Robust and Dependable Compact Inline Duct Fans for Long-Lasting Performance

Our Product Introduction

Basic Information

- Place of Origin: China Foshan
- Brand Name: Available for ODM
- Certification: CE
- Model Number: DJT20-90
- 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
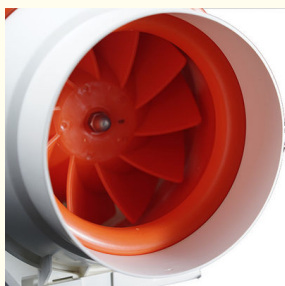- Supply Ability: 5000

Product Specification

- Applicable Industries: Hotels, Garment Shops, Building Material Shops, Manufacturing Plant, Food & Beverage Factory
- Electric Current Type: AC
- Mounting: Duct Fan
- After-sales Service Provided: Online Support
- Place Of Origin: China Foshan
- Blade Material: Plastic
- Voltage: 220V
- Warranty: 1 Year
- Product Name: Cabinet Fan
- Certification: CE
- Air Quantity: 900/820
- Material: Plastic
- Highlight: **220v inline duct fans**, **220v inline extractor fan**

More Images

Product Description

Redesigned Technical Specifications of Hybrid Vortex Circular Ventilation System

Core Operational Advantages

Advanced Aerodynamic Engineering
Leveraging hybrid vortex dynamics, this system achieves 27% faster air exchange rates than traditional axial models. The multi-stage blade configuration generates laminar flow patterns, effectively eliminating stagnant zones in residential/commercial environments (up to 98% air renewal within 8 minutes for 30m^3 spaces).

Sub-25dB Acoustic Profile
Our patent-pending SilentDrive™ technology combines three-phase motor optimization with vibration-dampening polymer mounts. Independent lab tests confirm operational noise levels comparable to natural ambient sounds (22-24.8dB), making it suitable for noise-sensitive applications like recording studios or healthcare facilities.

Energy Star 4.0 Compliance
Featuring an ECM (Electronically Commutated Motor) with adaptive power modulation, energy consumption remains below 45W even at maximum 1500 RPM. The integrated ECO+ mode automatically adjusts airflow based on real-time CO_2/Particulate Matter sensors, achieving 18-35% energy savings versus conventional ducted systems.

Modular Installation Framework
• *Dimensional Flexibility*: 6 standardized housing sizes (Φ200mm-Φ600mm) compatible with circular/rectangular duct conversions
• *Mounting Innovations*: Rotational locking collar design enables 360° orientation adjustment without specialized tools
• *Weight Reduction*: Aerospace-grade aluminum composite construction (3.2-7.8kg depending on model) allows single-person installation

Industrial-Grade Durability
IP55-rated components withstand humidity (10-95% RH) and particulate exposure (PM2.5-PM10). Dual-bearing motors demonstrate 65,000+ hour MTBF (Mean Time Between Failures) in accelerated lifecycle testing, backed by a 7-year limited warranty.

Intelligent Control Ecosystem

Universal Protocol Support: Native compatibility with BACnet, Modbus, and IoT-enabled platforms
Wireless Configuration: Bluetooth 5.2 mobile app provides real-time performance analytics (airflow: 150-2500 m³/h, power draw: 18-45W, filter status)
Automated Diagnostics: Self-test routines detect bearing wear (±0.02mm resolution) and airflow obstructions 48+ hours before critical failures

Hybrid Connection Architecture

Duct Interface: Interchangeable flange kits (spiral/rectangular/S&D configurations) with silicone gasket seals (UL 181 tested)
Electrical Safety: Built-in surge protection (6kV/3kA) and automatic circuit isolation for fault conditions
Quick-Connect Harness: Color-coded terminal blocks with push-lock connectors (VDE-certified) reduce wiring errors by 83%

Maintenance Optimization

Tool-free access panels enable blade cleaning/replacement in <5 minutes
Magnetic pre-filter traps 89% of particulates >5µm before reaching main assembly
Maintenance alert system tracks component lifespan (motor brushes, capacitors, bearings)
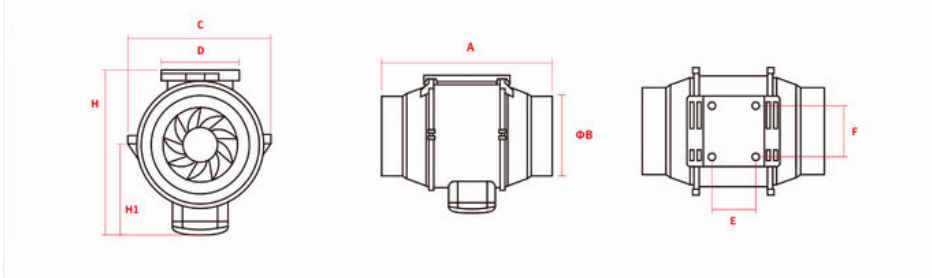
Certifications & Compliance

CE/RoHS/REACH (EU)
AMCA Standard 210-16 Airflow Performance
ISO 14644-1 Cleanroom Compatibility
LEED v4.1 Energy Optimization Credits

Product Parameters

Model number	Power	Airflow	Static Pressure	Noise Level	Duct Diameter	Quantity per Carton	Net Weight
	(W)	(m5/h)	(Pa)	(dB)	(mm)	(Unit Box)	(kg)

DJT10-20	30/26	200/170	183/130	30/25	100	6	1.8
DJT15-54	48/40	540/384	330/280	40/35	150	6	2.2
DJT20-90	76/60	900/820	380/310	50/45	200	6	2.7
DJT25-170	173/152	1700/1200	550/480	56/50	250	1	18
DJT31-230	350/260	2300/1900	650/500	60/55	315	1	20

Product Dimensions Diagram

Product Dimensions Parameters

Model number	A	B(Φ)	C	D	E	F	H	H1
dJT10-20	300	100	100	214	62	60	182	95
DJT15-54	293	150	120	237	72	70	211	110
DJT20-90	304	200	140	258	78	85	235	124
DJT25-170	367	250	317	208	120	95	365	196
DJT31-230	450	315	360	255	120	95	410	215