

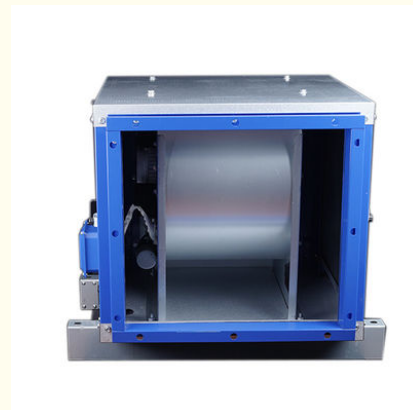
Powerful Cabinet Centrifugal Fan for Electronics and Semiconductor Manufacturing with High Static Pressure Motor

Our Product Introduction

for more products please visit us on zd-fan.com

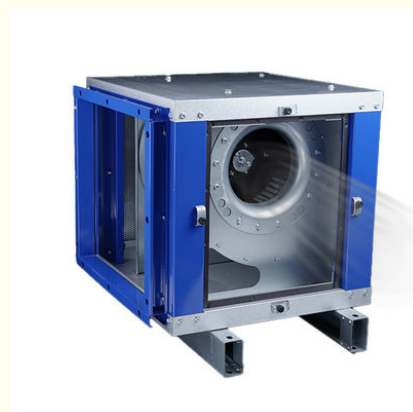
Basic Information

- Place of Origin: China Foshan
- Brand Name: Available for ODM
- Certification: CE
- Model Number: DT42-120
- Minimum Order Quantity: 1
- Price: Contact Us
- Packaging Details: Carton packaging 1 units per carton
- Delivery Time: 3-8 work days
- Payment Terms: T/T
- Supply Ability: 5000

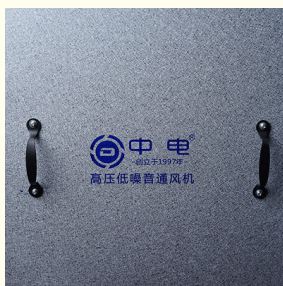
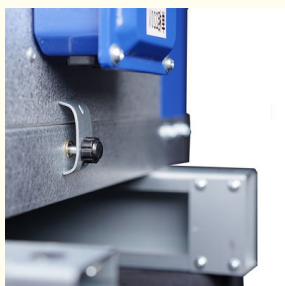


Product Specification

- Applicable Industries: Hotels, Garment Shops, Building Material Shops, Manufacturing Plant, Machinery Repair Shops, Food & Beverage Factory, Farms, Restaurant, Home Use, Retail, Food Shop, Printing Shops, Construction Works, Energy & Mining, Food & Beverage Shops, Advertising C
- Electric Current Type: AC
- After-sales Service Provided: Online Support
- Place Of Origin: China Foshan
- Voltage: 380V
- Customized Support: OEM
- Model Number: DT42-120
- Warranty: 1 Year
- Core Components: Motor, Other, Impeller
- Function: Ventilation



More Images



Product Description

Product Application Scenarios

Industrial Air Management

Eliminates hazardous fumes, particulate matter, and airborne contaminants in manufacturing facilities, ensuring compliance with occupational health standards and worker comfort.

Chemical & Pharmaceutical Production

Delivers consistent airflow to maintain controlled environments for sensitive chemical synthesis and pharmaceutical processing, safeguarding product integrity.

Cleanroom Technology (Electronics/Semiconductors)

Implements advanced air filtration to eliminate micron-scale particles, protecting high-precision electronic components from contamination during fabrication.

Commercial HVAC Integration

Optimizes building-wide ventilation through dynamic airflow regulation, improving indoor air quality (IAQ) in office complexes, hospitals, and public infrastructures.

Heavy Industry Operations (Mining/Metallurgy)

Deploys robust exhaust systems to mitigate explosive gas accumulation and airborne particulates, enhancing safety in subterranean and high-temperature environments.



Motor Advantages

1. High-Performance Copper-Wound Design

Superior Airflow Dynamics: High-static-pressure engineering enables forceful airflow penetration through dense duct networks or extended ventilation pathways.

Enhanced Conductivity: Copper windings minimize resistive energy losses, achieving 15-20% higher torque density versus aluminum alternatives at equivalent power ratings.

2. Operational Stability & Durability

Thermal Resilience: Oxidation-resistant copper components and precision-balanced rotors ensure consistent performance under cyclic thermal loads (e.g., -20°C to 120°C).

Low-Failure Architecture: Redundant bearing systems and IP55-rated enclosures reduce maintenance intervals by 40% in high-humidity or dusty environments.

3. Energy-Efficient Operation

Variable Speed Optimization: Achieves target airflow volumes at reduced RPMs, cutting energy use by up to 30% compared to fixed-speed motors.

Lifecycle Cost Savings: ECO Mode algorithms align with ISO 50001 standards, yielding ROI within 18–24 months through lowered kWh consumption.

