12" Explosion Proof Exhaust Fan
C1D1 - 850 CFM - Motorized Louvers - Wall Mount - Group B Hydrogen
Instruction Manual

Thank you for your purchase of the Larson Electronics EPF-LPSM-B-12-0.15HP Explosion Proof Exhaust Fan.

WARNING

TO AVOID THE RISK OF FIRE, EXPLOSION OR ELECTRIC SHOCK, THIS PRODUCT SHOULD BE INSTALLED, INSPECTED AND MAINTAINED BY A QUALIFIED ELECTRICIAN ONLY, IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODES.

TO AVOID ELECTRIC SHOCK:

- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- PRODUCT MUST BE CONNECTED TO A WIRING SYSTEM WITH AN EQUIPMENT-GROUNDING CONDUCTOR.

TO AVOID EXPLOSION:

- MAKE SURE THE SUPPLY VOLTAGE IS WITHIN THE VOLTAGE RATING.
- ENSURE THE MARKED T RATING IS LESS THAN THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE.
- DO NOT OPERATE IN AMBIENT TEMPERATURES ABOVE THOSE INDICATED ON THE PRODUCT NAMEPLATE.
- DO NOT OPERATE IF THE LENS, CORD, SEALS, HOUSING, RECEPTACLES, ETC. IS CRACKED OR DAMAGED. IF SO, DISCONTINUE USE AND CONTACT MANUFACTURER FOR REPLACEMENT PARTS.
- ALL FASTENERS SHOULD BE PROPERLY SEATED.

The Larson Electronics EPF-LPSM-B-12-0.15HP is an Explosion Proof Exhaust Fan for Class I, Division 1 & 2 rated flammable sites. This wall-mount fan features internal motorized and external fixed louvers. The 850 CFM unit is weather resistant and recommended for use with toxic gas sensors (not included).

MOUNTING



WARNING: ***We strongly recommend that only a licensed electrician install this product!***

This exhaust fan is designed for wall mounting applications facilitated by a sliding collar. The unit must fit in a 12.25" x 12.25" opening with 1.5" to 8" thickness during installation. The Occupational Safety and Health Act stipulates that when a fan is mounted less than seven(7) feet above the floor or working level, the blades shall be guarded and the guards shall have openings no larger than one-half (½) inch. These fans require supplementary guards when this requirement must be met.

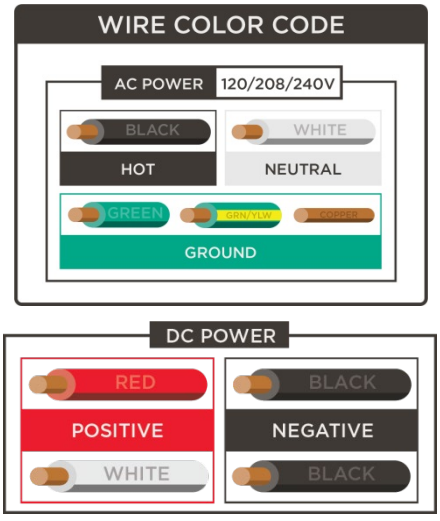
- Choose a location for the fan. Normally the fan is mounted on an outside wall near the ceiling of the room.
- Cut a 12.25 in. (311.15 mm) square opening. Remove the mounting collar. Use a sealing compound (not included) on the fan's exterior flange and insert the unit into the wall from the outside with the internal louvers pointing down. There is also a label on unit indicating the top.
- Holding the unit firmly in place, slide the mounting collar over the fan housing from the inside and secure to the surface with sheet metal screws or bolts (not included) through the flange of the collar. Use a sealing compound on the rear flange of the outside louvers and press into place with the louvers again pointing downward. This will prevent the ingress of water into the unit.

WIRING

We strongly encourage a licensed electrician install this product, in all locations, especially in outdoor areas where weatherproofing may be required.

Warning: Check product label for correct input voltage! **This product is available in multiple voltage ratings.**

Attach supply line wires to the appropriate light fixture wires as shown in the applicable diagram ➔



Secure each pair of wires according to the diagram. Utilize a junction box or similar device and take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes. A switch or sensor may be wired in-line with the fan to use for control if needed. Fan will power on when supplied with the correct voltage. Provide U.L. recognized electrical overload protection not to exceed 125% of the marked input rating of the fan motor.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.

REPLACEMENT PARTS

The EPF-LPSM-B-12-0.15HP is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

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.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.