

Centrifugal Fan

◆ Product Description

A centrifugal fan is a device that operates on the principle of converting kinetic energy into potential energy. It utilizes a high-speed rotating impeller to accelerate the gas, followed by decelerating the gas and changing its flow direction, thereby converting the kinetic energy into potential energy.



- Efficient & Energy-Saving, Low Consumption with High Output
- Low Noise & Stable Operation, Reliable Performance
- Strong Adaptability to Complex Working Conditions
- Compact Structure, Flexible Installation
- Easy Maintenance, Low Operation & Maintenance Costs

◆ Product Structure

- The product structure of centrifugal fans is designed around efficient pneumatic transmission and stable operation. It is mainly composed of core working components (impeller, casing, air inlet), the core for gas pressurization and flow guiding, transmission and support system, sealing and protection system, and auxiliary accessories. Each component adopts a modular and adaptable design, supporting material customization for different working conditions and multi-scenario installation while ensuring convenient inspection and maintenance. All components work synergistically to achieve the functions of gas suction, pressurization and transportation.

◆ Typical Applications

- Industrial centrifugal fans are widely applied in diverse fields, including ventilation, dust extraction and cooling for factories, mines, tunnels, cooling towers, vehicles, ships and buildings; ventilation and induced draft for boilers and industrial furnaces; cooling and ventilation in air conditioning systems and household electrical appliances; grain drying, separation and conveyance; as well as wind supply for wind tunnels, inflation and propulsion of hovercrafts, and other related applications.

◆ Typical Product Data and Physical Properties

Material of Impeller/Casing/Air Inlet: Q235 Carbon Steel
 Bearing Material: High-Carbon Chromium Bearing Steel
 Air Volume: 12000 CHM / 25000 CHM / 30000 CHM
 Static Pressure (Outside Unit): 1500 Pa / 1800 Pa / 1800 Pa
 Power: 11 kW / 22 kW / 22 kW
 Rotational Speed: 1800 RPM / 1600 RPM / 1600 RPM
 Density: 7.85 g/cm³
 Tensile Strength: ≥ 470 MPa
 Yield Strength: ≥ 235 MPa
 Temperature Resistance Range: -20°C to 120°C

Availability:

Item#	Air volume	External Static Pressur	Power	Speed
1.4.24.01.0205	12000CHM	1500PA	11KW	1800RPM
1.4.24.01.0195	25000CHM	1800PA	22KW	1600RPM
1.4.24.01.0196	30000CHM	1800PA	22KW	1600RPM

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data is for reference purposes only.

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