EPF-24 Instruction Guide
24" Electric Explosion Proof Fan

Thank you for your purchase of the Larson Electronics EPF-24 series Explosion Proof Fan. This fan is completely assembled, tested and ready for installation when shipped from the factory. Please follow the steps below in order to operate and maintain this product.

IMPORTANT

READ CAREFULLY BEFORE OPERATING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE EPF-24 MUST BE OPERATED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.

FOR PERSONAL SAFETY, ALWAYS CONFIRM THE RATING OF ANY KNOWN HAZARDOUS OR POTENTIALLY HAZARDOUS LOCATION WHERE THE FAN IS TO BE USED.

WARNING: TO PREVENT IGNITION OF A HAZARDOUS ATMOSPHERE, THE SUPPLY CIRCUIT SHOULD BE DISCONNECTED WHEN INSTALLING OR PERFORMING ANY MAINTENANCE ON THIS UNIT.

WARNING: WHEN INSTALLING THIS FAN IN HAZARDOUS LOCATIONS, CHECK THE OPERATING TEMPERATURE LIMITS PRIOR TO INSTALLATION TO BE SURE IT CONFIRMS TO THE ENVIRONMENTAL TEMPERATURE RESTRICTIONS AND NEC CLASSIFICATIONS. CHECK THE NAMEPLATE FOR TEMPERATURE (T) RATINGS.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT US ANY SOLID-STATE SPEED CONTROL DEVICE WITH THESE FANS.

WARNING: OPERATE FAN ONLY AT THE VOLTAGE OF YOUR SPECIFIC SUPPLY CIRCUIT.

WARNING: SUBSTITUTE COMPONENTS MAY IMPAIR EXPLOSION PROOF SAFETY.

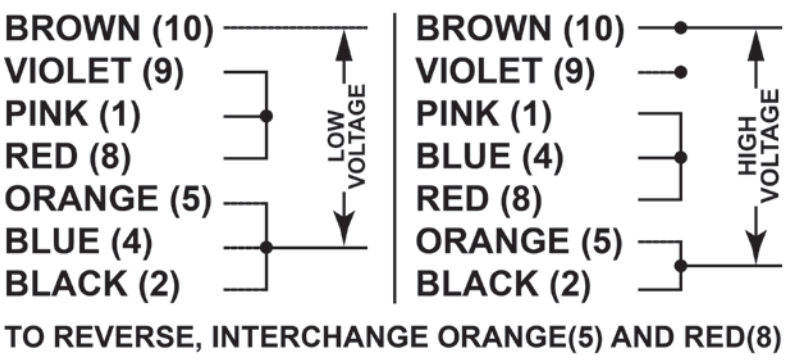
WARNING: BEFORE SERVICING OR CLEANING THE UNIT, SWITCH THE POWER OFF AT THE SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

WIRE DIAGRAM

ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN.

Be sure the voltage and cycles shown on the motor nameplate correspond to the power supply. Check product nameplate for Ratings and Approvals. This fan is rated for single phase 115V or 230V AC 60Hz operation.

Refer to the diagram below, also located inside the terminal box cover or on the nameplate. BE SURE TO CONNECT FOR THE VOLTAGE, FREQUENCY AND PHASE TO BE USED.



Before activating fan, inspect to be sure that there are no obstructions or debris that would interfere with the propeller. Check all fasteners for tightness.

For pre-wired versions, simplified connections like shown below will be available via a junction box on the back of the fan motor.



MOUNTING

The fan includes the mount chosen upon purchase, pre-installed from factory.

Mount the fan in the desired location and run power to the unit. A sturdy surface or pole mount should be prepared and capable of handling the load of the unit. Ensure all safety requirements are followed for the hazardous area. Attach safety cable between mount point and frame.

The fan head can be adjusted by loosening the two bolts near the adjustment point. Tighten the bolts once the desired tilt is achieved.

LUBRICATION

This motor is equipped with pre-lubricated ball bearings. The original supply of lubricant is kept free of dirt, grit or outside contamination by the bearing closures and does not require replenishment for the life of the bearing under normal operating conditions.

MAINTENANCE

It is recommended that you implement a standard monthly or more frequent preventive maintenance schedule. Safety requires a thorough visual examination of the unit for physical damage that might cause a spark or result in the ignition of hazardous atmospheres.

Maintenance includes a careful examination to ensure at least:

- **A.** The Cable is not frayed and is gripping tightly in all points of cable contact.
- **B.** The Cable Jacket is completely intact and that no internal conductors or conductor insulation is exposed.
- **C.** The Connection Box is not cracked, broken or breeched.
- **D.** The Cord Plug is not cracked or damaged and the Ground Post is intact.

Keeping blades clean and free of material splatter, overspray, and debris during usage will ensure the maximum life of the fan. An accumulation of dirt may cause blade vibration and motor overload. Occasionally check tightness of blade set screws.

NOTE: Handle the propeller carefully as it is factory balanced and aligned to ensure smooth operation.

TROUBLESHOOTING

Refer to the guide below or contact the manufacturer if the fixture does not function properly.

- ➔ Is the correct line voltage being supplied?
- ➔ Is the fan properly grounded?
- ➔ Make sure installed power switch is functioning properly (if applicable).

These instructions may not cover all details or variations of this product for your equipment or installation requirements. Should further information not covered by these instructions be required, please contact Larson Electronics at 1-877-348-9680 for further assistance.

Please visit LarsonElectronics.com for **Warranty** and **Return** information.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-877-348-9680 FOR FURTHER ASSISTANCE.

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