

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

MODEL
K-AC250-R230-26H

1.Product standard

Production standard	Safety standards	GB12350 « Safety requirements of small-power motors » EN60335-1 « Safety of Household and Similar Electrical Appliances »
	Technical standard	JB/T10563 « Technical specification for general purposes centrifugal fans »
	Fan performance standard	ISO5801 « Industrial fans-Performance testing using standardized airways »
	Noise test standard	GB/T2888 « Methods of Noise Measurement for Fans Blowers Compressors and Roots Blowers »
Environmental protection	√RoHS	√Reach

2.Service environment and life of fan

Content	Unit	Value	Note
Operating temperature	°C	-40~55	
Operating humidity	%RH	0~85	
Storing temperature	°C	-50~70	
Storing humidity	%RH	0~95	
Applicable altitude range	m	< 1000m	
Type of protection		IP44	The first digit is dust proof, the second digit is waterproof.
Insulation class		F	Class F is 155°C
Life time	Hour	20,000	At nominal supply voltage, running at full speed, environment temperature 40°C.

3.Performance conversion due to environmental changes

Density factor	$\rho_1 = e \times \rho_0$ $e = \left(1 - \frac{Z}{44300}\right)^{5.256} \times \frac{293}{273 + t}$ <p>Where: $\rho_0=1.225\text{kg/m}^3$ - standard atmospheric density Z, t - actual altitude and temperature ρ_1 - Actual atmospheric density</p>
Application of density coefficient	<p>Where:</p> $Q_1 = Q_0$ $Ps_1 = e \times Ps_0$ $N_1 = e \times N_0$ <p>Q1 - local fan air volume, Q0 - standard fan air volume Ps1 - local fan static pressure, Ps0 - standard fan static pressure N1 - local fan power, N0 - standard fan power</p>

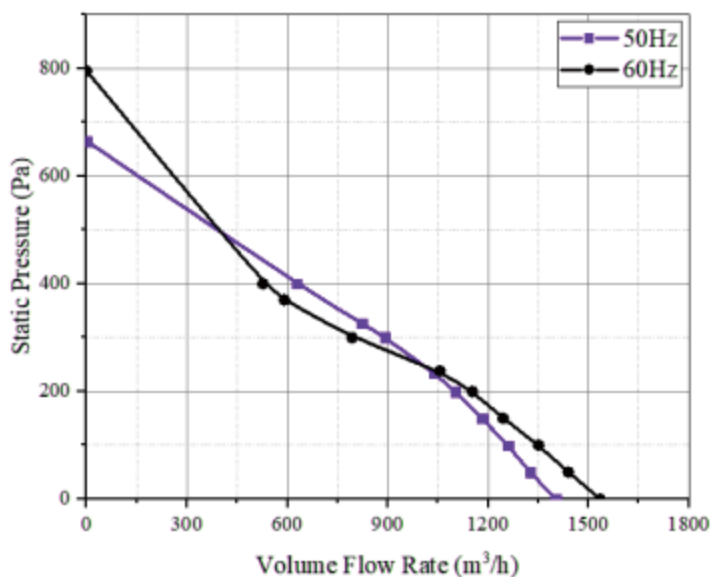
4.Electrical properties

Content	Unit	Value	Note
Rated voltage	VAC	230	
Operable voltage	VAC	196~253	±10%
Capacitor	uF/V	5/450	
Frequency	Hz	50/60	
Rotational speed	r/min	2600/3000	±10% (at 0 static pressure)
Power input	W	150/210	±10% (at 0 static pressure)
Input Current	A	0.69/0.96	±10% (at 0 static pressure)
Protection	The motor has thermal protection function, and the breaking temperature is 145~155 °C, Reset temperature: 85~115 °C.		

