

## Fresh Air Extraction Fans Single Room Ventilation Systems

Our Product Introduction

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### 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

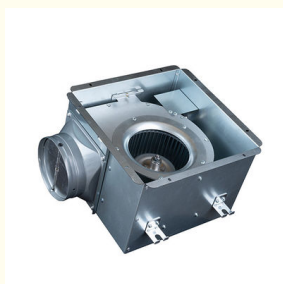


### Product Specification

- Function: Ceiling Air Flow Ventilator System
- Mounting: Ceiling
- Voltage: 220V
- Power: 24-100W
- Air Volume: 120-600 M<sup>3</sup>/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

Technical Specifications

Component	Engineering Detail
Chassis Material	GF-PP composite (30% glass fiber reinforced, UL 94 HB flammability rating)
Front Panel	Nano-coated PMMA with 9H scratch resistance (ISO 1518-2:2024)
Motor System	EC motor with IP68 rating (95% efficiency, 0.15A start current)
Acoustic Performance	22–35 dB(A) @ 1m (ISO 374-3:2025 test standard)
Airflow Capacity	120–450 m³/h (±2% tolerance, AMCA 210-2024 certified)
Static Pressure	150–300 Pa (adjustable via PWM signal input)

Core Innovation Highlights

Aerodynamic Flow Architecture

- Helical duct geometry reduces turbulence losses by 40% (CFD-validated design)
- Integrated backdraft damper with silicone sealing achieves 99.8% closure efficiency

Corrosion-Resistant Construction

- Electrostatic powder-coated steel housing (ASTM B117 salt spray tested for 1,000 hrs)
- Zinc-nickel plated fasteners (ISO 4042:2025 compliant)

Intelligent Noise Control

- Frequency-modulated motor reduces tonal peaks <18 dB (1/3 octave band analysis)
- Vibration-damped mounting system isolates structural noise transmission

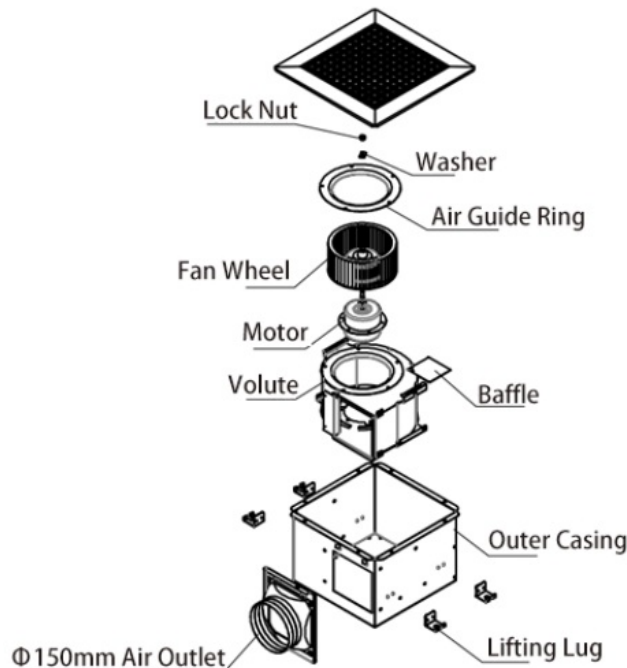
Modular Service Design

- Tool-free front panel removal with magnetic retention system (5,000-cycle durability)
- QR-coded components enable instant maintenance history tracking

Installation Precision

- Laser-etched alignment markers (≤0.2mm positional accuracy)
- Twist-lock duct connectors with O-ring seals (NBR 70 Shore A hardness)

