Efficiently Remove Humidity with Our Top-of-the-Line Inline Duct Fans for Improved Air in Bathrooms

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T
- Supply Ability:



Product Specification

- Type:
- Applicable Industries:
- Mounting:
- Motor:
- Noise:
- Voltage (V):
- Air Flow:
- MOQ:
- Feature:
- Ceiling Exhaust Duct Blower Fan Exhaust Ventilation Ceiling Mounted Capacitor Copper Wire Motor MAX 45 DB 220V 120-500 M³/h

Carton packaging 1 units per carton

China Foshan

CE

1

5000

BPT10-12

Contact Us

3-8 work days

Available for ODM

- 30 Set
 - Low Noise, High Air Pressure, High Quality Motor



More Images





Our Product Introduction

1. Introduction

Advanced humidity control systems that expel moist air play a crucial role in maintaining comfortable and healthy indoor enviro nments. These systems are designed to remove excess moisture from the air, which can prevent issues such as mold growth, structural damage, and discomfort for occupants.

2. Working Principles

Ventilation - based expulsion: Some systems rely on mechanical ventilation. They draw in fresh, drier outdoor air and expel the moist indoor air. For example, exhaust fans in bathrooms and kitchens work on this principle. When turned on, they create a negative pressure that forces the humid air out through ducts, replacing it with less - humid outdoor air. **Dehumidification and expulsion**: Other advanced systems first dehumidify the air using refrigeration or desiccant methods. In refrigeration - based dehumidifiers, the moist air is cooled below its dew point, causing the water vapor to condense into liquid water. The dehumidified air is then either recirculated indoors or expelled, depending on the system design. Desiccant dehumidifiers use moisture - absorbing materials (desiccants) to remove water vapor from the air. After the desiccant is saturated, it can be regenerated, and the removed moisture can be expelled from the system.

3. Key Components

Fans and blowers: These are essential for moving the air through the system. High - efficiency fans can ensure proper air circulation and expulsion of moist air. For instance, centrifugal fans are often used in large - scale humidity control systems due to their ability to generate high pressure and move large volumes of air.

Ductwork: It is used to transport the moist air from the indoor space to the outside. Well - designed ductwork minimizes air leakage and pressure losses, ensuring efficient expulsion of the air.

Dehumidification elements: As mentioned earlier, refrigeration coils in refrigeration - based dehumidifiers or desiccant wheels in desiccant dehumidifiers are key components for removing moisture from the air before expulsion.

4. Applications

Residential buildings: In homes, these systems can be used in basements, bathrooms, and kitchens. Basements are prone to high humidity levels, which can lead to musty odors and mold growth. An advanced humidity control system can expel the moist air and keep the basement dry.

Commercial buildings: Offices, hospitals, and data centers require precise humidity control. In data centers, high humidity can damage electronic equipment. Humidity control systems that expel moist air help maintain the optimal humidity levels for the proper functioning of the equipment.

Industrial facilities: Industries such as food processing, pharmaceuticals, and textiles need to control humidity to ensure product quality. Moisture can affect the chemical and physical properties of products, and advanced humidity control systems are used to expel the moist air and maintain a stable production environment.

5. Advantages

Improved indoor air quality: By expelling moist air, these systems reduce the risk of mold, mildew, and dust mites, which are common indoor air pollutants. This leads to a healthier living and working environment.

Enhanced energy efficiency: Some advanced systems are designed to operate in an energy - efficient manner. For example, they can adjust the ventilation rate based on the actual humidity levels, reducing energy consumption compared to continuous - operation systems.

Protection of building structures: High humidity can cause damage to building materials such as wood, drywall, and insulation. By controlling humidity, these systems help extend the lifespan of the building structure.

Product Performance Curve





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Model Num	A	В	с	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
	i		0.44	224	306	14	306*306
BPT15-40	380	380	341	224	500	'*	000 000

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