5. Fan performance

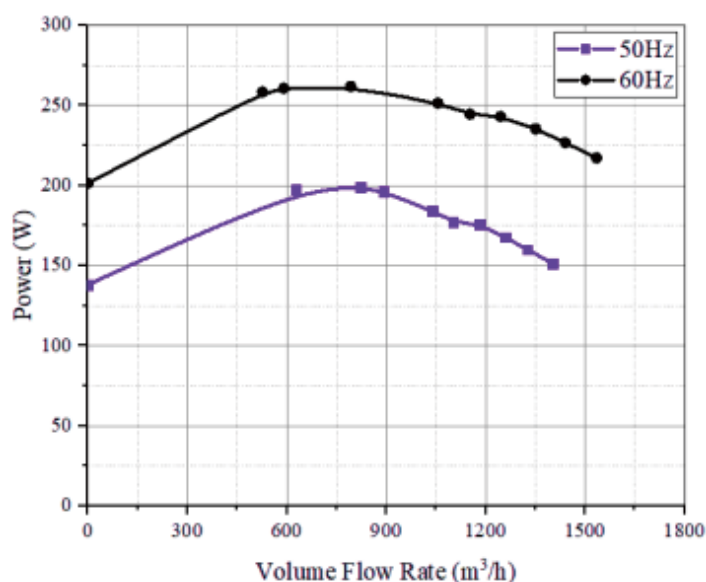
5.1 Characteristic curve of fan

P-Q curve



230V/50Hz			
Static pressure	Air volume	Power	Speed
Pa	m³/h	W	r/min
0	1402	151.4	2699
50	1325	160.3	2660
100	1259	167.8	2630
150	1181	175.8	2593
200	1102	177.3	2582
234	1039	184.3	2550
300	892	196.3	2484
400	627	197.7	2467
665	0	138.2	2743

N-Q curve



230V/60Hz			
Static pressure	Air volume	Power	Speed
Pa	m³/h	W	r/min
0	1535	217.3	2956
50	1440	226.8	2876
100	1351	235.5	2794
150	1245	243.2	2705
200	1153	244.6	2676
238	1056	251.5	2590
300	793	262	2386
370	591	260.8	2383
400	527	258.5	2409
795	0	201.5	3025

5.2 Nominal parameters of the fan

Pst (Pa)	Voltage (VAC)	Frequency (Hz)	Current draw (A)(±10%)	Power input (W)(±10%)	Speed (r/min) (±10%)	Air flow (m3/h) (±10%)	Noise level (dB) (±3%)	Insulation Class
0	230	50	0.69	151.4	2699	1402	72.7	F
0	230	60	0.99	217.3	2956	1535	75.2	F

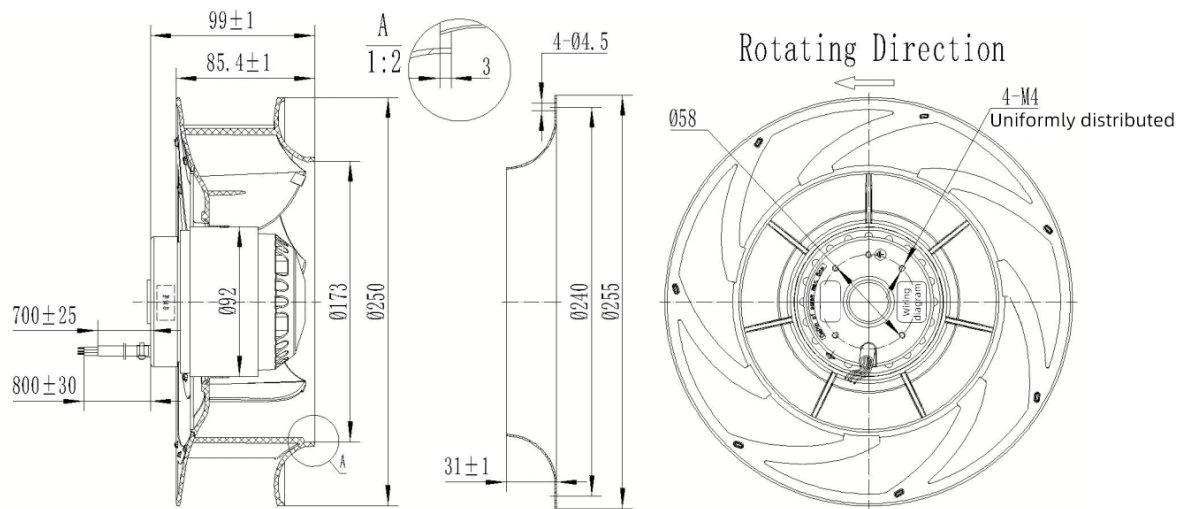
The nominal parameter is the test data of the venting state of a single fan without a wind deflector (the state is approximately 0Pa static pressure, and the air volume is the wind tunnel test data);

