

## FANTECH FG6

# Fantech FG6 Inline Exhaust Fan User Manual

Model: FG6

## 1. INTRODUCTION

Welcome to the Fantech FG6 Inline Exhaust Fan user manual. This document provides essential information for the safe and efficient installation, operation, and maintenance of your Fantech FG6 inline centrifugal fan. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Fantech FG6 is a high-performance inline centrifugal fan designed for various residential and commercial ventilation applications, including kitchen range hoods, bathroom exhaust, duct air boosting, and commercial dryer or steam exhaust systems. It features a robust galvanized steel construction and is engineered for efficient air movement.

## 2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the unit or injury to personnel, observe the following safety precautions:

- **Disconnect Power:** Always disconnect power to the fan at the circuit breaker before performing any installation, maintenance, or cleaning.
- **Qualified Personnel:** Installation and electrical wiring must be performed by qualified and licensed personnel in accordance with all applicable local and national codes.
- **Proper Grounding:** Ensure the fan is properly grounded to prevent electrical shock.
- **Avoid Flammable Materials:** Do not install or operate the fan near flammable or explosive materials, gases, or vapors.
- **Secure Mounting:** The fan must be securely mounted to a stable structure to prevent vibration and potential dislodgement.
- **Ductwork Integrity:** Ensure all duct connections are sealed to prevent air leakage and maintain system efficiency.
- **Temperature Limits:** Do not expose the fan to airstream temperatures exceeding 140°F (60°C).
- **Intended Use:** Use this fan only for its intended purpose as described in this manual.

The Fantech FG6 fan is tested and approved by UL and CSA, ensuring compliance with recognized safety standards.

### 3. PACKAGE CONTENTS

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Verify that all items are present and undamaged upon unpacking:

- Fantech FG6 Inline Exhaust Fan
- Power Cord
- User Manual (this document)

If any components are missing or damaged, contact your supplier immediately.

### 4. SETUP AND INSTALLATION

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#### 4.1 Pre-Installation Checklist

- Ensure the fan is undamaged.
- Confirm you have the necessary tools and mounting hardware (not included).
- Verify that the ductwork is 6 inches in diameter.
- Ensure the installation location provides adequate space for the fan and future maintenance access.

#### 4.2 Mounting the Fan

The Fantech FG6 fan is designed for inline installation within a 6-inch duct system. It can be mounted in any orientation.

1. **Select Location:** Choose a location that allows for secure mounting and easy access for maintenance. Consider minimizing vibration and noise transmission by selecting a sturdy mounting surface.
2. **Secure Mounting:** Use appropriate mounting hardware (e.g., straps, brackets, screws – not included) to securely fasten the fan to a stable structure.
3. **Duct Connection:** Connect standard 6-inch spiral flexible ducts or rigid duct systems to both the inlet and outlet of the fan. Ensure all connections are sealed using duct tape or clamps to prevent air leakage and optimize performance.

#### 4.3 Electrical Connection

**WARNING: All electrical work must be performed by a qualified electrician and comply with all local and national electrical codes. Disconnect power at the circuit breaker before wiring.**

1. Connect the fan's power cord to a suitable electrical supply.
2. Ensure proper grounding of the fan to prevent electrical hazards.
3. Refer to the wiring diagram provided on the fan's label or in this manual for specific connections.



*Image: Fantech FG6 Inline Exhaust Fan. This image displays the galvanized steel construction of the fan, highlighting its 6-inch duct connections and the integrated electrical box. An AMCA Certified Ratings label is visible on the fan housing, indicating its air performance certification.*

## 5. OPERATING INSTRUCTIONS

The Fantech FG6 fan operates by drawing air through its inlet and expelling it through its outlet, creating airflow within your duct system.

### 5.1 Powering On/Off

Once installed and wired correctly, the fan can be controlled via an external switch (not included) connected to its power supply.

- To turn on the fan, activate the connected switch.
- To turn off the fan, deactivate the switch.

### 5.2 Airflow Direction

The fan is designed to move air in a specific direction. An arrow indicating the intended airflow direction is typically located on the fan housing. Ensure the fan is installed to move air in the desired direction for your ventilation system.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Fantech FG6 fan.

