

## Garvee Hn6kWpwruLKQ14iAR

# Garvee 20 Inch EC Motor Shutter Exhaust Fan User Manual

Model: Hn6kWpwruLKQ14iAR

## 1. INTRODUCTION

---

Thank you for choosing the Garvee 20 Inch EC Motor Shutter Exhaust Fan. This manual provides essential information for the safe installation, operation, and maintenance of your new exhaust fan. Please read this manual thoroughly before installation and use, and retain it for future reference.

This industrial-grade exhaust fan is designed for efficient ventilation in various environments such as garages, attics, greenhouses, and sheds. It features a high-efficiency EC motor, automatic aluminum shutters, and a smart touchscreen controller for precise environmental management.

## 2. SAFETY INFORMATION

---

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury.

- **Read all instructions:** Familiarize yourself with the fan's operation and safety warnings.
- **Electrical Safety:** Ensure the power supply matches the fan's requirements (120V/60Hz). Always disconnect power before servicing or cleaning.
- **Installation:** Install the fan securely according to the instructions. Ensure proper grounding. Do not operate the fan with a damaged cord or plug.
- **Moving Parts:** Keep hands, hair, and loose clothing away from moving parts during operation.
- **Environment:** Do not use the fan in areas where flammable liquids or gases are stored or present.
- **Children and Pets:** Keep children and pets away from the fan during operation.

## 3. PRODUCT OVERVIEW

---

The Garvee 20 Inch EC Motor Shutter Exhaust Fan is engineered for high performance and durability. Key features include:

- **High-Efficiency EC Motor:** Provides 4000 CFM airflow with stable and quiet operation.
- **Smart Touchscreen Controller:** Offers 10 adjustable speeds, precise temperature and humidity control, and timer/cycle settings. Supports control of up to 3 fans.
- **Automatic Aluminum Shutters:** Open during operation and close when off, protecting against dust, debris, and insects.
- **Durable Construction:** Features a galvanized steel frame and aluminum blades for corrosion resistance and longevity.



Image 3.1: Key components of the Garvee 20 Inch Exhaust Fan, including galvanized steel frame, safety grille, aluminum blades, and fully sealed motor.

# EASY INSTALLATION



Image 3.2: Illustration of the automatic aluminum shutters opening when powered on for ventilation and closing when powered off to block rain and debris.

## 4. SPECIFICATIONS

Detailed technical specifications for the Garvee 20 Inch EC Motor Shutter Exhaust Fan:



Image 4.1: Visual representation of the fan's dimensions and key performance parameters.

Feature	Specification
Model Number	Hn6kWpwruLKQ14iAR

Feature	Specification
Size	20 Inch
Product Dimensions	23"D x 23"W x 8.9"H
Air Flow Capacity	4000 CFM
Speed	1650 RPM (10 adjustable speeds)
Noise Level	≤70 dB
Power Source	AC (120V/60Hz)
Motor Type	EC Copper Motor, Brushless
Material	Galvanized Steel, Aluminum
Control Method	Touchscreen Controller
Mounting Type	Wall Mount
Item Weight	16.5 Pounds

## 5. SETUP AND INSTALLATION

The Garvee exhaust fan is designed for easy installation. It comes pre-assembled with an 8ft power cord for convenience.

### 5.1 Pre-Installation Checklist

- Verify package contents: Fan unit, touchscreen controller, power cord.
- Ensure the installation location (wall or ceiling) is structurally sound to support the fan's weight.
- Confirm access to a standard 120V/60Hz electrical outlet.
- Gather necessary tools: Drill, screws, measuring tape, level, screwdriver.

### 5.2 Mounting Instructions

1. **Choose Location:** Select a suitable wall or ceiling location for optimal airflow and ventilation. Ensure there is enough space for the shutters to open and close freely.
2. **Mark Mounting Points:** Hold the fan in the desired position and mark the screw holes on the mounting surface. Use a level to ensure proper alignment.
3. **Drill Pilot Holes:** Drill pilot holes at the marked locations.
4. **Secure the Fan:** Mount the fan securely to the wall or ceiling using appropriate screws and anchors (not included, depending on surface material).
5. **Connect Power:** Plug the 8ft power cord into a grounded 120V/60Hz outlet.
6. **Connect Controller:** Connect the touchscreen controller to the fan using the provided Type-C cable. The controller can manage up to three fans simultaneously.



Image 5.1: Illustration showing the 72-inch power cord and the ability to connect and control up to three fans simultaneously with the touchscreen controller.



Image 5.2: Comparison highlighting the advanced features of the Garvee touchscreen controller, including 10 speeds, temperature/humidity control, and timing functions.

## 6. OPERATING INSTRUCTIONS

The touchscreen controller provides intuitive control over your exhaust fan's functions.

### 6.1 Controller Overview

# 20 INCH EXHAUST FAN

Maintains Cool, Comfortable Air



Image 6.1: Detailed view of the touchscreen controller interface, showing current temperature, humidity, mode settings, timer, and brightness/sound controls.

## 6.2 Basic Operation

- **Power On/Off:** Press the **ON/OFF** button to turn the fan on or off.
- **Speed Adjustment:** Use the **+** and **-** buttons to adjust the fan speed across 10 levels.
- **Mode Setting:** Press the **AUTO** button to cycle through different operating modes (e.g., High Temp, Low Temp, High Humid, Low Humid).
- **Temperature/Humidity Control:** In auto mode, the fan will adjust operation based on set temperature and humidity thresholds.
- **Timer/Cycle Settings:** Press the **TIMER** button to set specific operating durations or recurring cycles.
- **Temperature Unit:** Press the **°C/°F** button to switch between Celsius and Fahrenheit.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Garvee exhaust fan.

### 7.1 Cleaning the Fan and Shutters

- **Disconnect Power:** Always unplug the fan from the power source before cleaning.
- **Clean Shutters:** The automatic aluminum shutters help prevent debris accumulation. Periodically inspect and gently wipe the shutters with a damp cloth to remove any dust or dirt.
- **Clean Blades:** Carefully wipe the fan blades with a soft, damp cloth. Avoid bending the blades.
- **Exterior Cleaning:** Wipe the exterior of the fan and controller with a soft, dry cloth. Do not use abrasive cleaners or solvents.

### 7.2 Motor Maintenance

The EC motor features dual ball bearings and is designed for long-term, maintenance-free operation. No lubrication is required.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fan does not turn on	No power supply Controller not connected Fan is off	Check power outlet and circuit breaker Ensure controller is securely connected Press ON/OFF button on controller
Fan runs but airflow is weak	Low speed setting Obstruction in fan or shutters Dirty blades/shutters	Increase fan speed using controller Inspect for and remove any obstructions Clean fan blades and shutters
Shutters do not open/close	Obstruction Mechanism issue	Check for debris blocking shutters If problem persists, contact customer support
Controller display is blank	No power to controller Loose connection	Ensure fan is powered on and controller is connected Check Type-C cable connection
Unusual noise during operation	Loose parts Obstruction hitting blades	Turn off and inspect fan for loose components Remove any foreign objects from blades

If the problem persists after attempting these solutions, please contact Garvee customer support for assistance.

## 9. WARRANTY AND SUPPORT

Garvee products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your purchase or visit the official Garvee website. If you require technical support or have questions regarding your product, please contact Garvee customer service.

**Garvee Customer Support:** Please refer to your product packaging or the Garvee official website for contact details.