89	17059	60	31	92	242	150+189*8
400.1	50	860	1066	1.8	17775	40	34	74	262	150+189*8
400.7	50	860	1036	1.76	18622	20	37	57	288	150+189*8
399.7	50	860	981	1.69	19123	0	39	40	303	150+189*8

TestID		2017032573		Control voltage		6 VDC	
Test environment							
Outlet size	Outlet area	Temperature	Humidity	Baropressure	Density		
920mm	0.6648m²	16℃	69%	101.8kPa	1.2kg/m³		

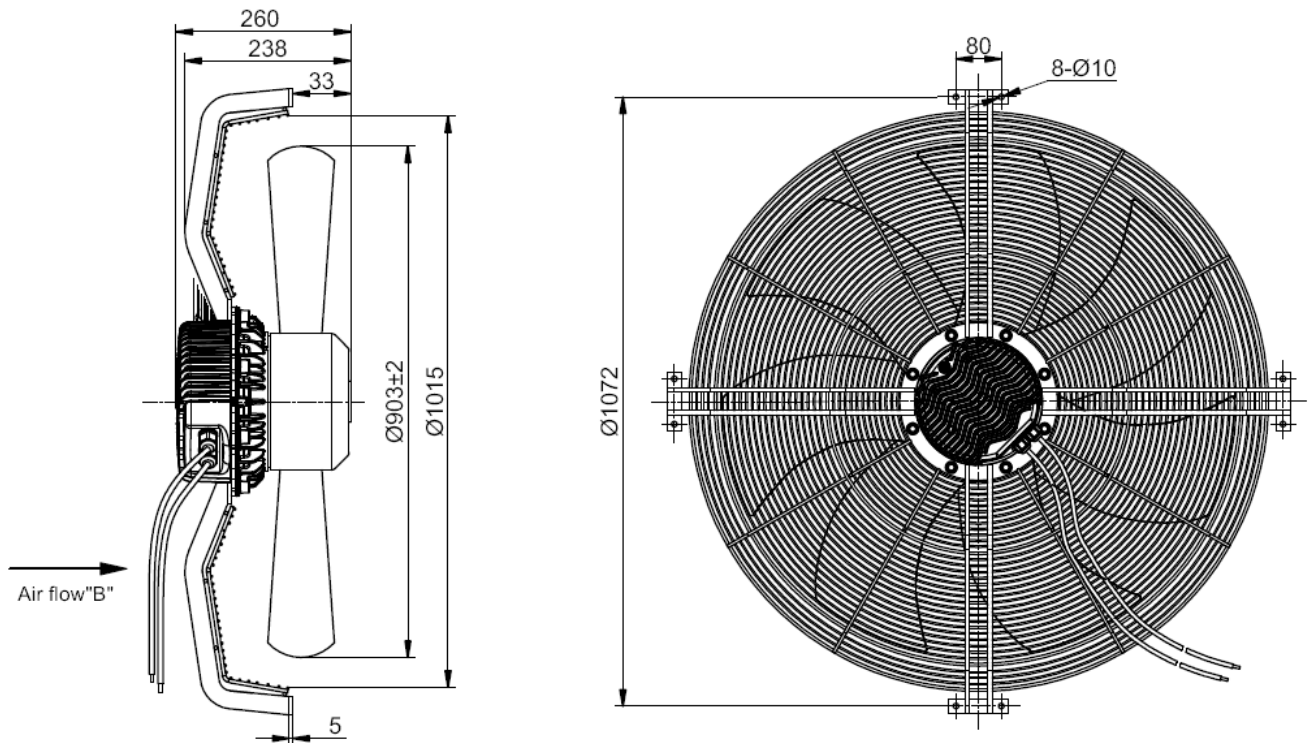
Test data										
Voltage	Frequency	Speed	Power input	Current	Airflow	Static pressure	Dynamic pressure	Total pressure	Pressure Difference	Nozzle Size
V	Hz	r/min	W	A	m ³ /h	Pa	Pa	Pa	Pa	mm
400	50	670	758	1.26	3459	160	1	161	279	150+189*1
400.8	50	670	647	1.08	6626	121	5	125	206	150+189*3
400.9	50	670	616	1.01	9136	100	9	108	241	150+189*4
399.9	50	670	589	0.97	10543	80	12	92	217	150+189*5
400	50	670	572	0.96	11987	60	15	75	280	150+189*5
401.4	50	670	562	0.96	13048	40	18	58	240	150+189*6
401.1	50	670	532	0.9	13763	20	20	40	267	150+189*6
400.9	50	670	496	0.85	14856	0	24	24	310	150+189*6

Model:ECF(K)8D910-PZB7BC0

Fan type:EC Axial fan

TestID		2017032574			Control voltage			4 VDC		
Test environment										
Outlet size		Outlet area		Temperature		Humidity		Baropressure		Density
920mm		0.6648m²		16℃		69%		101.8kPa		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
398.7	50	450	336	0.61	1554	90	0	90	376	150+189*0
399.1	50	450	310	0.58	2995	80	1	81	210	150+189*1
398.6	50	450	294	0.54	4308	70	2	72	431	150+189*1
399.1	50	450	264	0.49	4881	60	3	63	264	150+189*2
400.7	50	450	253	0.47	6551	50	5	55	202	150+189*3
399.8	50	450	248	0.47	7753	40	6	46	282	150+189*3
402	50	450	247	0.46	8496	30	8	38	209	150+189*4
401.9	50	450	232	0.44	9358	20	9	29	253	150+189*4
400.5	50	450	219	0.42	10084	10	11	21	293	150+189*4
399.7	50	450	203	0.39	10631	0	12	12	326	150+189*4

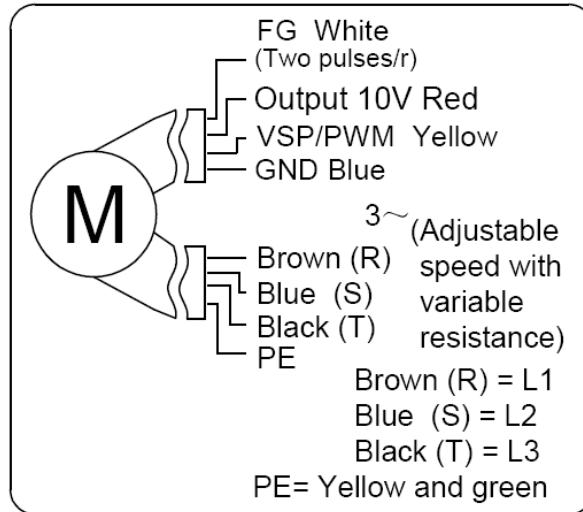
Dimensions(in mm)



Model:ECF(K)8D910-PZB7BC0

Fan type:EC Axial fan

Wiring diagram



Electrical connections

Connection	Assignment/function
L1、L2、L3	Three-phase supply connection, voltage range 380-480VAC, frequency 50/60Hz
PE	Protective earth
FG	Speed feedback pulse output, 2 pulses per revolution, can be customized
+10V	10VDC output,maximum output current 10mA
VSP/PWM	Speed control signal input connection, 0-10V voltage or PWM signal (amplitude 10-12V, frequency 1-10kHz)
GND	Signal ground for control interface

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;

Model:ECF(K)8D910-PZB7BC0

Fan type:EC Axial fan

- ★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.

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;