

The logo for Krube, featuring the word "krube" in a bold, lowercase, sans-serif font. The letter "k" is black with a small orange dot above it. The letter "e" is black with a small orange dot above it. The logo is enclosed in a white circle with a blue border.

**krube**

# **SPECIFICATION**

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**MODEL  
K-AC146-D220-14**

## 1.Purpose

This specification provides part specific requirements and the Engineering Standard and/or Engineering requirements.

## 2.Engineering standard and safety regulations

### 2.1 Engineering standard

2.1.1 GB/T 12350 Safety requirements of small-power motors

2.1.2 JB/T 10563 Technical specification for general purposes centrifugal fans

2.1.3 EN 60335-1 Safety of household and similar electrical appliances

### 2.2 Certification

UL+cUL

CE-LVD

CE-LVD+EMC

CE-EMC

TUV  CCC

Others

2.3 All material accord with RoHS.

## 3.Operating environment requirements

### 3.1 Operating temperature and humidity

Operating temperatures from -20°C to +50°C, Operating humidity from 5% to 85% RH.

### 3.2 Storing temperature and humidity

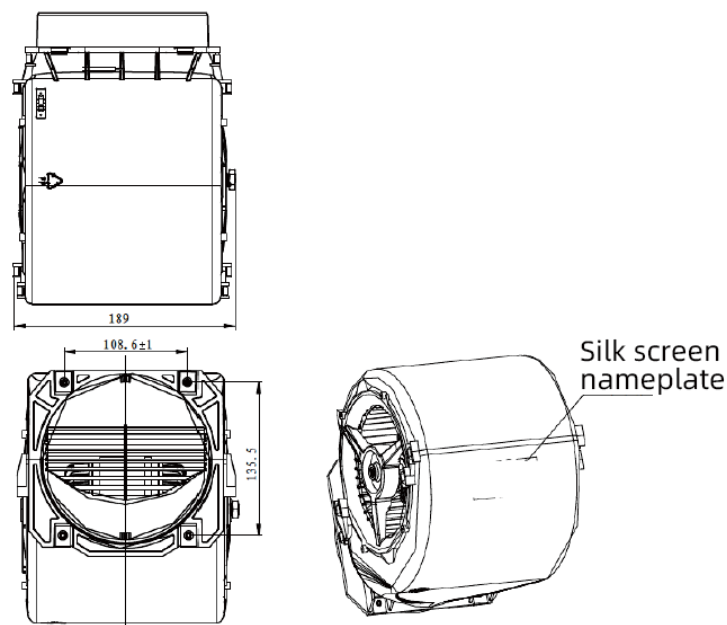
Storing temperatures from -40°C to +65°C, In a clean and well-ventilated warehouse, Relative humidity should be 5% to 95% RH and no corrosive gas exist.

### 3.3 Installing direction

Motor shaft installed horizontally

## 4.Mechanical requirements

### 4.1 Dimension drawing



### 4.2 Impeller

Impeller made of SGCC.

### 4.3 Motor

External rotor AC motor, the motor mode

## 4.4 Balancing

The dynamic balance of fan rotors accord with JB/T9101,the balance quality grade accord with G6.3.

## 4.5 Vibration of the fan

The fan vibration speed virtual value according to JB/T8689 standard.

## 4.6 Runout of impeller

Runout of impeller in axial and radial direction  $\leq 1.2\text{mm}$ .

## 4.7 Type of protection

Ingress protection class is IP20.

## 4.8 Life expectance

Fan life expectance: continuous operation of the fan is 40,000 hours no problem, (at rated voltage, ambient temperature of 40 ° C, at full speed).

