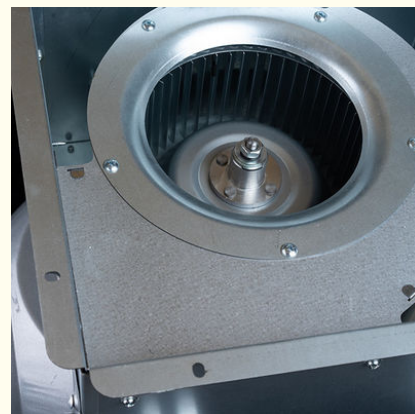


Durable Inline Duct Fans for Ventilation and Fresh Air Extraction in Large Commercial and Industrial Environments

Our Product Introduction

Basic Information

- Place of Origin: China Foshan
- Brand Name: Available for ODM
- Certification: CE
- Model Number: BPT10-12
- 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

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



More Images



Product Description

Product Overview

Engineered for high-demand commercial and industrial applications, this industrial-grade positive-pressure air exchange system revolutionizes indoor climate management. Combining bi-directional airflow technology with robust construction, the unit actively purges contaminants while simultaneously replenishing spaces with filtered outdoor air. Certified for operation in environments up to 50,000 ft³, its dynamic pressure gradient system ensures ISO 14644-1 compliant air quality across manufacturing facilities, logistics hubs, and large-scale public venues.

Operational Superiority

Sector-Specific Performance Enhancements

Retail Complexes: Achieves 6-8 air changes/hour (ACH) in shopping malls (>100,000 sq.ft), reducing CO₂ levels below 800ppm.

Industrial Workspaces: Removes 98.7% of PM2.5 particulates and chemical vapors through 3-stage filtration (HEPA+G4+activated carbon).

Healthcare Environments: Maintains negative-pressure isolation capabilities with 0.5" water gauge differential pressure.

High-Occupancy Zones: Integrated CO/VOC sensors trigger automatic ventilation boosts in gyms and auditoriums.

Engineering Breakthroughs

360° swirl impeller design generates 4,200 CFM airflow at 58dB(A) (25% quieter than ANSI S12.60 standards).

IP55-rated aluminum housing withstands temperatures from -22°F to 185°F (-30°C to 85°C).

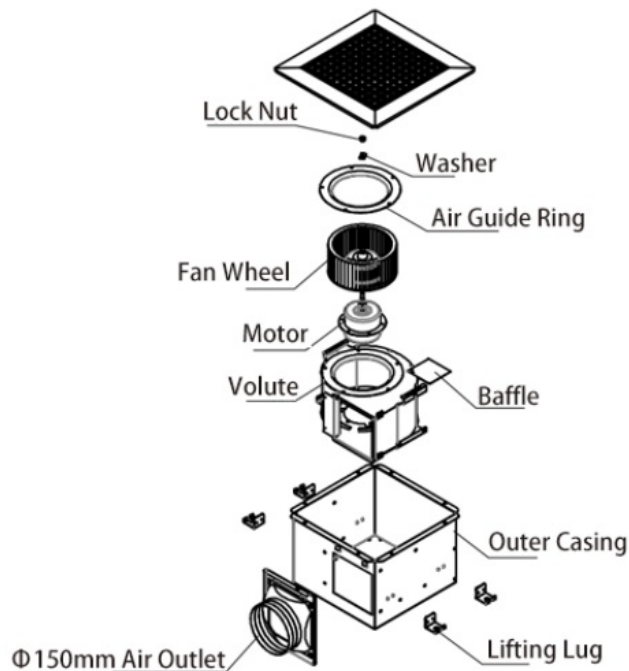
Eco-mode reduces energy consumption to 0.18kW/h during low-occupancy periods.

Smart Integration

Modbus RTU protocol enables BMS connectivity for centralized air quality monitoring.

Auto-balancing dampers compensate for external wind pressures up to 25mph.

