

FANTECH 98506

Fantech 98506 PRO Plus Exhaust Fan User Manual

Quiet, Energy-Efficient Ventilation for Bathrooms

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Fantech 98506 PRO Plus Exhaust Fan. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The Fantech 98506 PRO Plus is a high-performance exhaust fan designed for quiet and energy-efficient ventilation in bathrooms, powder rooms, and other areas up to 130 sq. ft. It features advanced motion and humidity sensors, a built-in backdraft damper, and a high-efficiency motor.

SAFETY INFORMATION

WARNING:

- Always disconnect power before servicing or cleaning the unit.
- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not use this fan with any solid-state speed control device.
- Ensure proper grounding to reduce the risk of electric shock.
- This fan is for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Fantech 98506 PRO Plus Exhaust Fan unit
- Sensor Grille
- Adjustable 12-24" Bar Hanger
- Installation Hardware (e.g., screws, wire nuts)

If any parts are missing or damaged, contact Fantech customer support immediately.

SETUP AND INSTALLATION

The Fantech 98506 PRO Plus is designed for surface mount installation and uses a 6-inch flexible duct.

Pre-Installation Checklist:

- Ensure the installation area is clear and accessible.
- Confirm power supply is 120 Volts AC.
- Gather necessary tools: screwdriver, wire strippers, drill, measuring tape, utility knife, safety glasses, gloves.
- Verify ductwork is ready for a 6-inch connection.

Installation Steps:

1. **Prepare the Opening:** Create an appropriate opening in the ceiling or wall for the fan housing. Refer to the fan's specific dimensions provided in the installation guide that accompanies the product.
2. **Mount the Housing:** Use the adjustable 12-24" bar hangers to securely mount the fan housing between joists or studs. Ensure the housing is level.
3. **Connect Ductwork:** Attach the 6-inch flexible duct to the fan's duct collar. Secure with a duct clamp (not included). Ensure the duct run is as straight and short as possible for optimal performance.
4. **Electrical Wiring:**
 - Turn off power at the circuit breaker before wiring.
 - Remove the electrical access plate on the fan housing.
 - Connect the household wiring to the fan's wiring according to the wiring diagram provided with the unit (typically black to black, white to white, green/bare to ground).
 - Secure all connections with wire nuts.
 - Replace the electrical access plate.
5. **Install Grille:** Once the fan housing and wiring are complete, attach the sensor grille to the fan housing. The grille typically snaps into place or is secured with small screws.



Image: The Fantech 98506 PRO Plus Exhaust Fan showing the main unit, duct connection, and the white sensor grille. This view illustrates the components involved in the surface mount installation.

OPERATING INSTRUCTIONS

The Fantech 98506 PRO Plus Exhaust Fan is designed for automatic and manual operation, featuring integrated motion and humidity sensors.

Airflow Settings:

The fan offers four adjustable airflow settings: 80, 90, 110, and 140 cubic feet per minute (cfm). These settings are typically adjusted via a switch or dial located on the fan unit or sensor grille. Consult the specific wiring diagram for details on how to select the desired CFM setting during installation or initial setup.

Sensor Operation:

- **Motion Sensor:** The fan will activate automatically when motion is detected in the room. It will continue to run for a set period after motion ceases (this duration is often adjustable, refer to specific sensor instructions).
- **Humidity Sensor:** The fan will activate automatically when the humidity level in the room exceeds a pre-set threshold. It will continue to run until the humidity level drops below the threshold. The

sensitivity of the humidity sensor may be adjustable.

For optimal performance, ensure the sensors are not obstructed and are positioned to effectively monitor the room conditions.

MAINTENANCE

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

Cleaning the Grille and Fan Blades:

1. **Disconnect Power:** Always turn off power to the fan at the circuit breaker before cleaning.
2. **Remove Grille:** Carefully remove the sensor grille from the fan housing.
3. **Clean Grille:** Wash the grille with mild soap and water. Rinse thoroughly and allow to dry completely before reinstallation.
4. **Clean Fan Blades:** Use a soft cloth or brush to gently wipe dust and debris from the fan blades and interior of the housing. A vacuum cleaner with a brush attachment can also be used. Do not use abrasive cleaners or solvents.
5. **Reinstall Grille:** Once clean and dry, reattach the grille to the fan housing.
6. **Restore Power:** Turn power back on at the circuit breaker.

Frequency: Clean the grille and fan blades at least once every six months, or more frequently in dusty environments.

TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Fan does not turn on.	No power to the unit. Circuit breaker tripped. Loose wiring connection. Sensor malfunction.	Check power supply. Reset circuit breaker. Verify wiring connections (with power off). Contact Fantech support if sensors are suspected.
Fan is noisy.	Fan blades are dirty. Loose mounting. Obstruction in ductwork. Motor issue.	Clean fan blades. Ensure fan housing is securely mounted. Check ductwork for blockages. Contact Fantech support.
Fan runs continuously.	Humidity sensor setting too low. Motion sensor constantly triggered. Wiring issue.	Adjust humidity sensor threshold. Ensure no constant motion in sensor's field of view. Verify wiring.
Poor ventilation performance.	Ductwork obstruction or leak. Incorrect CFM setting. Fan blades are dirty.	Check ductwork for blockages or leaks. Verify CFM setting is appropriate for room size. Clean fan blades.

If the problem persists after attempting these solutions, please contact Fantech customer support.

SPECIFICATIONS

Attribute	Value
Model Number	98506
Brand	FANTECH
Air Flow Capacity	140 CFM (adjustable to 80, 90, 110 CFM)
Duct Size	6 inches
Voltage	120 Volts AC
Wattage	26 watts
Sones Rating	Less than 0.5 Sones
Sensors	Motion and Humidity
Mounting Type	Surface Mount (with adjustable 12-24" bar hanger)
Certifications	ETL Listed, ENERGY STAR, HVI Qualified, California Title 24 Listed
Recommended Room Size	Up to 130 sq. ft.
Dimensions (Approx. Package)	18.1 x 14.68 x 10.24 inches
Weight (Approx. Package)	14 Pounds

WARRANTY INFORMATION



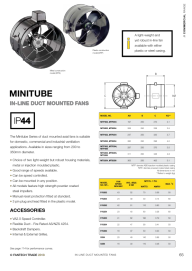


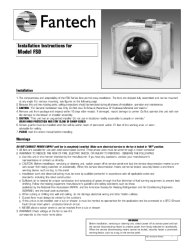
Fantech products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Fantech website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty inquiries, please contact Fantech customer support:

- **Website:** www.fantech.net
- **Phone:** Refer to the contact information on the Fantech website or product packaging.

When contacting support, please have your model number (98506) and purchase date available.

	<p>Fantech DEDPV-705 Dryer Exhaust Duct Power Ventilator Installation and Operation Manual</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>
	<p>Fantech PB Series Premium Bath Fans Installation, Operation, and Maintenance Manual</p> <p>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.</p>
	<p>Fantech Minitube In-Line Duct Mounted Fans - Technical Specifications</p> <p>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.</p>
	<p>Fantech Product Catalog: Comprehensive Ventilation Solutions</p> <p>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.</p>
	<p>Fantech Response Radiance RESP3IN1WH 3-in-1 Bathroom Heater, Exhaust Fan & Light - Installation & Maintenance Manual</p> <p>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.</p>
	<p>Fantech FSD Series Fan Installation Instructions and Manual</p> <p>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.</p>