### 6.1 Cleaning

**WARNING:** Always disconnect power to the fan at the circuit breaker before performing any maintenance or cleaning.

- **Frequency:** Inspect the fan and impeller blades every 3-6 months, or more frequently in dusty or greasy environments.
- **Procedure:**
  1. Disconnect power to the fan at the circuit breaker.
  2. Remove any access panels or disconnect ductwork as needed to access the impeller.
  3. Carefully clean the impeller blades and fan housing using a soft brush or cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the fan's finish or components.
  4. Ensure no debris, dust, or grease obstructs the fan's operation.
  5. Reassemble any removed parts and reconnect ductwork.
  6. Restore power to the fan.

The Fantech FG6 fan features permanently lubricated sealed ball bearings, requiring no additional lubrication throughout its lifespan.

### 7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Fan does not start	No power supply Faulty wiring Thermal overload tripped	Check circuit breaker and power switch Verify electrical connections (consult electrician) Allow fan to cool; check for obstructions
Reduced airflow	Blocked ductwork Dirty impeller blades Air leaks in duct system	Inspect and clear ducts Clean impeller blades (see Maintenance) Seal all duct connections
Excessive noise	Loose mounting Debris in fan Duct vibration Motor issue	Tighten mounting hardware Clean fan (see Maintenance) Insulate ducts or use flexible connectors Contact Fantech support
Vibration	Unbalanced impeller Loose mounting Improper installation	Clean impeller for debris Ensure secure mounting Re-check installation steps

If issues persist after troubleshooting, contact Fantech customer support or a qualified technician for assistance.

### 8. SPECIFICATIONS

Model	FG6
Brand	Fantech
Air Flow Capacity	257 Cubic Feet Per Minute (CFM)
Duct Size	6 inches (Round)
Material	Galvanized Steel
Product Dimensions (L x W x H)	16.5 x 16.2 x 11.8 inches
Item Weight	9.21 pounds
Power Source	Corded Electric
Certification	UL, CSA
Operating Temperature	Up to 140°F (60°C)
Motor Type	External rotor motor, Class B insulation, automatic reset thermal overload protection, permanently lubricated sealed ball bearings

## 9. WARRANTY AND SUPPORT

For detailed warranty information regarding your Fantech FG6 Inline Exhaust Fan, please refer to the warranty card or documentation included with your original purchase. You may also visit the official Fantech website for the most current warranty terms and conditions.


For technical support, service inquiries, or to purchase replacement parts, please contact Fantech customer service directly. Ensure you have your product model number (FG6) and purchase date available when contacting support.

Fantech Official Website: [www.fantech.net](http://www.fantech.net)



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### Related Documents - FG6

	<p><a href="#">Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator Installation and Operation Manual</a></p> <p>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.</p>
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## Fantech Product Catalog: Comprehensive Ventilation Solutions

Discover Fantech's extensive product catalog featuring a wide range of ventilation solutions including inline fans, radon mitigation systems, bath fans, dryer exhaust fans, fresh air appliances, filtration systems, and kitchen ventilation. Enhance indoor air quality with Fantech's innovative and reliable products.

Fantech FG Series Inline Centrifugal Fan Installation and Operation Manual

Installation and operation guide for Fantech FG Series inline centrifugal duct fans. Includes safety warnings, dimensions, installation procedures, wiring diagrams, troubleshooting, maintenance, and warranty information.

[Fantech FSD Series Fan Installation Instructions and Manual](#)

Comprehensive installation instructions, safety warnings, mounting illustrations, dimensional data, wiring schematics, and warranty information for Fantech FSD Series inline duct fans, including models FSD 18, FSD 20, FSD 22, and FSD 26.

[Fantech FRD Series Inline Centrifugal Fans Installation and Operation Manual](#)

Installation and operation guide for Fantech FRD Series inline centrifugal fans. Covers parts, safety, mounting, dimensions, wiring, and warranty. Features AMCA and UL/cULus certifications.

## Fantech Minitube In-Line Duct Mounted Fans - Technical Specifications

Explore the Fantech Minitube series of in-line duct mounted axial fans. This document provides detailed technical specifications, dimensions, performance data, and available accessories for commercial and industrial ventilation applications.