Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

EPF-AC-24

Explosion Proof Portable Evaporative Cooler - 24" OD - 8723 CFM - 34 Gallon Tank - C1D1

Product ID: 71439



Image: EPF-AC-24

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPF-AC-24 Explosion Proof Air Mister
Dimensions: 36"L x 39"W x 66"H
Weight: 600 Lbs
Noise Level : 75 db @ 3 ft
Fan Motor: 1/2 HP
Fan RPM: 1725
Fan CFM: 8723
Fan Nozzles: 6
Ambient Temperature Rating: 10°C to 65°C
Motor Insulation: Class B
Sound Level:75db @ 3ft
Voltage: 120V AC 60Hz, 240V 60 Hz, 220V 60 Hz, 120V 50 Hz, 220V AC 50Hz, or 240V 50 Hz
Amp Draw: 6.62A @ 120V / 3.5A @ 230V
Discharge Temp: 15-30°F
Tank Size: 34 gallons
Run Time: 8 hrs
Wiring: 20` SOOW Cable w/ Explosion Proof Cord Cap
Shipping Dimensions: 58"L x 44"W x 80"H
Shipping Weight: 645 Lbs

Ratings / Approvals
Class I Divisions 1 & 2, Group D
Class II Divisions 1 & 2, Groups E, F & G
T3B Temperature Rating

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

Made in the USA

The EPF-AC-24 Class I Division 1 portable evaporative cooling system is rated for use in hazardous location work environments. This explosion proof air chiller combines a non-

sparking fan and dry mist technology to cool Class I Division 1 work areas that do not have access to traditional air conditioning. This portable cooling is equipped with a 34 gallon tank and a water filter to cool the work environment for up to 8 hours.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS PRODUCT

Larson Electronics evaporative cooling unit is rated Class I Division 1 & 2, Group D and Class II Divisions 1 & 2, Groups E, F & G explosion proof environments. Using dry mist technology, this air chiller ensures that your work environment stays dry while lowering the ambient temperature. At 36" wide by 39" deep by 66" tall, this evaporative cooling unit can reach an evaporation zone of 5`-10`. With a 24" inch fan and eight spray nozzles, this unit is applicable to work areas with smaller access ways. This portable cooling system will automatically shut off once the water reservoir is empty, so operators don`t need to worry about burning out the pumps. The EPF-AC-24 has an ambient temperature rating of 10° to 65°C.



Click Photo to Enlarge

With a fan unit running at 1725 RPM, this portable misting unit can chill down any industrial or commercial space in need of a cool down. Since one tank can easily last an entire work shift, there is no need for messy hose connections running throughout the work space. It is designed to be self-maintaining, therefore operators will not need to interrupt their work to replace pads or clean the nozzles.

Features

- Explosion proof
- Enclosed wires and motors
- 24" spark proof blade
- Application of dry mist technology
- Drops temperatures 20-30° Fahrenheit
- Operates up to 8 hours on a single tank
- Automatic pump shutoff when tank nears empty.
- Weighs 175 lbs
- Reaches an area of 3,500 square feet
- Can be crane lifted
- 0.7 GPM at 60 PSI
- Eight individual spray nozzles strategically placed around the fan.

This unit comes with a 24" spark proof aluminum blade and enclosed wire and motors. The fan blades are spark resistant and the unit is easily transported to various job sites. This cooler is easily transferred with 6" pneumatic wheels and connects via a 20` cord terminating in an explosion proof plug. This unit operates on 120V, 220V, or 240V AC and has an amp draw of 6.62A on a 120V AC system. The EPF-AC-24 has an ambient temperature rating of 10° to 40°C.

Click Photos to Enlarge



5-15 Straight Blade Plug



5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring & Plug: This explosion proof air mister is equipped with 20 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an explosion proof cord cap for easy connection to explosion proof outlets. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets. ***PLEASE NOTE** voltage ratings on plugs and outlets are MAXIMUM voltage. For low voltage applications, proper voltage must be applied to the outlet or damage to the light fixture will occur.*

