



# OIL GUARDIAN™

## GUARDIAN™ Fire Safety Solutions for Fume Control Systems

### LIMESTONE FEEDER

The Oil Guardian™ is a limestone feeding unit that continuously doses limestone powder into the fume control system ductwork. Oil Guardian™ features three agitators that supply a steady uninterrupted flow of limestone powder from the hopper to the duct.

The Oil Guardian™ is to be installed between the Spark Guardian™ and a sliding valve. The limestone decreases the combustibility of oil in the system. The mixed limestone and oil become a dry matter. When it reaches the filter, the dry matter falls down in the dustbin during the cleaning cycle.



### APPLICATIONS:

Oil Guardian™ is part of Lincoln Electric's GUARDIAN™ fire safety solutions for fume control systems and is recommended for applications with an increased fire risk, such as:

- Robotic welding of oily stamped products
- Robotic and automatic welding of oily products
- Manual welding of oily products
- Cutting tables
- Schools/Other areas with risk of cigarette butts

### SPECIFICATIONS:

- **Physical Dimensions and Properties:**
  - Material Housing: Steel
  - Weight [net; without limestone]:
    - 379 lbs (172 kg)
  - Contents Limestone Reservoir:
    - 18.5 gallon (70 litres)  
(equals to 165 lbs/75 kg of limestone)
  - Limestone Consumption: 10-20 g per filter cartridge per hour; e.g.:
    - MDB-4: 40-80 g/h
    - MDB-24: 240-480 g/h
- **Technical Data:**
  - Connection Voltage:
    - 400V/3ph/50Hz
    - 480V/3ph/60Hz
    - 600V/3ph/60Hz
  - Motor Power:
    - Upper (Agitator): 250 W (0.33 HP)
    - Middle (Agitator): 370 W (0.5 HP)
    - Lower (Screw Conveyor): 90 W (0.1 HP)
- **Ambient Condition:**
  - Operating Temperature:
    - Nominal: 41°F (5°C)
    - Minimum: 68°F (20°C)
    - Maximum: 113°F (45°C)
  - Max. Relative Humidity: 80%
  - Outdoor Use Allowed: No
  - Storage Conditions:
    - 41-113°F (5-45°C); relative humidity max. 80%

### APPROVALS/CERTIFICATES



Protection Class Control Box  
in Accordance with:  
· IEC 60204 · UL 508A

ref. UL-508A



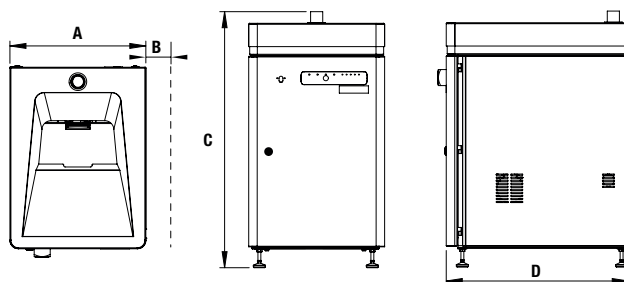
Automation  
Solutions



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Top View      Front View      Side View



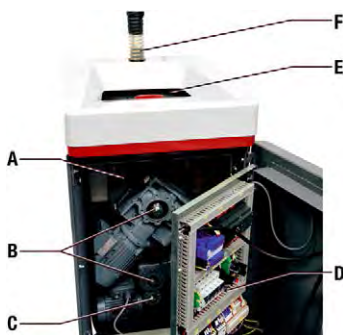
### DIMENSIONS

A	22 in (560 mm)
B*	26 in (660)
C	41.5 in (1055)
D	29.5 (750)

\*Open Door

### MAIN COMPONENTS

A	Limestone Reservoir
B	Agitator Mechanism (2)
C	Screw Conveyor
D	Controls (Inside Door)
E	Limestone Refill Lid
F	Limestone Outlet Duct



### FEATURES

- Dust-free limestone refill due to rim extraction under top cover.
- Use of limestone keeps operational costs low. Accurate dosing adjusted to the size of the connected filter system.
- Turbo button for 100% limestone dosing during a preset time. Used to provide new filter cartridges with an initial layer of limestone.



### CONTROL PANEL



A	Power On	D	Failure/Attention (+ orange LED E/F/G/H/I)	G	Limestone Pipe Clogged
B	Limestone Dosing	E	Fill Up Limestone	H	Call Service Engineer
C	Limestone Dosing - Turbo	F	Close Refill Lid	I	System/Fan Off

### ORDER INFORMATION

Product Name	Product Number
Oil Guardian™ - 400/3/50Hz	AD1387-22
Oil Guardian™ - 480/3/60Hz	AD1387-23
Oil Guardian™ - 600/3/60Hz	AD1387-24

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.

#### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

### WORLD-CLASS WELD FUME CONTROL EXPERTISE

Our technical sales team is trained and knowledgeable about the methodology of substitution, isolation, and ventilation. As a key partner, with a wealth of experience and knowledge of welding, welding fume and welding fume removal, we can assist you to identify the right weld fume control solution for your application. Lincoln Electric has a global network of facilities and people to provide quick response and personalized attention, no matter where your welding operations are located.

### SUPPORT & TRAINING PROGRAMS

We offer support materials, training tools, free seminars and courses to enhance your welding and cutting safety program.

Our service and support programs are designed to meet your needs. For on-going preventive maintenance and support, our team can train your staff, conduct evaluations or audits and deliver the services you need to stay productive and effective.

### VALUABLE CUSTOM SOLUTIONS

The Lincoln Electric weld fume control team understands and recognizes that each welding application is unique with its own set of variables; one equipment and consumable solution does not fit every application. Our team will engineer a system to efficiently and effectively remove welding fume and particulate from your metalworking operations.

Contact us today!



[www.lincolnelectric.com/automated-solutions](http://www.lincolnelectric.com/automated-solutions)

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