

# Installation & Wiring Instructions for AMG AC In-Line Centrifugal Duct Fans



## Model: AMG Spirit, Fury, Legend, Hawk, Maverick, Prowler, Eagle, Force

**IMPORTANT NOTE: DO NOT CONNECT THE POWER SUPPLY UNTIL THE FAN IS COMPLETELY INSTALLED.  
MAKE SURE THE ELECTRICAL SERVICE TO THE FAN IS LOCKED IN THE "OFF" POSITION.**

### **PLEASE READ AND SAVE THESE INSTRUCTIONS:**

#### **Warning - To reduce the risk of fire, electric shock, or injury to persons, observe the following:**

1. This unit is only for use in the manner intended by the manufacturer. If you have any questions, contact the manufacturer, Festa Manufacturing Enterprises LLC.
2. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
3. Sufficient air is needed for proper combustion and exhausting of gasses 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.
4. When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.
5. Ducted fans must always be vented to the outdoors.
6. These units can be mounted indoors or outdoors.
7. Do not use these fans with solid-state speed controllers.
8. The electric motor is protected by an internal overheat device to prevent/minimize motor damage. If the motor stops working, immediate inspection should be carried out by suitably qualified persons.
9. Before servicing or cleaning the unit, switch the power off at the 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.
10. Do not use in a window.
11. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.
12. Never place a switch where it can be reached from a tub or shower.
13. CAUTION: For General Ventilating Use Only. Do Not use to Exhaust Hazardous Or Explosive Materials and Vapours.
14. CAUTION: This unit has an unguarded impeller. Do Not Use in Locations Readily Accessible To People or Animals.
15. For Canadian Users: Use only with solid state speed control device model KBMC-13BV manufactured by KBElectronics, except with Extreme fan models.
16. CAUTION: To reduce risk of fire and to properly exhaust air, be sure to duct air outside - Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages.
17. CAUTION: For use with non-metallic conduit only.
18. WARNING: To reduce the risk of fire, electric shock, or injury to persons, do not use replacement parts that have not been recommended by the manufacturer (e.g., parts made at home using a 3D printer).
19. NOTICE: This unit is not for use in unattended areas (e.g., installed behind a suspended floor/ceiling, a structured wall/ceiling, or a floor or attic space).

#### **Installation of FME AMG Fans**

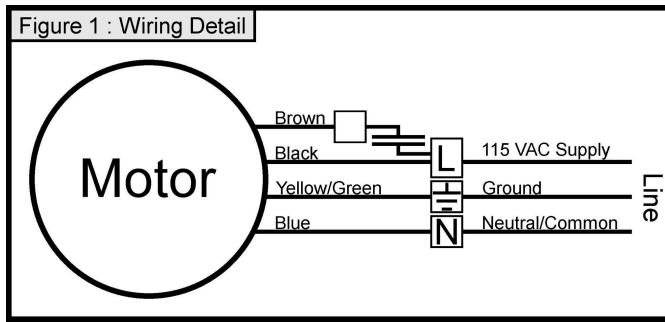
The FME AMG Fans can be mounted indoors or outdoors. We suggest that EPA recommendations be used when choosing the fan location. The AMG Fans may be mounted directly onto the piping system or fastened to a supporting structure. When mounting directly onto a vertical piping system, it is the installer's responsibility to make provisions to prevent the pipe system from sliding into and onto the fan motor and impeller. When installing a system with short duct runs terminating close to the fan, i.e., within 60" (1.524m), suitable guards should be incorporated. It is the responsibility of the installer to ensure that all aspects of the system are taken into consideration. Rigid ducting sections should be connected to fan spigots by flexible connectors and clips. The flexible connectors used should be suitable for routine servicing and vibration isolation.

#### **Fan Configuration**

All inline fans can be mounted (1) vertically with the terminal box/cover facing up or (2) horizontally with the terminal box drain hole facing down toward the ground.

#### **Electrical Connections**

Ensure that the mains supply voltage, frequency, number of phases, and power rating comply with the details on the unit rating label. All wiring must be in accordance with local and/or national electrical codes as applicable or the appropriate standard in your country. The fan must be supplied through a double-pole isolating switch having a contact separation of not less than 1/8" (3mm). Wiring to the terminal box should be made in a liquid-tight flexible conduit to facilitate easy maintenance.



### Operational Checks

Ensure all duct connections are tight and leak-free.

Check the system vacuum pressure with a manometer; ensure that the vacuum pressure is less than the maximum recommended operating pressure.

Check and verify Radon levels by testing to EPA protocol.

### Cleaning and Maintenance

We recommend that the fan be periodically checked against the listed operational checks to ensure trouble-free, long-lasting operation.

## FIVE (5) YEAR WARRANTY

### Conditions of Warranty

Festa Manufacturing Enterprises ("FME") warrants that the AMG FANS shall be free from defects in material and workmanship for a period of (5) years from the date of manufacture. If, within the applicable warranty period, the Products prove to be defective by reason of faulty workmanship or materials, FME will undertake to have the defective Product (or any part thereof) replaced at no cost to the customer, subject to the following conditions:

1. The Product has been purchased and used solely in accordance with all Environmental Protection Agency ("EPA") standard practices and state and local codes of practice.
2. The Product is returned promptly upon being found defective, together with this warranty and proof of date of installation at the customer's risk and expense to Festa Manufacturing Enterprises LLC. ("FME") from whom the Product was purchased. All inquiries must be through FME.
3. This warranty shall not apply to any Product failure or defect due to any cause beyond the reasonable control of FME, including damage caused through fire, flood, explosion, accident, misuse, wear and tear, neglect, incorrect adjustment or repair, damage caused through installation, adaptation, modification or use in an improper manner or inconsistent with the technical and/or safety standards required where the Product is used, or to damage occurring during transit to or from the customer.
4. If at any time during the Warranty Period, any part or parts of the Product are replaced with a part or parts not supplied or approved by FME, or the Product has been dismantled or repaired by any person not authorized by FME, FME shall have the right to terminate this warranty in whole or in part immediately without further notice.
5. FME's decision on all matters relating to complaints and Product defects and failure (alleged or actual) shall be final. Any Product or defective part that has been replaced shall be FME's.
6. FME will offer customers a warranty of five full years from the date of manufacture in accordance with the terms listed above.

Model	Min. Ambient Temperature	Max Ambient Temperature
AMGMaverick	-13°F (-25°C)	167°F (75°C)
AMGHawk	-13°F (-25°C)	167°F (75°C)
AMGProwler	-13°F (-25°C)	176°F (80°C)
AMGLegend	-13°F (-25°C)	176°F (80°C)
AMGEagle	-13°F (-25°C)	122°F (50°C)
AMGFury	-13°F (-25°C)	176°F (80°C)
AMGSpirit	-13°F (-25°C)	113°F (45°C)



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