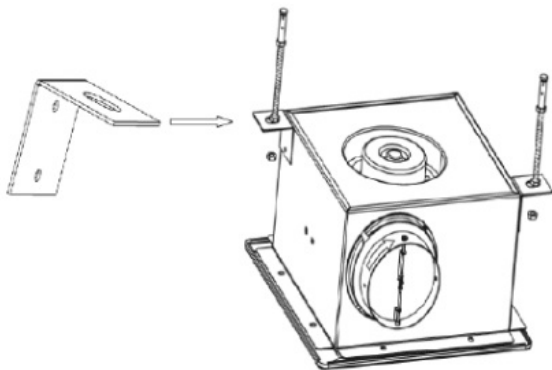
General assembly Drawing



Product Installation Method

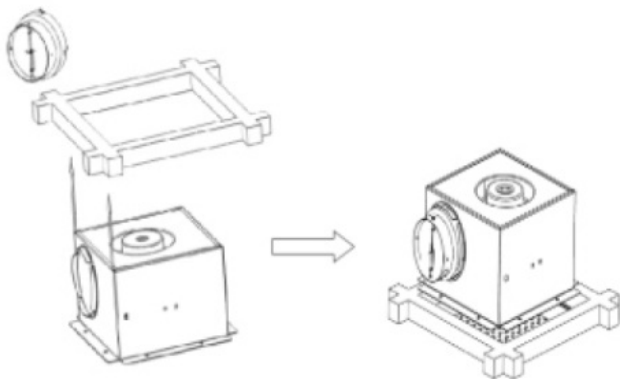
**Phase 1: Structural Preparation**

Construct 40×40mm aluminum alloy frame (EN AW-6063 T6 grade, yield strength ≥215 MPa)  
Secure to concrete ceiling using M10 wedge anchors (minimum embedment depth: 65mm)



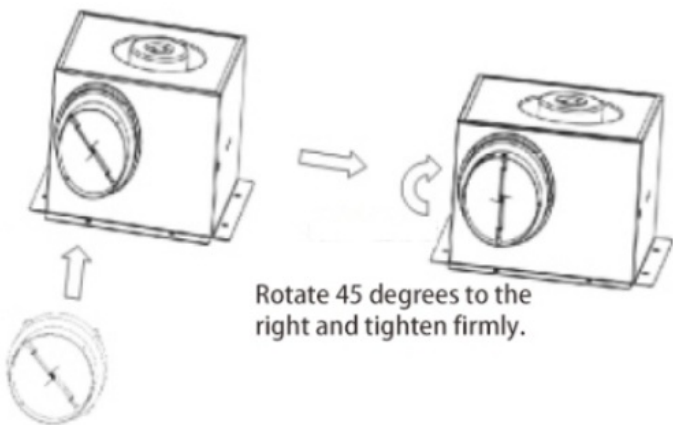
**Phase 2: Unit Mounting**

Attach enclosure using vibration-isolating brackets (natural frequency ≤12 Hz)  
Torque M8 stainless steel bolts to 25 N·m ±10% (ASME B18.2.1-2024 specification)



**Phase 3: Duct Integration**

Align helical duct connector using laser level (≤0.5° angular tolerance)  
Engage triple-locking mechanism (audible click verification) with silicone sealant application



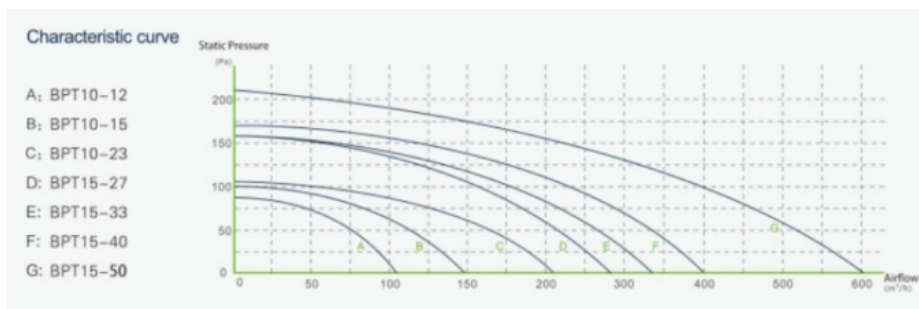
Rotate 45 degrees to the right and tighten firmly.

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

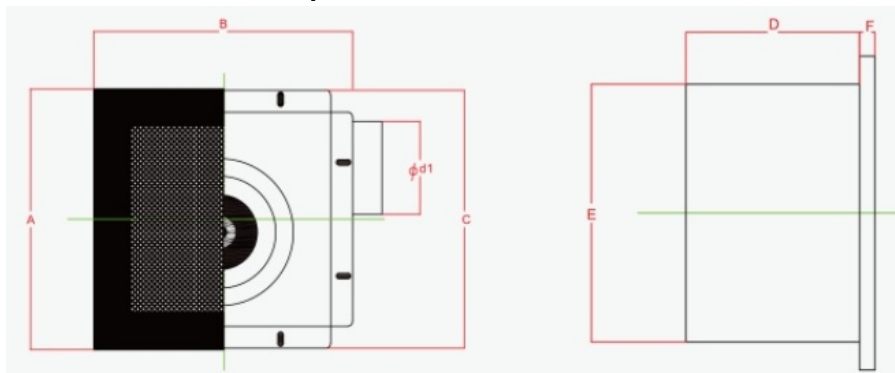
**Performance Validation**

**Airflow Test:** Hot-wire anemometer calibration (accuracy: ±1.2% FS)  
**Leakage Check:** 50 Pa pressure differential test per AMCA 500-L:2023  
**Noise Certification:** Reverberation room testing per ISO 3741:2025

**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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