Ventilation Exhaust Inline Cabinet Centrifugal Fan Metal Box for Restaurant

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- · Packaging Details:
- Delivery Time:
- Payment Terms: T/T
- Supply Ability:



Product Specification

• Applicable Industries:

• Electric Current Type:

After-sales Service

Provided: • Place Of Origin:

• Voltage:

Restaurant, Home Use, Other, Hospital, Laboratory, Graduate School, Beauty Salon, Office AC **Online Support**

Carton packaging 1 units per carton

- China Foshan

China Foshan

CE

1

5000

DT55-200

Contact Us

3-8 work days

Available for ODM

- Customized Support:
- Warranty:
- Core Components:
- Mounting:
- Highlight:
- 380V/50Hz OEM, ODM 1 Year
- Motor
- Duct Fan

inline cabinet centrifugal fan, exhaust inline cabinet centrifugal fan, inline exhaust centrifugal fan



More Images



Our Product Introduction

Product Applications Core Utilization Scenarios

Industrial Environments

Deployed for air exchange in manufacturing facilities to eliminate hazardous fumes, particulate matter, and malodorous substances, optimizing workplace s afety and comfort.

Chemical & Pharmaceutical Sectors

Delivers consistent airflow to stabilize reaction conditions in sensitive processes, ensuring precision in product formulation and batch uniformity.

Electronics & Semiconductor Production Integrates with cleanroom filtration systems to safeguard microcomponents from airborne contaminants during fabrication and assembly.

Commercial HVAC Integration Enables efficient air cycling in architectural spaces, mitigating indoor pollutants (e.g., CO₂, VOCs) to meet health and regulatory standards.

Mining & Metallurgy Operations

Supports subterranean and high-heat zone ventilation, extracting combustible gases and particulate emissions to prevent occupational hazards.



Motor Technology

Key Benefits of High-Static Copper-Wound Motors

Enhanced Operational Capacity

Engineered to generate exceptional static pressure (up to [X] Pa), these motors counteract systemic resistance in intricate duct networks, enabling extended -range airflow delivery. Copper windings minimize joule losses, translating to 15-20% higher torque efficiency versus aluminum alternatives, ideal for multist ory buildings and industrial complexes.

Durability Under Stress

Precision-balanced rotors and reinforced bearings withstand prolonged high-load cycles (>10,000 hours MTBF). Copper's thermal conductivity prevents hots pot formation, reducing insulation degradation risks even in 60°C ambient conditions.

Energy Optimization

ECM/BLDC variants achieve IE5 efficiency ratings, lowering power draw by 30-40% compared to AC induction models. Adaptive speed modulation aligns o utput with real-time demand, slashing annual kWh consumption in 24/7 operations.

Acoustic Refinement

Multi-stage noise suppression—including skewed stator slots, vibration-dampening mounts, and aerodynamic blade profiles—maintains operational dB level s below 55 dB(A) at 1m distance, compliant with WHO nighttime noise guidelines.

Lifecycle Economy

Corrosion-resistant housing (IP55-rated) and self-lubricating components eliminate biannual maintenance needs. Copper's oxidation resistance ensures sta ble impedance over 8-10 years, minimizing performance drift.



Impeller Design

Metallic Impeller Superiority vs. Polymer Alternatives

Structural Integrity

CNC-machined aluminum/steel alloys endure centrifugal forces exceeding 25,000 RPM without fatigue fractures, critical for turbo-fan configurations in press urized systems.

Abrasion Resistance

Hard-anodized surfaces or stainless-steel coatings reduce erosive wear from particulate-laden airstreams, extending service intervals by 3x in dust-heavy s ettings like woodshops or cement plants.

Thermal Stability

Retains dimensional accuracy across -30°C to 300°C thermal gradients, preventing warping in foundry exhausts or industrial ovens where thermoplastics w ould deform.

Precision Dynamics

Laser-balanced to G2.5 grade (ISO 1940), achieving <0.5g mm/kg residual unbalance. This minimizes harmonic vibrations that accelerate bearing wear in H VAC blowers.



Technical Parameters

Motor Power Range: 0.75-22 kW Max Static Pressure: 1500 Pa Airflow Capacity: 200–12,000 m³/h Noise Spectrum: 45–68 dB(A) (configurable via variable-frequency drives) Certifications: AMCA 210, ISO 9001, RoHS Directive

Model Numb	Voltage	Ffrequenc y	Rotating speed	Alr 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 Dimensions Diagram



Product Dimensions and Specifications

Model	A	B(Lengt h)	C(Heigh t)	D(Width)	Air Inlet (Internal Diameter)		Air Outlet (Internal Diameter)		Flange
NUMD					E(Lengt h)	H(Heigh t)	l(Height)	K(Length)	Thickness
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

StongDian 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