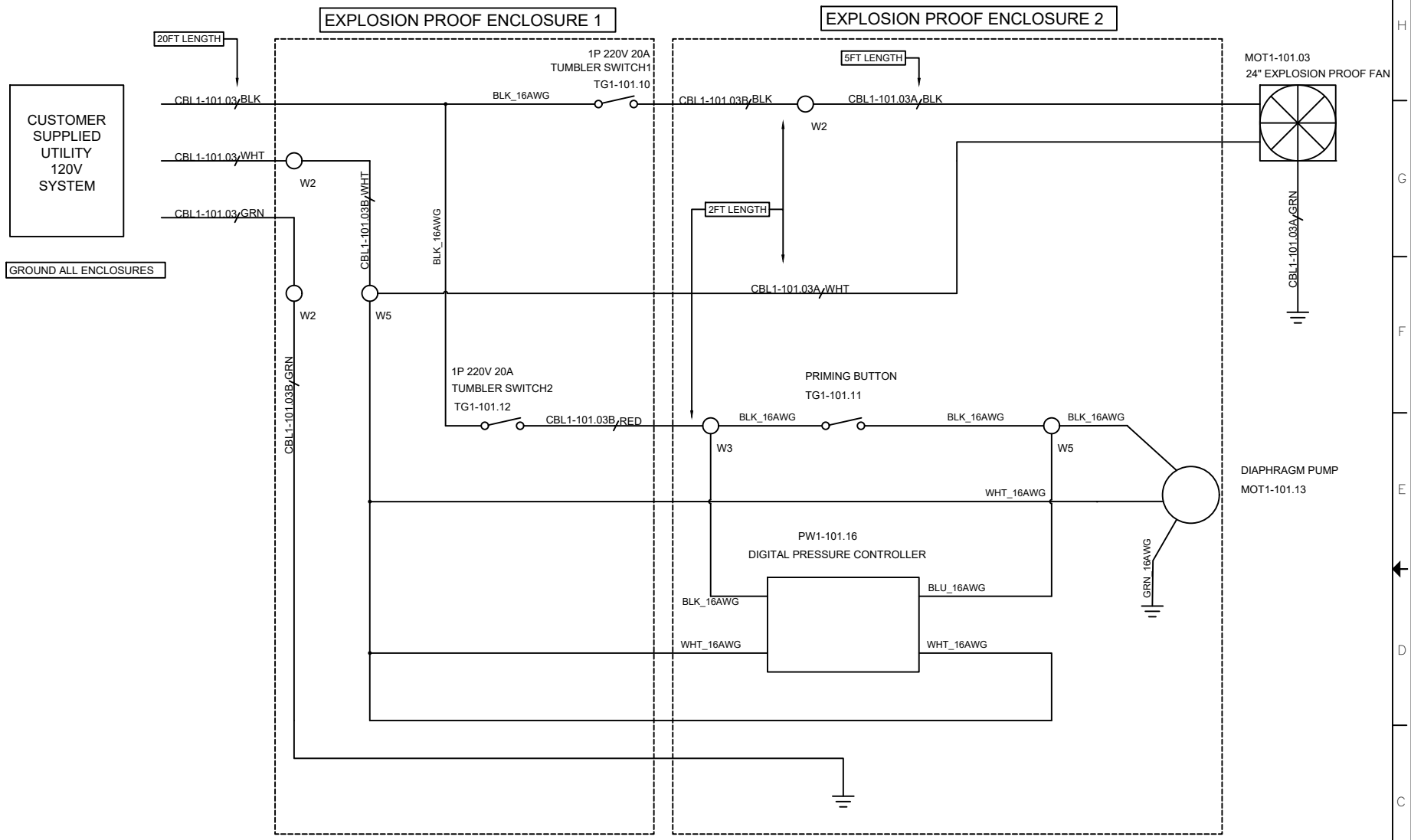
Larson Electronics hazardous location evaporative cooling unit is easy to move around with its quick connect crane pick-eye and its powder coated steel tubing frame ensures minimal rusting and longevity. Applications include Class I Division 2 areas, including oil rig floors, construction sites, and tank cleaning applications.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	12-05-2023

EPF-AC-24-220V.50HZ-2023.250V-PWDC (CUSTOMIZATION 271005)

LARSON ELECTRONICS®



TAGS	QTY	CATALOG	DESCRIPTION
MOT1-101.03	1	UNV00001396	24" Wall Mount - Class 1 DIVISION 1 FAN
MOT1-101.13	1	UNV00007677	1.22GOM 230V DIAPHRAGM PUMP 3CHAMBER
PW1-101.16	1	UNV00001623	GUARDIAN CP CONSTANT PRESSURE DIGITAL CONTROL
TG1-101.10 TG1-101.12	2	UNV00005436	HAZ LOC DIV1 1P SWITCH COVER
TG1-101.11	1	UNV00016079	Explosion Proof Push Button Switch - Class I, II, III - 20 Amps
W2	3	UNV00009802	2 HOLE WAGO
W5	2	UNV00009803	5 HOLE WAGO
W3	1	UNV00011954	3 HOLE WAGO
CBL1-101.03 CBL1-101.03A	25FT	UNV00007524	16/3 SOOW CABLE
CBL1-101.03B	2FT	**UNV00007444**	16/4 SOOW CABLE

LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE
EPF-AC-24-220V.50HZ-2023.250V-PWDC (CUSTOMIZATION 271005)

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Fax: 903.765.7664



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPF Series
Description: Explosion Proof Fan

Evaluated Listings:

- **UL:** PTDR.E312535 – NEC / United States standards for MOTORS FOR USE IN HAZARDOUS LOCATIONS
- **UL:** PTDR2.E312535 – NEC / United States standards for ELECTRIC MOTORS, MOTOR SUBASSEMBLIES AND MOTOR ACCESSORIES FOR USE IN HAZARDOUS LOCATIONS – COMPONENT
- **UL:** PTDR7.E312535 – CEC / Canada standards for MOTORS FOR USE IN HAZARDOUS LOCATIONS CERTIFIED FOR CANADA
- **UL:** PTDR8.E312535 – CEC / Canada standards for ELECTRIC MOTORS, MOTOR SUBASSEMBLIES AND MOTOR ACCESSORIES FOR USE IN HAZARDOUS LOCATIONS CERTIFIED FOR CANADA – COMPONENT

The EPF Series is certified to NEC and CEC standards hazardous locations for:

- NEC: Class I, Divisions 1 & 2, Groups C, D; Class II, Divisions 1 & 2, Groups E, F, G
- CEC: Class I, Divisions 1 & 2, Groups C, D; Class II, Divisions 1 & 2, Groups E, F, G

The EPF Series is comprised of a Bluffton explosion proof motor. This motor is custom mounted to the fan cage and non sparking fan propeller assembly. The fan assembly may be mounted to a portable stand or cart. The fan assembly may be equipped with cord or controls. This assembly is built to NEC and CEC standards for hazardous locations.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Product Description

Title:	INDUSTRIAL CONTROL PANELS
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Industrial Control Panels For General Use.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Panels (UL-508A) and are identified with the ETL Listed Mark.

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Product Description

Title:	EXPLOSION-PROOF & DUST IGNITION-PROOF ELECTRICAL EQUIPMENT FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Explosion-proof or dust-ignition-proof Industrial Control Panels for use in Hazardous (Classified) Locations, Model Nos. Custom Industrial Control Panels
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Explosion-Proof and Dust Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations (UL-1203) and are identified with the ETL Listed Mark.

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Product Description

Title:	INDUSTRIAL CONTROL EQUIPMENT
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Industrial Control Panels For General Use. Industrial Control Panels Relating to Hazardous (Classified) Locations, Custom Industrial Control Panels. Power Distribution System, Model Nos. MGL, MPD, MGS series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Equipment (CAN/CSA-C22.2 No. 14) and are identified with the cETL Listed Mark.

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Product Description

Title:	ENCLOSURES
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Explosion-proof or dust-ignition-proof Industrial Control Panels for use in Hazardous (Classified) Locations, Model Nos. Custom Industrial Control Panels Luminaires, Model Nos. EPL-48-2L-LED-SFC, EPL-24-2L-LED-SFC. for use in Hazardous Locations: Class I, Div. 1, Groups C and D T5 or T6 -20°C < Tamb < 40°C Class II, Div. 1., Groups E, F, and G; Class III Div.1 T3B -20°C < Tamb < 40°C
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Enclosures for use in Class II, Groups E, F, G Hazardous Locations (CAN/CSA-C22.2 No. 25) and are identified with the cETL Listed Mark.

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Product Description

Title:	EXPLOSION-PROOF ENCLOSURES FOR USE IN CLASS I HAZARDOUS LOCATIONS
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Explosion-proof or dust-ignition-proof Industrial Control Panels for use in Hazardous (Classified) Locations, Model Nos. Custom Industrial Control Panels
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Explosion-Proof Enclosures for Use in Class I Hazardous Locations (CAN/CSA-C22.2 No. 30) and are identified with the cETL Listed Mark.

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Material Safety Data Sheet

To Whom It May Concern,

The Larson Electronics LLC EPF industrial line of fans for hazardous locations are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS). This document does not expire.

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

The "hazardous location" and "explosion proof" are terminology for the environment where these products will be installed. This is not to be confused with "hazardous materials;" this product does not contain any hazardous materials.

