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Air King EWF-180

Air King EWF-180 Through the Wall Exhaust Bath Fan User Manual

Model: EWF-180

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Air King EWF-180 Through the Wall Exhaust Bath Fan. Designed for efficient ventilation, this fan is ideal for bathrooms up to 160 square feet and other rooms up to 225 square feet, directly venting to the outside. Please read this manual thoroughly before installation and use to ensure safe and proper operation.

SAFETY INFORMATION

Always follow basic safety precautions when installing, operating, and maintaining electrical appliances to reduce the risk of fire, electric shock, or injury to persons.

- Disconnect power at the service panel before wiring or servicing the unit.
- Installation must comply with all local electrical codes and ordinances.
- This unit is UL listed for installation over a tub or shower when connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.
- Do not use this fan with any solid-state speed control device.
- Ensure proper grounding.
- Do not install in a cooking area.

COMPONENTS INCLUDED

The Air King EWF-180 exhaust fan package includes the following components:

- Fan Housing
- Motor Assembly
- White Polymeric Grill

- Grill Knob
- Wiring Compartment and Screws
- Installation and Safety Sheet (this manual)



Image: The Air King EWF-180 fan unit, showing the white polymeric grill detached from the black metal housing. The grill features a circular design with concentric rings and radial spokes, while the housing is a rectangular black box designed for through-the-wall installation, with an 8-inch round duct connection visible.

SETUP AND INSTALLATION

The EWF-180 is designed for through-the-wall installation, suitable for walls 4 to 9 inches thick. It vents directly to the outside, eliminating the need for extensive ductwork.

Tools and Materials Required:

- Drill
- Screwdriver (Phillips and Flathead)

- Measuring Tape
- Level
- Saw (for wall opening)
- Wire Strippers
- Electrical Tape
- Caulk or Sealant (weather-resistant)
- Appropriate electrical wiring (e.g., 14-gauge)

Installation Steps:

1. **Choose Location:** Select a wall location that allows for direct venting to the outside. Ensure there are no obstructions (e.g., studs, pipes, wiring) within the wall.
2. **Prepare Wall Opening:** Measure and mark an opening on the interior and exterior walls according to the fan housing dimensions (approximately 11-11/16 inches by 14-1/4 inches). Carefully cut the opening using an appropriate saw.
3. **Install Housing:** Insert the fan housing into the prepared wall opening. Ensure it is level and secure. Fasten the housing to the wall studs or framing using appropriate screws.
4. **Electrical Wiring:** Route electrical wiring from a GFCI-protected circuit to the fan's wiring compartment. Follow the wiring diagram provided on the fan's label and in the included safety sheet. Connect the power supply wires to the fan's wires (typically black to black, white to white, and green/bare to ground). Secure all connections with wire nuts and electrical tape.
5. **Attach Motor Assembly:** Secure the motor assembly within the housing according to the instructions.
6. **Install Grill:** Attach the white polymeric grill to the interior side of the fan housing. The grill measures 11-1/2 inches by 11-1/2 inches.
7. **Seal Exterior:** Apply weather-resistant caulk or sealant around the exterior edges of the fan housing where it meets the wall to prevent moisture intrusion.
8. **Test Operation:** Restore power at the service panel and test the fan's operation.

OPERATING INSTRUCTIONS

The Air King EWF-180 fan operates with a simple on/off mechanism, typically controlled by a wall switch (not included). When activated, the fan will draw air from the room and exhaust it directly to the outside.

- **Activation:** Turn on the wall switch connected to the fan to begin operation.
- **Deactivation:** Turn off the wall switch to stop the fan.
- **Optimal Use:** For best results in bathrooms, operate the fan during and after showering or bathing to effectively remove moisture and odors. For other rooms, use as needed to improve air circulation and remove stale air.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your exhaust fan. Always disconnect power before performing any maintenance.

- **Grill Cleaning:** Periodically remove the grill and wash it with mild soap and water. Rinse thoroughly and allow to dry completely before reattaching.
- **Fan Blade Cleaning:** With the power disconnected, carefully wipe the fan blades with a damp cloth to remove dust and debris. Do not bend the blades.
- **Motor Lubrication:** The motor is permanently lubricated and does not require additional oiling.
- **Exterior Vent Cap:** Periodically check the exterior vent cap for any obstructions (e.g., leaves, bird nests) and clear

them to ensure unrestricted airflow. The spring-loaded aluminum back draft damper should move freely.

TROUBLESHOOTING

If your Air King EWF-180 fan is not operating correctly, consult the following table for common issues and solutions.

Problem	Possible Cause	Solution
Fan does not operate.	No power; tripped circuit breaker/GFCI; loose wiring.	Check power supply; reset breaker/GFCI; inspect wiring connections (with power off).
Fan is noisy.	Loose grill; dirty fan blades; motor issue; obstructions in duct.	Ensure grill is secure; clean blades; check for obstructions in the exterior vent. If motor issue, contact support.
Poor air movement.	Blocked exterior vent; dirty fan blades; incorrect installation.	Clear any obstructions from the exterior vent; clean fan blades; verify installation according to instructions.

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

SPECIFICATIONS

Feature	Detail
Model Number	EWF-180
Air Flow Capacity	180 CFM (Cubic Feet Per Minute)
Noise Level	6.5 Sones
Recommended Room Size (Bathroom)	Up to 160 sq. ft.
Recommended Room Size (Other)	Up to 225 sq. ft.
Power Source	Electric
Wattage	80 watts
Voltage	120V
Product Dimensions (Overall)	9.5"D x 11.6"W x 14.25"H
Wall Thickness Compatibility	4" to 9"
Duct Connection	8-inch round metal duct
Finish	White
Certifications	HVI-certified, UL listed

WARRANTY INFORMATION

The Air King EWF-180 Through the Wall Exhaust Bath Fan comes with a **1-Year Limited Warranty** from the date of original purchase. This warranty covers defects in materials and workmanship under normal use and service. For full

warranty terms and conditions, please refer to the original product packaging or contact Air King customer support.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty claims, please contact Air King customer support. Have your model number (EWF-180) and date of purchase ready when contacting support.

Air King Customer Service:

Please refer to the Air King official website or product packaging for the most current contact information.