5.3 Maximum fan power parameters

Pst (Pa)	Voltage (VAC)	Frequency (Hz)	Current draw (A)(±10%)	Power input (W)(±10%)	Speed (r/min) (±10%)	Air flow (m3/h) (±10%)	Noise level (dB) (±3%)	Insulation Class
400	230	50	0.90	197.7	2467	627	65.3	F
300	230	60	1.20	262	2386	793	65.1	F

6.Mechanical requirements for fans

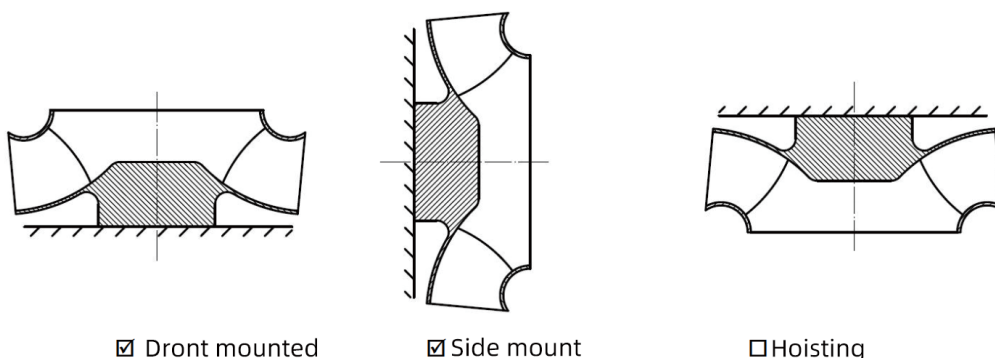
6.1 Dimensions for Axial Fans



6.2 Mode of connection

Color	Black	Brown	Blue	Yellow/Green
Function	Main	Vice	Common	Land

6.3 Mounting directions



5.4 Impeller, Collecting ring

The impeller is made of plastic;

The air duct is made of galvanized sheet material after electrophoresis dusting;

5.5 Motor

External rotor single-phase asynchronous motor

5.6 Fan weight: 2.67 kg

7.Nameplate, logo and accessories

Nameplate		
Accessories	Adapting piece	Linker (Yes、 No) Terminal (Yes、 No),
Air deflector		<input checked="" type="checkbox"/> Yes, <input type="checkbox"/> No
Capacitance		<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No
Bracke		<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No

7.Nameplate, logo and accessories

- 1.The fan and motor must be used within the prescribed scope of temperature and humidity otherwise it will cause an unexpected damage.
- 2.Provide the right voltage according to the nameplate otherwise it will damage the product.
- 3.Wiring depends on the wiring diagram and please connect the earth ground if required. We don't suggest to use the extension cord .Any wrong connection may cause the damage of the fan.
- 4.Be careful when moving the fan and do not take the blades as a handle because it will cause the distortion and chatter.
- 5.Connect the thermostat if required otherwise it would damage the motor because of the over temperature.
- 6.The length of the mounting screws shall not exceed the requirement, otherwise the fan will be damaged.
- 7.Do not disassemble the fan arbitrarily. It may hurt the capacity of water tightness and dynamic balance or cause other serious problems.
- 8.The over current protector is necessary in case the damage from the over current.
- 9.Install the fan as required, any other installing direction would affect the service life of the product.
- 10.The fan with inlet ring should be installed follow the requirements or it will affect the performance.
- 11.Users should use the standard cable when install the fan otherwise it will affect the water tightness.
- 12.The fan should keep away from the children especially the blade and electric parts .And the children are not allowed to operate the fan alone.

Please be informed that we are not responsible for any damage or accidents caused by violating above rules to install and operate the fan.