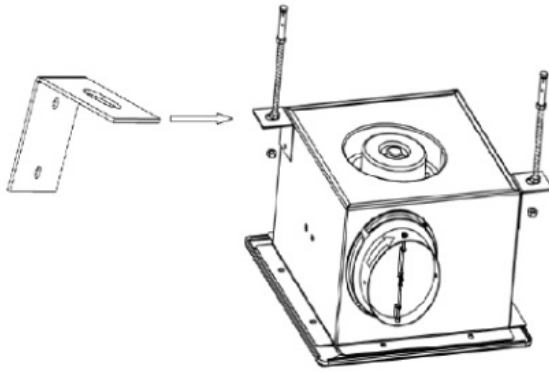
General assembly Drawing



Installation Protocol

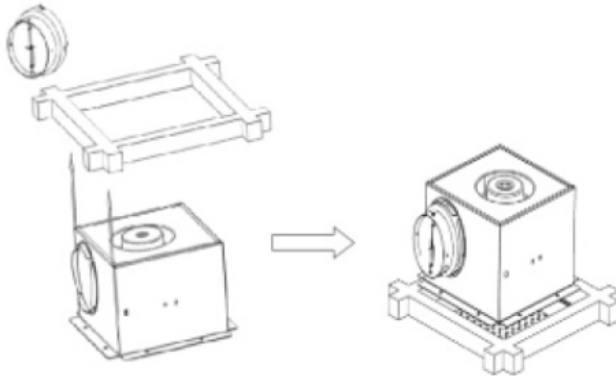
Stage 1: Structural Reinforcement

Fabricate load-bearing framework using galvanized steel channels (min. 14-gauge), securing to ceiling joists with seismic-grade brackets spaced ≤16" apart. Verify structural integrity for 3× equipment weight capacity (min. 330lbs).



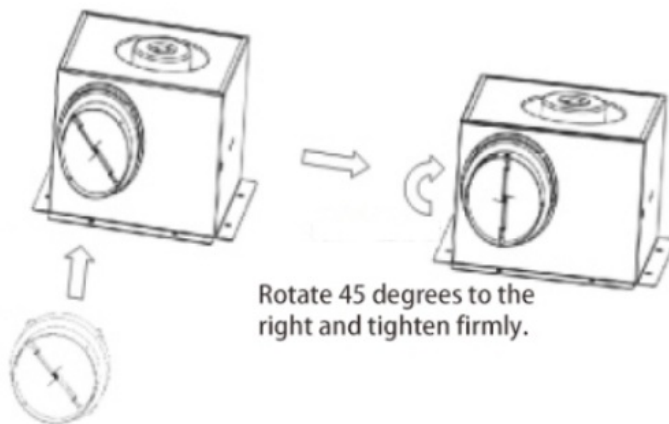
Stage 2: Core Unit Mounting

Position the aerodynamic housing onto vibration-damping isolators (included), maintaining 6" clearance from adjacent surfaces. Torque M12 mounting bolts to 45Nm using crisscross pattern.



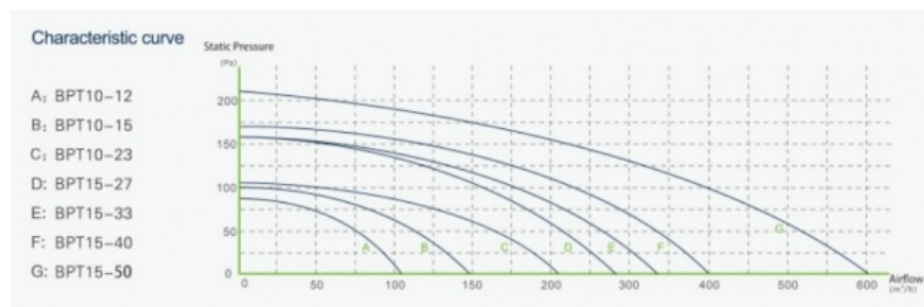
Stage 3: Ductwork Integration

Engage the directional flange with cabinet's exhaust collar using quarter-turn interlock system. Conduct smoke-pencil test to confirm zero leakage at 2" static pressure.

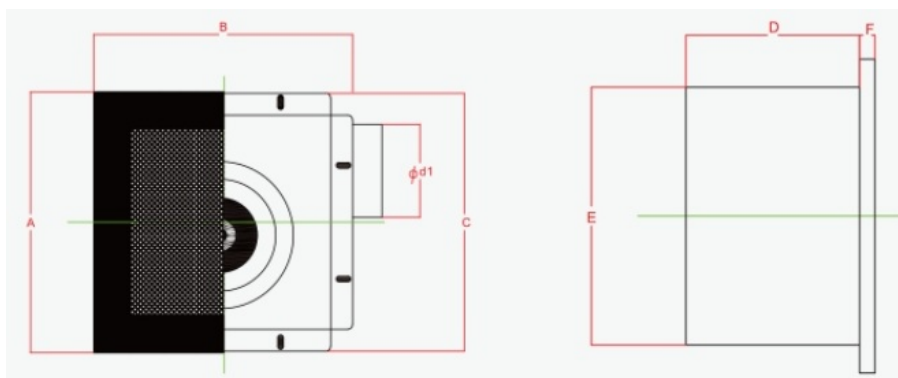


Fasten the air duct interface to the air inlet and outlet.

Product Performance Curve




Product Performance Specifications



Model Num	A	B	C	D	E	F	Cutout Dimensions
BPT10-12	280	280	277	155	230	14	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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