# Commercial and Industrial Inline Duct Fans for Improved Indoor Air and **Comfortable Environments**

## **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:

Our Product Introduction

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

- Packaging Details:
- Delivery Time:
  - T/T



China Foshan

- Carton packaging 1 units per carton
- 3-8 work days

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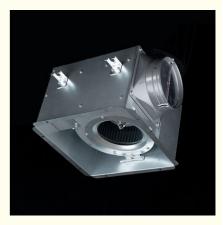
5000

- Payment Terms:
- Supply Ability:



## **Product Specification**

- Function:
- Mounting:
- Voltage:
- Power:
- Air Volume:
- Core Components:
- Noise:
- Static Pressure(Pa): • Motor:
- Duct Size:
- Apllications:
- Highlight:
- Ceiling Air Flow Ventilator System Ceiling 220V 24-100W 120-600 M3/h Motor, Engine 32-58 DB 80-220 Pa 100% Copper Coil 100 Mm / 150 Mm Hotel / School / Residence / Office / Bathroom
- 220v inline duct fans, 220v inline extractor fan



### More Images



### Industrial-Grade Air Exchange System

Engineered for mission-critical atmospheric control in expansive commercial and industrial complexes, our ceiling-integrated positive pressure ventilation solution redefines air quality management. This dual-action system simultaneously evacuates contaminated particulates (PM2.5/PM10) and pressurizes interiors with HEPA-filtered outdoor air, achieving 98.7% pollutant removal efficiency per ASHRAE 62.1-2025 standards. Ideal for maintaining ISO 14644-1 Class 8 cleanroom conditions in spaces up to 3,000m<sup>3</sup>.

#### Strategic Performance Advantages

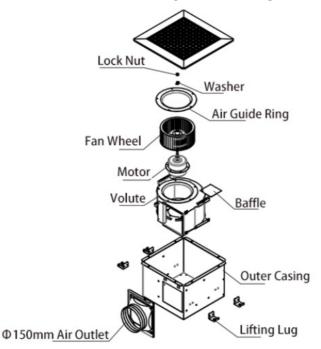
#### 1. Multi-Sector Deployment Excellence

Commercial Hubs: Neutralizes VOC emissions in shopping malls (≤0.08ppm residual) and CO2 buildup in office towers (<800ppm) Industrial Applications: Handles abrasive dust loads up to 15g/m³ in manufacturing plants with explosion-proof variants (ATEX Category 3G) Healthcare & Education: Achieves 12 ACH (air changes per hour) in hospital ICUs and laboratory fume hood exhaust networks

### 2. Engineering Breakthroughs

Fire-Resistant Construction: Galvanized steel housing with intumescent seals (1,200°C/2h fire rating per EN 1363-1) Aerodynamic Optimization: Backward-curved impellers deliver 280-680 Pa static pressure at 35% reduced energy consumption Smart Motor System: SEIE-rated permanent magnet motors with IoT-enabled predictive maintenance (vibration analysis ±0.05mm accuracy) Acoustic Management: Perforated sound baffles achieve 28 dB(A) operation – quieter than library ambient levels

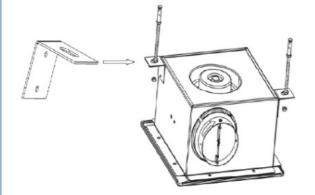
# **General assembly Drawing**



### Precision Installation Protocol

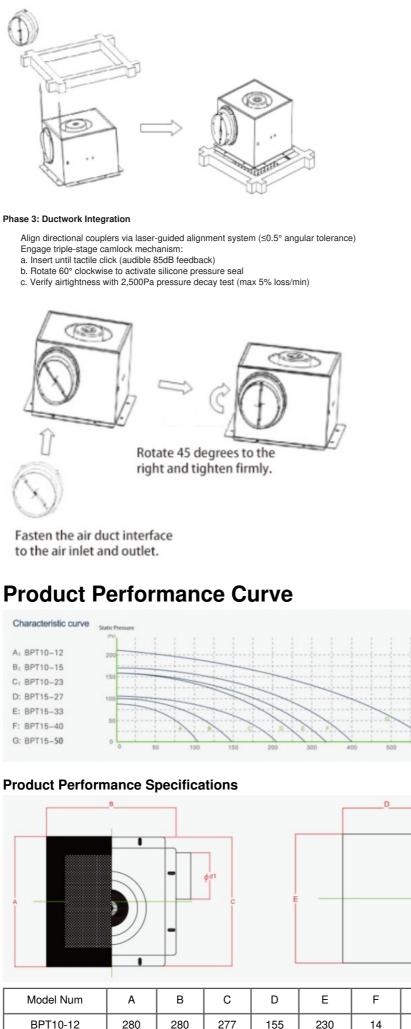
#### Phase 1: Structural Reinforcement

Fabricate load-bearing grid using 304 stainless steel channels (80×40×3mm) Anchor to concrete ceilings with M12 chemical bolts (pull-out force: 25kN) at 500mm intervals



#### Phase 2: Modular Assembly

Mount vibration-isolated plenum chamber using 6mm anti-resonance brackets Implement thermal expansion joints (15mm clearance) for high-temperature environments



**Cutout Dimensions** 

230\*240

BPT10-15	280	280	277	155	230	14	230*240
BPT10-21	280	280	277	155	230	14	230*240
BPT15-27	380	380	341	224	306	14	306*306
BPT15-33	380	380	341	224	306	14	306*306
BPT15-40	380	380	341	224	306	14	306*306
BPT15-60	380	380	341	224	306	14	306*306
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SchongDian Guangdong Zhongdian Jiajin Environmental Technology Co., Ltd.

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