Regards,

Ray Smith
Larson Electronics, LLC.

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UL Product iQ™

PTDR.E312535 - Motors for Use in Hazardous Locations

Motors for Use in Hazardous Locations

See General Information for Motors for Use in Hazardous Locations

BLUFFTON MOTOR WORKS L L C, A SUBSIDIARY OF WEG ELECTRIC CORP E312535
410 E SPRING ST
BLUFFTON, IN 46714-3737 USA
Class I, Groups Cand D; Class II, Groups E, F and G.

Also Class I, Groups C and D; Class II, Groups E, F and G motors with labeled brakes. The brakes in these explosion-proof and dust-ignition proof assemblies are intended essentially for holding purposes and may be used for stopping light inertia loads.

Trademark and/or Tradename: "E312535", "Bluffton Motor Works", "WEG", "WEG Commercial Motors",

Last Updated on 2018-07-17

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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UL Product iQ™

PTDR2.E312535 - Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations - Component

Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations - Component

See General Information for Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations - Component

BLUFFTON MOTOR WORKS L L C, A SUBSIDIARY OF WEG ELECTRIC CORP E312535
410 E SPRING ST
BLUFFTON, IN 46714-3737 USA
Class I, Group D.

Electric motor subassemblies, Frame 48, Model Nos. 4421007425, 4421007427, 4421007428, 4421007435 and 4421007436; Rotor Part Nos. 260447904, 260447905 and 262722914.

Conditions of Acceptability:

1. The acceptability of these devices with a specific end product is dependent upon the addition of drive-end endshield or pump housing and an opposite drive end endshield to complete the explosion-proof enclosure.

Additional Conditions of Acceptability may be included in the Report available from the manufacturer.

Marking: Company name, Tradename or trademark "Bluffton Motor Works", "WEG", "WEG Commercial Motors", BLUFFTON MOTOR WORKS , WEG product identification electrochemically etched on the stator and the Recognized Component Mark .
Additional markings may be included in the Report available from the manufacturer.

Last Updated on 2018-07-17

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UL Product iQ™

PTDR7.E312535 - Motors for Use in Hazardous Locations Certified for Canada

Motors for Use in Hazardous Locations Certified for Canada

See General Information for Motors for Use in Hazardous Locations Certified for Canada

BLUFFTON MOTOR WORKS L L C, A SUBSIDIARY OF WEG ELECTRIC CORP E312535
410 E SPRING ST
BLUFFTON, IN 46714-3737 USA
Class I, Groups C and D; Class II, Groups E, F and G.

Also Class I, Groups C and D; Class II, Groups E, F and G motors with labeled brakes. The brakes in these explosion-proof and dust-ignition proof assemblies are intended essentially for holding purposes and may be used for stopping light inertia loads.

Trademark and/or Tradename: "E312535", "Bluffton Motor Works", "WEG", "WEG Commercial Motors",

Last Updated on 2018-07-17

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UL Product iQ™

PTDR8.E312535 - Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations Certified for Canada - Component

Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations Certified for Canada - Component

See General Information for Electric Motors, Motor Subassemblies and Motor Accessories for Use in Hazardous Locations Certified for Canada - Component

BLUFFTON MOTOR WORKS L L C, A SUBSIDIARY OF WEG ELECTRIC CORP E312535
410 E SPRING ST
BLUFFTON, IN 46714-3737 USA
Class I, Group D.

Electric motor subassemblies, Frame 48, Models 4421007425, 4421007427, 4421007428, 4421007435 and 4421007436; Rotor Part Nos. 260447904, 260447905 and 262722914.

Conditions of Acceptability:

1. The acceptability of these devices with a specific end product is dependent upon the addition of drive-end endshield or pump housing and opposite drive end endshield to complete the explosion-proof enclosure.

Additional Conditions of Acceptability may be included in the Report available from the manufacturer.

Marking: Company name, Tradename or trademark "Bluffton Motor Works", "WEG", "WEG Commercial Motors", BLUFFTON MOTOR WORKS , WEG and model designation electrochemically etched on the stator and the Recognized Component Mark for Canada c UL us .

Additional markings may be included in the Report available from the manufacturer.

Last Updated on 2018-07-17

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPF Series
Description: Explosion Proof Fans

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The EPF series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPF Series
Description: Explosion Proof Fans

Evaluated Listings:

CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: EPF Series
Description: Explosion Proof Fans

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)

There are no Faqs