FANTECH 10-1/4" x 6" x 13" 120VAC Exterior Mount Exhaust Fan

FANTECH 10-1/4" x 6" x 13" 120VAC Exterior Mount Exhaust Fan User Manual

Model: 10-1/4" x 6" x 13" 120VAC Exterior Mount Exhaust Fan

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your FANTECH Exterior Mount Exhaust Fan. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Before servicing or cleaning the unit, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally.
- Do not use this fan with any solid-state speed control device unless specifically approved for use with this model.
- This unit is designed for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- Always wear safety glasses and gloves during installation and maintenance.

3. PRODUCT OVERVIEW AND COMPONENTS

The FANTECH Exterior Mount Exhaust Fan is designed to remove excess heat and odors from residential kitchen hoods by mounting externally on a sidewall or gable end of a roof. This design helps to keep operational noise away from living areas.

Figure 1: FANTECH Exterior Mount Exhaust Fan. This image shows the fan unit, which is a rectangular, white, powder-coated galvanized steel housing with ventilation grilles on one end and a circular duct connection on the bottom.

Key Components:

- **Housing:** Galvanized steel with a paintable baked powder-coated finish.
- **Motor:** Integrated within the housing, designed for 120VAC operation.
- **Duct Connection:** Circular opening for connecting to a 4-inch diameter duct.
- **Ventilation Grilles:** Located on the front face for air exhaust.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Consult a qualified professional if you are unsure about any steps.

1. **Site Selection:** Choose a suitable exterior sidewall or gable end of the roof for mounting. Ensure the location allows for proper ducting from the kitchen hood and does not obstruct other building features.

2. **Mounting:** Securely attach the fan housing to the chosen exterior surface using appropriate fasteners. Ensure the unit is level and stable.

3. **Duct Connection:** Connect a 4-inch diameter duct from the kitchen hood to the fan's duct connection point. Ensure all ductwork is sealed to prevent air leaks and maintain efficiency.

4. **Electrical Wiring:** All electrical connections must be performed by a licensed electrician. Connect the fan to a 120VAC, 60Hz power supply. Refer to local electrical codes and the fan's wiring diagram (not provided in this manual, typically found on the unit or in a separate wiring guide). The fan operates at 0.84 Amps.

5. **Speed Control (Optional):** If using a speed control, ensure it is compatible with the fan (e.g., FANTECH 1DGV1). Follow the speed control manufacturer's instructions for installation.

6. **Final Inspection:** Before restoring power, visually inspect all connections, mounting, and ductwork to ensure everything is secure and correctly installed.

5. OPERATING INSTRUCTIONS

The FANTECH Exterior Mount Exhaust Fan is designed for continuous or intermittent operation to remove air from your kitchen area.

- **Power On/Off:** Once properly installed and wired, the fan will operate when power is supplied. Use a dedicated switch or the compatible speed control to turn the unit on or off.
- **Speed Adjustment:** If a compatible speed control is installed, adjust the fan speed as needed to achieve the desired airflow for effective ventilation.
- **Optimal Use:** For best results, operate the fan during and after cooking to effectively remove smoke, grease, and odors.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your exhaust fan.

1. **Power Disconnection:** Always disconnect power to the unit at the service panel before performing any maintenance.

2. **Exterior Cleaning:** Periodically clean the exterior housing with a damp cloth to remove dirt and debris. Avoid abrasive cleaners. The powder-coated finish is paintable if desired.

3. **Grille Cleaning:** Inspect and clean the ventilation grilles to ensure they are free from obstructions.

4. **Ductwork Inspection:** Annually inspect the ductwork for any blockages, leaks, or damage. Ensure proper airflow.

5. **Motor Inspection:** The motor is designed for maintenance-free operation. However, if unusual noises or vibrations occur, consult a qualified technician.