4. Acoustic Engineering

Noise-Dampened Operation: Multi-stage silencers and vibration-isolated mounts limit sound output to ≤ 45 dB(A), meeting WHO guidelines for noise-sensitive zones.



Fan Wheel Specifications

A. Aerodynamic Efficiency

Turbofoil Blade Geometry: Computational fluid dynamics (CFD)-optimized impellers maximize pressure differentials, achieving 92%+ static efficiency in backward-curved designs.

B. Material Innovation

Corrosion-Resistant Alloys: Electro-galvanized steel or composite polymer construction prevents degradation from acidic/alkaline exhaust streams.

C. Energy-to-Airflow Ratio

Delivers 12% higher CFM/Watt than industry benchmarks, validated via AMCA 210-16 testing protocols.

Compliance & Sustainability

Certifications: UL 705, CE, RoHS, and ISO 14064-1 (carbon footprint tracking).
Recyclability: 85% component disassembly rate for circular economy compliance.



Product Parameters

Durable Construction: Made from high-strength materials with excellent wear and corrosion resistance, ensuring long-term stable operation.

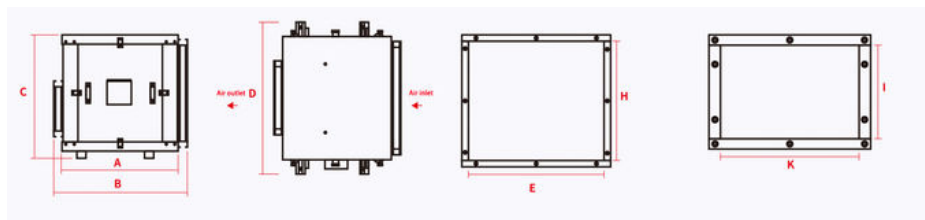
Low Maintenance Costs: The well-designed structure results in a lower failure rate, reducing the frequency of repairs and parts replacements, thereby lowering maintenance costs.

Suitable for Multiple Applications: Effective in diverse fields such as industrial ventilation, air conditioning systems, and wind power generation.

Versatile Operation in Various Environments: Maintains stable performance in different conditions, whether high or low temperatures, humidity, or dryness. It can reliably function in harsh industrial settings.

| Model Numb | Voltage | Ffrequency | Rotating speed | Air volume | Total Pressure | Sound Level | Power | Weight |
|------------|---------|------------|----------------|------------|----------------|-------------|-------|--------|
| | (V) | (Hz) | (r/min) | (m2/h) | (Pa) | (dB) | (W) | (kg) |
| DT11-36 | 220/380 | 50 | 1450 | 3600 | 562 | 57 | 1.1 | 49 |
| DT13-48 | 220/380 | 50 | 1450 | 4800 | 623 | 63 | 1.5 | 58 |
| DT18-61 | 220/380 | 50 | 1450 | 6100 | 673 | 68 | 2.2 | 70 |
| DT25-81 | 220/380 | 50 | 1450 | 8100 | 781 | 69 | 3 | 79 |
| DT32-100 | 220/380 | 50 | 1450 | 10000 | 810 | 75 | 3.8 | 84 |
| DT42-120 | 380 | 50 | 1450 | 12000 | 830 | 78 | 5 | 100 |
| DT48-150 | 380 | 50 | 1450 | 15000 | 860 | 78 | 5.5 | 101 |
| DT55-200 | 380 | 50 | 1450 | 20000 | 870 | 79 | 6 | 122 |

Product Dimension Diagram



Product Dimension Parameters

| Model Numb | A | B(Length) | C(Height) | D(Width) | Air Inlet (Internal Diameter) | | Air Outlet (Internal Diameter) | | Flange Thickness |
|------------|-----|-----------|-----------|----------|-------------------------------|-----------|--------------------------------|-----------|------------------|
| | | | | | E(Length) | H(Height) | I(Height) | K(Length) | |
| DT11-36 | 560 | 660 | 613 | 750 | 467 | 428 | 250 | 305 | 30x30 |
| DT13-48 | 570 | 668 | 650 | 780 | 497 | 460 | 210 | 335 | 30x30 |
| DT18-61 | 620 | 718 | 705 | 860 | 580 | 515 | 235 | 355 | 30x30 |
| DT25-81 | 650 | 748 | 740 | 910 | 630 | 550 | 250 | 380 | 30x30 |
| DT32-100 | 650 | 748 | 740 | 910 | 630 | 550 | 250 | 380 | 30x30 |
| DT42-120 | 725 | 823 | 815 | 962 | 679 | 625 | 280 | 355 | 30x30 |
| DT48-150 | 750 | 848 | 815 | 1000 | 717 | 625 | 380 | 405 | 30x30 |
| DT55-200 | 780 | 879 | 840 | 1030 | 747 | 650 | 380 | 415 | 30x30 |

