

PRODUCT SPECIFICATION

YWFF-4E-146B

Forward Curved Centrifugal Fans (220V 50Hz)

2018. 11. 25

1.0 Introduction

This specification describes the standard, operation environment and technical requirements of the product.

2.0 Requirement of production standard and safety regulations

2.1 The product satisfy requirements

2.1.1 GB12350 《Safety requirements of small power motors》

2.1.2 GB/T13275 《General technical requirement for general centrifugal fan》

2.2.3 EN60335-1 《Household and similar electrical appliances-safety》

2.2 The fan has CCC、CE certificate

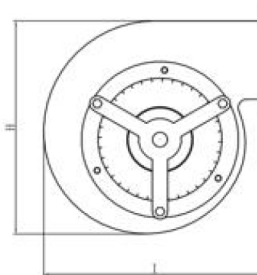
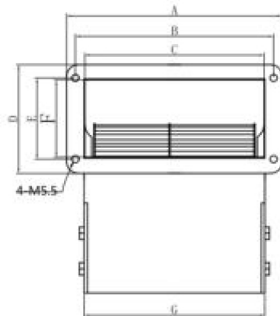
2.3 All material accord with RoHS.

3.0 Mechanical requirements

3.1 Dimension drawing

/Dimensions:

	A	B	C	D	E	F	G	H	I
VWFP2E133	175	165	132	80	65	48	145	168	157
VWFP2E146	270	245	230	142	126	102	232	213	201



3.2 Material

Impeller material:Galvanized sheet, Rotor: Aluminum Casting



3.3 Motor External rotor AC motor

3.4 Maintenance free ball bearings 3.5 Balancing

6.3, JB/T9101 .

At the rated voltage and frequency, the residual unbalance of the fan is not less than G6.3 (balancing precision grade) in each plane, according with JB/T9101.

3.6 Vibration of the fan JB/T8689.

Vibration speed virtual value of fans accord with JB/T8689.

3.7 Runout of impeller

Runout of impeller in axial and radial direction $\leq 1.0\text{mm}$.

3.8 Life time

Fan life expectancy 30000 hours, determined when at nominal supply voltage, running at full speed, environment temperature of 20 C.

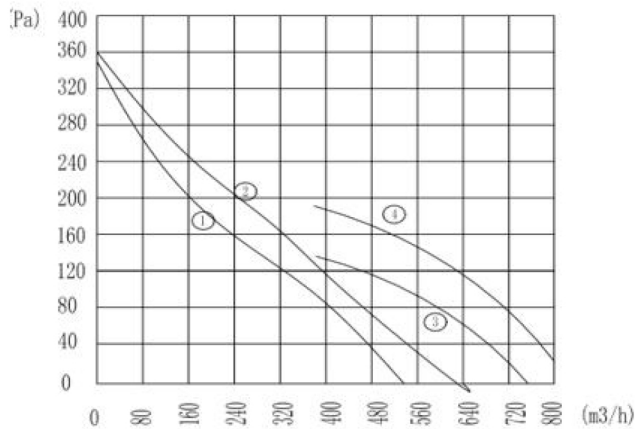
4.0 Fan performance

4.1 Performance data

Model No.	Voltage (V)	Frequency (HZ)	Current (A)	Input power (W)	Speed (R/MIN)	Capacitor (UF)	N.W. (KG)	Noise (dBA)	Max Airflow (m ³ /h)	Curve
YWF-D-2E133B	230	50	0.46	100	1390	5	4.5	62	540	①
YWF-D-2E133B	230	60	0.75	156	1600	5	4.5	66	640	②
YWF-D-4E146B	230	50	0.54	117	1320	5	4.9	61	870	①
YWF-D-4E146B	230	50	0.83	173	1450	5	4.9	66	930	②

4.2 Performance curve

Airflow curves:



5.0 Electrical performance

5.1 Label and Wiring diagram

YWFF4E-146		CL. F CE ROHS
220V/50HZ	0.54A	
117W	1320r/min	
W021200107001529S		

Forward Curved Centrifugal Fans		CL. F CE ROHS
YWFF4E-146		
220V/50HZ	0.54A	
117W	1320r/min	
W021200107000020S		

5.2 Voltage

8~242VV,

The fan is designed to operate at a nominal voltage of 220V , but can be operated in the AC supply voltage range of 198 to 242 V.

5.3 Protection

:150—160°C, 100-130°C

This motor with heat protection, cut off temperature: 150-160°C, replacement temperature 100—130°C5.4

Type of protection

Type of protection is IP54.

5.5 Insulation Class: F

- 6.0 Quality requests
 - Quality requests accord with ISO9001:2000
 - Quality requests accord with AFL standard

7.0 Operating and storing environment requirements

7.1 Operating environment requirements

Operating temperatures from: $-30^{\circ}\text{C}\sim+60^{\circ}\text{C}$.

Operating humidity from: $0\%\sim95\%$ RH.

The altitude: $\leq 1000\text{m}$

7.2 Storing environment requirements

Storing temperatures from $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$; Storing humidity from 0% to 75% RH.

8.0 Packaging and marks

8.1 Packaging

Bubble chamber packaging 8.2

Marks

Markings: Name of manufacturer, type of fan, date of manufacture, weight, Size etc.

9.0 Other requirements on accessory

9.1 Capacitor

Yes, No, or Sales` request; 9.2 Annectent parts

terminal (Yes、 " No)