7. TROUBLESHOOTING

If you encounter issues with your FANTECH exhaust fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply. Faulty wiring. Defective switch/speed control.	Check circuit breaker/fuse. Verify electrical connections (consult electrician). Test or replace switch/speed control.
Reduced airflow.	Ductwork obstruction. Dirty grilles. Incorrect duct size.	Inspect and clear ductwork. Clean grilles. Ensure 4-inch duct is used and properly sealed.
Excessive noise/vibration.	Loose mounting. Obstruction in fan. Motor issue.	Tighten mounting fasteners. Inspect fan for debris (with power off). Contact customer support if motor noise persists.

8. SPECIFICATIONS

Feature	Detail
Item	Exhaust Ventilator
Type	Exterior Mount
Fits Duct Diameter	4 inches
CFM @ 0.100-In. SP	180

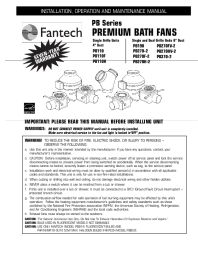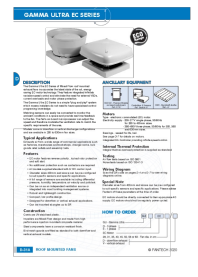| Feature	Detail
CFM @ 0.200-In. SP	172
CFM @ 0.400-In. SP	154
CFM @ 0.600-In. SP	136
CFM @ 0.800-In. SP	118
Fan Voltage	120VAC
Frequency	60 Hz
Phase	1
Amps	0.84
Max. Inlet Temp.	140°F (60°C)
Housing Height	13 inches
Housing Width	10-1/4 inches
Housing Depth	6 inches
Housing Material	Galvanized Steel
Housing Finish	Powder Coated (Paintable)
Mounting Location	Wall
Speed Control (Compatible)	1DGV1
Agency Compliance	UL/CUL, CSA Certified, HVI Certified
Product Dimensions (L x W x H)	13" x 6" x 11.4"
Wattage	125 watts
Cooling Method	Forced Air

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact FANTECH customer support directly. Keep your proof of purchase for warranty claims.
For technical assistance or further inquiries, please visit the official FANTECH website or contact their customer service department. Contact details are typically available on the product packaging or the manufacturer's website.

Related Documents - 10-1/4" x 6" x 13" 120VAC Exterior Mount Exhaust Fan

[Fantech Response Radiance RESP3IN1WH 3-in-1 Bathroom Heater, Exhaust Fan & Light - Installation & Maintenance Manual](#)

Comprehensive installation, maintenance, and operation guide for the Fantech Response Radiance RESP3IN1WH 3-in-1 bathroom heater, exhaust fan, and light. Includes safety instructions, specifications, diagrams, and troubleshooting.

[Fantech FKD/KD Series Inline Centrifugal Fans Installation and Operation Manual](#)

Comprehensive guide for the installation, operation, and safety precautions for Fantech FKD/KD Series inline centrifugal fans. Includes multilingual instructions, dimensions, wiring diagrams, and warranty information.

[Fantech PB Series Premium Bath Fans Installation, Operation, and Maintenance Manual](#)

This manual provides detailed instructions for the installation, operation, and maintenance of Fantech PB Series Premium Bath Fans, including single and dual grille units with 4" and 6" duct connections. It covers safety warnings, electrical connections, installation steps, troubleshooting, and warranty information.

[Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator Installation and Operation Manual](#)

This manual provides comprehensive instructions for the installation and operation of the Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator. It includes essential safety information, step-by-step installation guides, sequence of operation, maintenance recommendations, troubleshooting tips, and warranty details.

[FANTECH PAC4 Portable Cooler Quick Start Guide - Features and Usage](#)

Comprehensive quick start guide for the FANTECH PAC4 Portable Cooler. Learn about its technical specifications, product features, how to operate, and charge the device efficiently.

[Fantech Gamma Ultra EC Series Roof Mounted Exhaust Fans - Technical Overview](#)

Comprehensive technical details for Fantech's Gamma Ultra EC Series of energy-efficient, mixed-flow roof-mounted exhaust fans. This document covers product features, applications, construction, technical specifications, and performance data for various models.