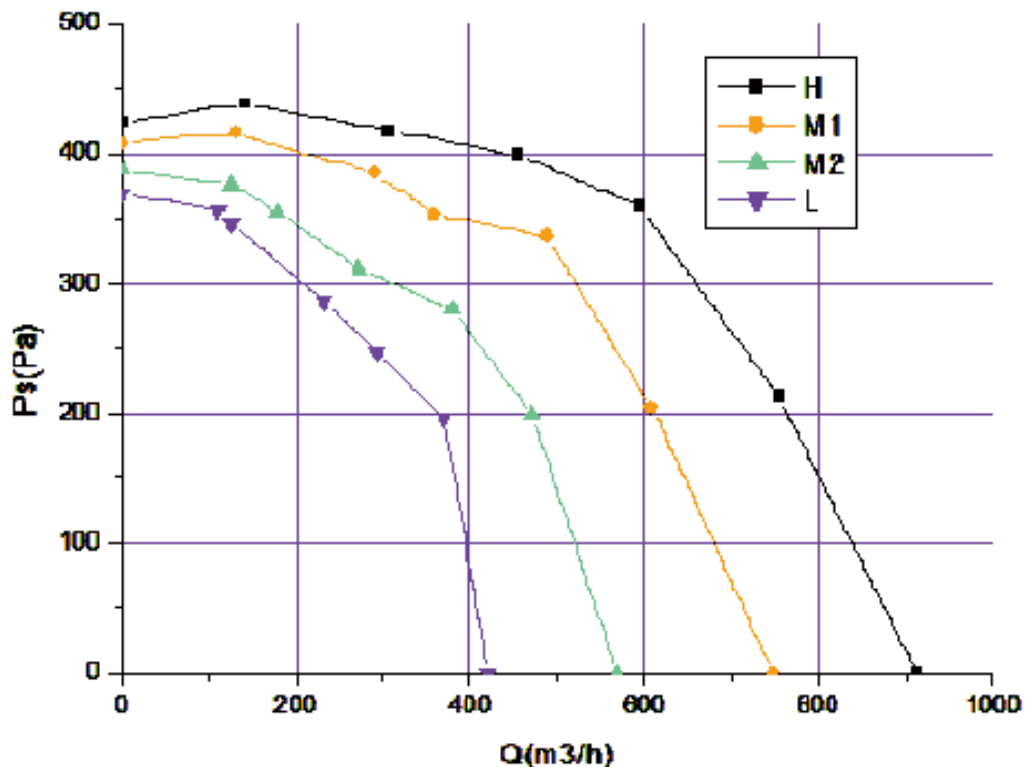
## 5.Fan performance (H/M1/M2/L)

### 5.1 Nominal parameter/Rating data (single fan test)

Switch	Voltage [VAC]	Frequency [Hz]	Capacitor [ $\mu\text{F}/\text{V}$ ] ( $\pm 5\%$ )	Current draw [A]( $\pm 10\%$ )	Power input [W]( $\pm 10\%$ )	Speed [r/min] ( $\pm 10\%$ )	Air flow [m <sup>3</sup> /h] ( $\pm 10\%$ )	Noise [Lp:dB(A)] (-7/+3)	Insulation class
H	220	50	10/450	1.2	260	1800	900	65	F
M1				1.1	230	1450	750	60	
M2				1.0	210	1150	550	55	
L				0.9	190	860	420	50	

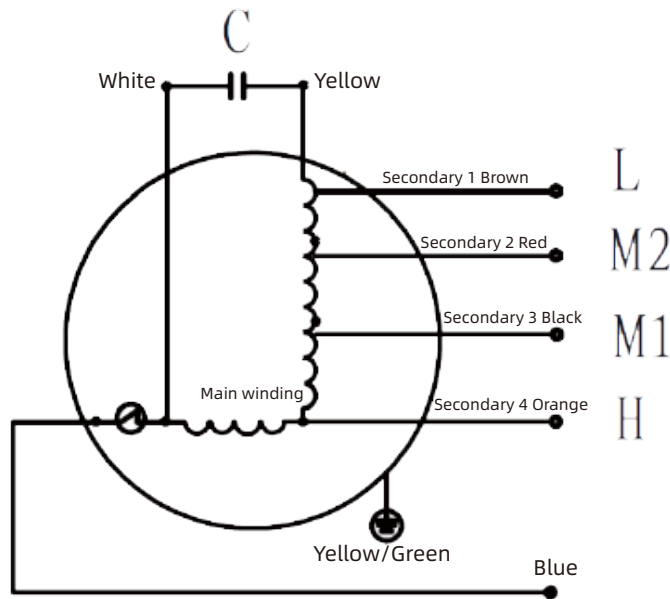
Remark: Noise Tolerance (-7~+3dB(A)) .

### 5.2 Performance curve (Rating voltage 220V/50Hz)



## 6. Electrical performance

### 6.1 View lead connection



### 6.2 Voltage range

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

### 6.3 Protection

This motor with heat protection, cut off temperature: 150°C ~ 160°C, replacement temperature: 95°C ~ 125°C.

## 7. Quality requests

7.1 Quality requests accord with FANS-TECH standard.

## 8. Packaging and marks

### 8.1 Packaging

The package must have a defined size and a suitable structure to ensure that the fan will not be damaged during transport.

### 8. Marks

Marks: Name of manufacturer, type of fan, date of manufacture, weight, size etc.

## 9. Other requirements on accessory

### 9.1 Capacitor

■ Yes、 □ No Model: Square capacitor/10μF/450V(Operation level B)

### 9.2 Scroll housing

■ Yes、 □ No

Scroll housing material: PP+30%GF

### 9.3 Annectent parts

Linker (□ Yes、 ■ No)

Terminal (■ Yes、 □ No)