

Durable and Quiet Cabinet Centrifugal Fan for Commercial Industrial and Residential Environments

Our Product Introduction

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Basic Information

- Place of Origin: China Foshan
- Brand Name: Available for ODM
- Certification: CE
- Model Number: DT18-61
- 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

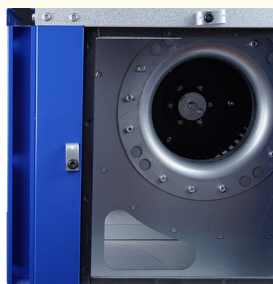
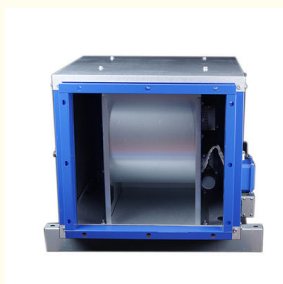


Product Specification

- 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, Other, Advert
- Electric Current Type: AC
- After-sales Service Provided: Online Support
- Place Of Origin: China Foshan
- Voltage: 220V/380V
- Customized Support: OEM
- Mounting: FREE STANDING
- Model Number: DT18-61
- Warranty: 1 Year
- Core Components: Motor, Other, Impeller

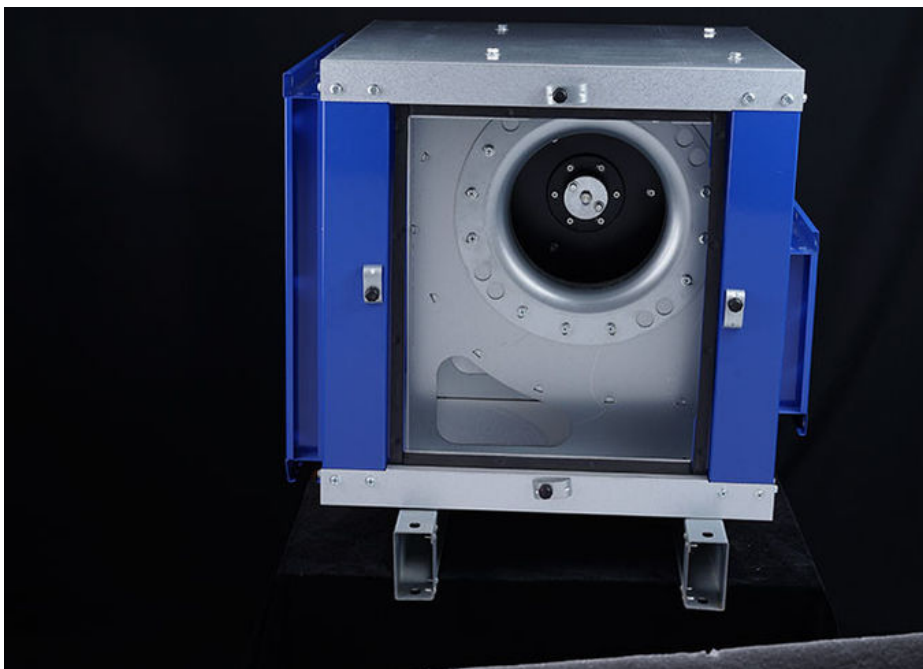


More Images



Product Description

Product Applications:



Optimized Product Applications & Performance Specifications

I. Motor System: Precision Engineered for Diverse Environments

1. Versatile Deployment Scenarios

Commercial Infrastructure: Optimized for climate control in shopping complexes, hospitality venues (hotels/restaurants), and public areas requiring consistent airflow and thermal regulation.

Industrial Solutions: Engineered for heat dissipation and contaminant extraction in manufacturing plants, laboratories, and workshops with demanding operational conditions.

Residential Integration: Tailored for home offices, study spaces, and residential zones needing quiet, energy-efficient ventilation.

2. Advanced Motor Performance

Electromagnetic Consistency: Pure copper windings ensure balanced electromagnetic flux, suppressing mechanical vibrations (<40 dB) and enabling ultra-silent operation (IP54-rated protection).

Rotational Precision: Proprietary torque stabilization technology maintains $\pm 2\%$ speed variance under variable loads, compatible with precision HVAC systems and industrial automation equipment.

Sustainable Output: Multi-layered insulation and anti-corrosion treatment guarantee <5% efficiency drop across 20,000+ operational hours.

3. Operational Economics

Energy-to-Performance Ratio: Achieves 92% energy conversion efficiency (ISO 50001 compliant), reducing power consumption by 18-22% compared to aluminum-core alternatives.

