12" Explosion Proof Exhaust Fan
C1D1 - 650 CFM - Mechanical Louvers - Wall Mount
Instruction Manual

Thank you for your purchase of the Larson Electronics EPF-LPSM Series 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 Series is an Explosion Proof Exhaust Fan for Class I, Division 1 & 2 rated flammable sites. This wall-mount fan features internal mechanical and external fixed louvers. The 650 CFM unit is weather resistant and can be used with toxic gas sensors (not included).

MOUNTING

Always follow all applicable local and national electrical and building codes when installing this unit. **We recommend only a licensed electrician install this unit, particularly in hazardous locations, or in areas where the unit may come into contact with water.**

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.

- Start by marking out and creating the opening in the wall/panel the fan is to be mounted to.
- Remove sliding collar and slip fan into opening in exhaust orientation, louvers should face downward.
- Place sliding collar around fan from the rear and slide into place until firmly against the wall.
- Use screws or other appropriate mounting hardware to secure front fixed louvers and rear sliding collar to hold fan in place. Mounting hardware is not included, but is available for purchase from Larson Electronics if needed.

Some models may feature a transformer that will need to be mounted separately. Utilize the surface mounting tabs on the enclosure to secure the transformer to a sturdy surface that is capable of supporting the load of the unit. Be sure all applicable local and National Electrical and building codes are followed when installing this unit. Consider wire or conduit routing when choosing a mounting location for the transformer. Connect the unit according to the wiring diagram included with your order.

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!*

For flying leads, attach supply line wires to the appropriate light fixture wires as shown in the diagram ➔



Secure each pair of wires according to the wiring diagram included with your unit. 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. Take any explosion proofing measures necessary to maintain ratings for the hazardous area the fan is mounted in, as outlined by NEC.

Refer to the wiring diagram included with your unit if needed, particularly for units that feature a separate step-up or step-down transformer!

OPERATION

The fan will operate and exhaust when power is supplied to it. Internal louvers are mechanical, and will open when fan is operating, then shut when power is off to protect internals. If using with a switch or hazardous gas detector, that device must be wired in-line of the fan and supply power. Refer to the manual for the switch or gas detector to be used for specifics of it's functionality and installation. **Be sure the device matches the required voltage for the exhaust fan, as stated on the product label.**

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.

REPLACEMENT PARTS

The EPF-LPSM Series 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.