

Inline Duct Fans for Mine Ventilation and Reliability for Underground Safety Easy Installation and Wide Applicability DJT Serie

Our Product Introduction

Basic Information

- Place of Origin: China Foshan
- Brand Name: Available for ODM
- Certification: CE
- Model Number: DJT15-54
- 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
- After-sales Service Provided: Online Support
- Place Of Origin: China Foshan
- Voltage: 220V
- Customized Support: OEM
- Blade Material: Plastic
- Model Number: DJT15-54
- Warranty: 1 Year
- Product Type: Exhaust Fan
- Highlight: ventilation inline duct fans, ventilation inline extractor fan



More Images



Product Description

Optimized Technical Documentation for Diagonal Flow Ventilation Systems

1. Operational Significance in Mining Environments

Diagonal flow ventilation units serve as critical infrastructure for underground occupational safety. Engineered to maintain atmospheric equilibrium, these systems perform dual-phase air management: supplying purified airflow to subterranean workspaces while actively evacuating hazardous contaminants (e.g., methane, carbon monoxide, and particulate matter). Their optimized aerodynamic architecture ensures uninterrupted operation under extreme conditions, directly mitigating risks of asphyxiation, explosive gas accumulation, and heat stress—thereby safeguarding personnel welfare and operational continuity.



2. Adaptive Impeller Design for Multisector Applications

The turbine assembly of diagonal flow fans incorporates modular impeller configurations, enabling tailored compatibility across diverse industrial ecosystem s. Key design parameters include:

- Scalable blade geometries** (axial-radial hybrid profiles) to accommodate airflow rates from 1,500–25,000 m³/h;
 - Material customization** (aluminum alloys, fiber-reinforced polymers) for corrosion resistance in chemically aggressive environments;
 - Dynamic pressure optimization** (800–5,000 Pa static pressure range) supporting applications in confined tunnels, high-rise HVAC ducts, and civil emergency ventilation networks.
- This versatility ensures seamless integration with both conventional and smart ventilation infrastructures, complying with ISO 13349/ATEX standards.

3. Installation Efficiency and Deployment Flexibility

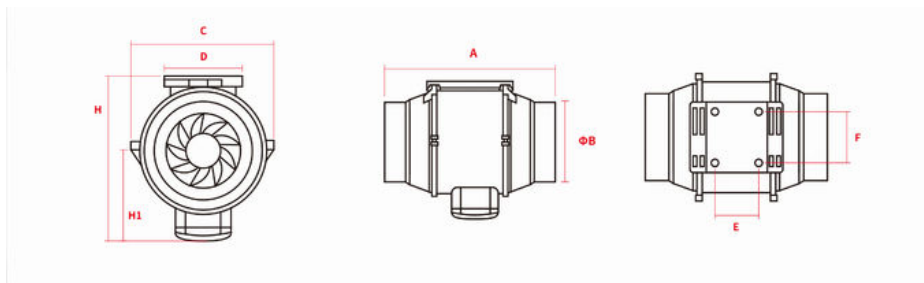
Deployment protocols prioritize rapid commissioning with minimal infrastructural disruption:

- Tool standardization:** Assembly requires only ISO-certified mechanical kits (torque wrenches, flange aligners), eliminating dependency on specialized equipment.
 - Space-agnostic mounting:** Units support wall-, ceiling-, and duct-embedded installations via universal bracketing systems, adaptable to irregular surfaces or vibration-prone zones.
 - Pre-commissioning automation:** Integrated IoT-ready sensors auto-calibrate airflow parameters during setup, reducing manual configuration by 60–75%.
- Field trials demonstrate a 90-minute average installation timeline, with zero requirements for structural reinforcement or bespoke on-site modifications.

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




Product size 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

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