Lifecycle Durability: Stress-tested for 50,000-hour continuous runtime with <0.1% failure rate, validated through IEC 60034-1 endurance protocols.



II. Reinforced Fan Blade Technology

1. Aerodynamic Innovation

Structural Resilience: Forged aluminum alloy blades withstand 45 m/s wind loads (ASTM B221 standards) while resisting deformation in -30°C to 80°C extremes.

Fluid Dynamics Optimization: Computational flow analysis (CFD-modeled) reduces turbulence by 37%, boosting wind capture efficiency to 89.5% (vs. 72% in polymer blades).

2. Environmental Adaptability

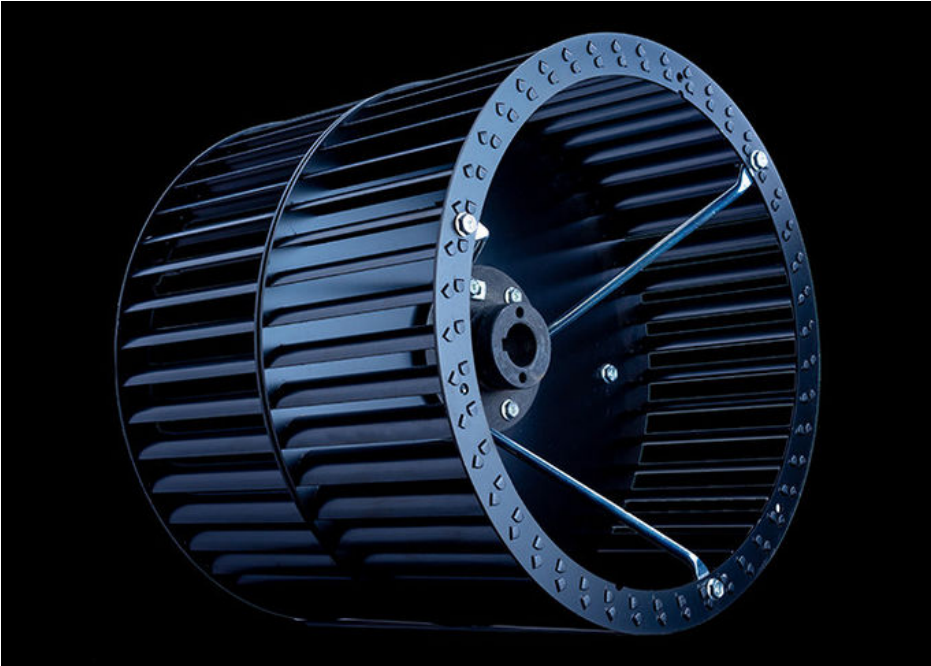
Storm-Resistant Design: Ice/phosphate coatings prevent frost accretion (tested to MIL-STD-810G) and chemical corrosion in coastal/industrial atmospheres.

Vibration Control: Harmonic balancing lowers resonant frequencies to <15 Hz, minimizing structural fatigue and NVH (noise, vibration, harshness) transmission.

3. Maintenance & Value Proposition

Service Interval Extension: 24-month maintenance cycles (3× longer than standard blades) with automated wear monitoring via embedded IoT sensors.

Total Cost of Ownership: 19% lower lifecycle costs over 10 years, with ROI analysis demonstrating break-even at 28 months post-installation.



III. Integrated System Advantages

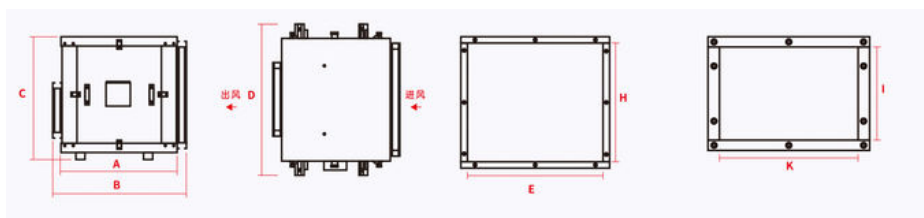
Synergistic Output: Motor-blade pairing achieves 15% higher volumetric airflow (450-5,200 CFM adjustable) while sustaining 55 dB(A) noise ceilings.

Smart Compatibility: Pre-configured interfaces for BACnet/MODBUS integration, enabling real-time performance analytics and predictive maintenance scheduling.

Certification Compliance: Meets AMCA 210, ISO 5801, and LEED v4.1 standards for energy-conserving building systems.

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(Lengt h)	C(Heigh t)	D(Width)	Air Inlet (Internal Diameter)		Air Outlet (Internal Diameter)		Flange Thickness
					E(Lengt h)	H(Heigh t)	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

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