Company Profile

Guangdong Zhongdian Jiajin Environmental Technology Co., Ltd. originated from Foshan Nanhai Zhongxing Hardware Electrical Appliance Factory (with brands including Zhongdian Fresh Air and Zhongdian Xinke). The company specializes in the research, development, and manufacturing of DKT external rotor air conditioning fans (snail-type and square-type), mixed flow booster duct fans, KTF stainless steel external rotor centrifugal air handling units, air curtains, purifying low-noise fans, and centrifugal low-noise ventilation equipment. It is a modern national high-tech enterprise focusing on EC frequency conversion digital energy-saving fans. The manufacturing base is located in Foshan, Guangdong Province. Since its establishment in 1997, the company has adhered to a quality-centric approach and actively developed its proprietary brand, Zhongdian. It has successively passed ISO9001, CE, and national CCC mandatory product certifications and has obtained multiple utility model patents. The company ranks among the top in the industry in terms of comprehensive strength and brand influence.

Guangdong Zhongdian Jiajin Environmental Technology Co., Ltd. operates under the philosophy of "Technological Innovation, Respect for Talent, Reform and Innovation, Pursuit of Excellence." The company has introduced over ten advanced automation devices and possesses a testing laboratory that complies with the national standard GB/T 1236-2017 "Performance Testing of Industrial Fans with Standardized Ducts," along with a 5S management system. It emphasizes user experience with its products and focuses on continually meeting customer needs. Through relentless efforts, the company has become a leader in the fresh air system market.

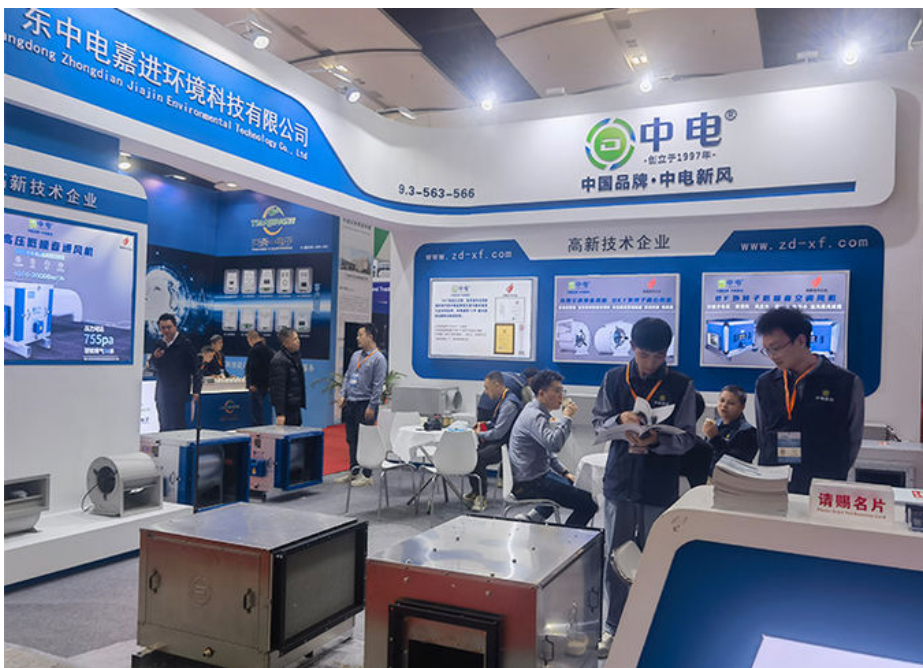
The company adheres to the principle of "Quality First, Quantity Second," earning trust from users across the country with its excellent quality and outstanding performance. It strives to enhance competitive advantages in pre-sales, sales, and after-

sales services, and continues to uphold the creed of "Customer First, Service Excellence." The company is dedicated to continuous product and service iteration, aiming to become a leading brand in high-end fresh air system equipment.



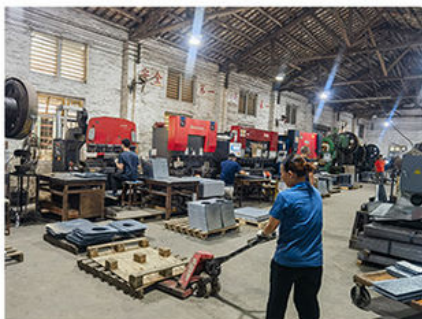
EXHIBITION SHOW

We have strong sales network system and can undertake a large number of OEM/ODM orders.. Our products are mainly exported to Europe, America, the Middle East and Southeast Asia, and old customers account for up to 30%.Our products are made of pure copper tubes and use Yongan motors, has the characteristics of high quality, super mute, comfortable style and reasonable price. We have independent R & D and design team that can meet any comments and conditions you have on product customization and technology research and development.





The team

Our team will also carry out some outdoor group building activities to enhance the cohesion of employees and devote the mselves to work with more enthusiasm.



 ZhongDian **Guangdong Zhongdian Jiajin Environmental Technology Co., Ltd.**

 0085246403891

 sales001@zd-fan.com

 zd-fan.com

Xizi Industrial Zone, Lishui Town, Nanhai District, Foshan City, Guangdong Province, China