

Panasonic FV-0510VS1

Panasonic WhisperValue DC Bathroom Exhaust Fan User Manual

Model: FV-0510VS1

Brand: Panasonic

[Introduction](#) [Safety Information](#) [Setup & Installation](#) [Operating](#)
[Instructions](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

The Panasonic WhisperValue DC Bathroom Exhaust Fan (Model FV-0510VS1) is engineered to provide superior ventilation and air purification with quiet operation. Featuring a revolutionary ECM motor and intelligent SmartFlow technology, this fan automatically adjusts speed to deliver optimal CFM output, ensuring efficient air movement even in complex duct runs. Its ultra-slim profile and versatile installation options make it suitable for various residential applications.



Figure 1.1: Panasonic WhisperValue DC Bathroom Exhaust Fan, showing the main unit with grille and duct connection.

2. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **WARNING:** To reduce the risk of fire, electric shock, or injury to persons, observe the following:
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- Do not use this fan with any solid-state speed control device.
- This unit is UL listed for ceiling or wall mount when GFCI protected.

3. SETUP & INSTALLATION

The Panasonic WhisperValue DC fan is designed for straightforward installation in various settings, including ceilings and walls. Its slim profile and unique L-shaped bracket simplify the process.

3.1 Pre-Installation Checks

- Ensure power is disconnected at the circuit breaker before beginning any installation.

- Verify that the installation location provides adequate space for the fan unit (housing depth of 3-3/8 inches).
- Confirm that the ductwork is ready for connection to a 4-inch oval duct.

3.2 Installation Steps

1. **Prepare Opening:** Create an appropriate opening in the ceiling or wall. The fan's compact design allows for installation in tight spaces.
2. **Mounting the Fan:** Utilize the unique L-shaped bracket for secure mounting. This bracket can be positioned to either the left or right side stud for optimal fan placement. Secure the fan housing to the joists or studs using appropriate fasteners.
3. **Duct Connection:** Connect the 4-inch oval ductwork to the fan's exhaust port. Ensure a tight, sealed connection to prevent air leakage.
4. **Electrical Wiring:** Connect the electrical wiring according to local codes and the provided wiring diagram. Ensure all connections are secure and properly insulated. This fan requires a 120V power source.
5. **Install Grille:** Once the fan is securely mounted and wired, attach the decorative grille to the fan housing.

EASY TO INSTALL:

Unique
L-Shaped
bracket
simplifies
installation and
provides strong
support

Panasonic



Figure 3.1: Illustration of the unique L-shaped bracket that simplifies installation and provides strong support for the fan unit.



Figure 3.2: Key dimensions of the fan unit, including the 3-3/8 inch housing depth, crucial for fitting into tight spaces.

For detailed installation instructions, please refer to the official [Installation Manual \(PDF\)](#).

4. OPERATING INSTRUCTIONS

The Panasonic WhisperValue DC fan offers advanced features for optimal performance and energy efficiency.

4.1 Pick-A-Flow Airflow Selector

This fan features a built-in Pick-A-Flow airflow selector, allowing you to choose your desired airflow (CFM) with a simple flip of a switch located on the unit. This enables customization based on room size and ventilation needs.

- **50 CFM:** Ideal for smaller bathrooms or continuous low-level ventilation.
- **80 CFM:** Suitable for medium-sized bathrooms, offering balanced ventilation.
- **100 CFM:** Provides maximum airflow for larger bathrooms or situations requiring rapid moisture removal.

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PICK-A-FLOW SPEED SELECTOR

select speed 50-80-100 CFM

Figure 4.1: The Pick-A-Flow speed selector switch, allowing users to choose between 50, 80, or 100 CFM settings.

4.2 SmartFlow Technology

The revolutionary ECM motor with intelligent SmartFlow technology senses the amount of resistance in the duct run and automatically adjusts the fan speed. This ensures the fan delivers the optimal CFM output, maintaining consistent performance even with complicated duct configurations.



ENGINEERED FOR INNOVATION:

Revolutionary
ECM motor with
SmartFlow™
technology
ensures optimal
CFM output and
superior energy
efficiency

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Figure 4.2: Diagram illustrating the SmartFlow ECM Technology, which optimizes CFM output based on duct resistance.

4.3 Power On/Off

Operate the fan using a standard wall switch connected to the unit. Note that due to its soft-start feature, there may be a slight delay (a few seconds) between flipping the switch and the fan reaching its set speed. This is normal operation and contributes to the quiet performance.



Figure 4.3: This model does not include an integrated light. It is solely an exhaust fan.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Panasonic WhisperValue DC fan. Always disconnect power at the circuit breaker before performing any maintenance.

5.1 Cleaning the Grille

- Remove the grille by gently pulling it down from the fan housing.
- Wash the grille with a mild detergent and water.
- Rinse thoroughly and allow it to dry completely before reattaching.

5.2 Cleaning the Fan Unit

- With the grille removed and power off, use a vacuum cleaner with a brush attachment to remove dust and debris from the fan blades and interior of the housing.
- Wipe down surfaces with a damp cloth if necessary, ensuring no moisture enters electrical components.

- Do not use abrasive cleaners or solvents.

Perform these cleaning procedures at least once every six months, or more frequently depending on usage and environmental conditions.

6. TROUBLESHOOTING

If you experience issues with your Panasonic WhisperValue DC fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; circuit breaker tripped; loose wiring; soft-start delay.	Check power switch and circuit breaker. Verify electrical connections. Wait a few seconds after flipping the switch for the soft-start feature.
Fan is noisy.	Accumulated dust/debris on fan blades; loose mounting; duct obstruction.	Clean fan blades and housing. Ensure fan is securely mounted. Check ductwork for obstructions.
Poor ventilation/airflow.	Incorrect CFM setting; duct obstruction; fan blades dirty.	Check Pick-A-Flow setting and adjust if necessary. Clean fan. Inspect ductwork for blockages or leaks.
Fan vibrates excessively.	Loose mounting screws; unbalanced fan blades (due to dirt).	Tighten mounting screws. Clean fan blades to remove any buildup that might cause imbalance.

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

7. PRODUCT SPECIFICATIONS

Below are the key technical specifications for the Panasonic WhisperValue DC Bathroom Exhaust Fan (Model FV-0510VS1):

Feature	Detail
Model Name	FV-0510VS1
Brand	Panasonic
Air Flow Capacity	50-80-100 Cubic Feet Per Minute (CFM) selectable
Noise Level	0.9 Sones (at 100 CFM)
Wattage	11.1 watts (at 100 CFM)
Voltage	120 Volts
Product Dimensions (D x W x H)	16.29"D x 11.49"W x 14.2"H (Overall)
Housing Depth	3-3/8 inches

Feature	Detail
Duct Diameter	4 inch oval
Item Weight	6.8 Pounds
Control Method	Airflow selector switch
Certification	ENERGY STAR certified, UL listed for ceiling/wall mount
Included Components	Ventilation Fan unit, grille, installation manual, warranty sheet, self-drilling screws (4)

8. WARRANTY & SUPPORT

Panasonic stands behind the quality of its products. This fan comes with a manufacturer's warranty. Please refer to the warranty sheet included with your product for specific terms and conditions, including warranty period and coverage details.

8.1 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Panasonic customer support. You can find contact information on the Panasonic official website or on the warranty sheet provided with your fan.

Visit the official Panasonic store for more information and product registration: [Panasonic Store on Amazon](#)



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