



# **MINIFLEX<sup>®</sup>**

PORTABLE WELDING FUME EXTRACTOR



**LINCOLN<sup>®</sup>**  
**ELECTRIC**

 WELD FUME CONTROL



# MINIFLEX®

PORTABLE WELDING FUME EXTRACTOR

THE MINIFLEX® IS A PORTABLE AND EFFECTIVE SOLUTION FOR THE REMOVAL AND FILTRATION OF WELDING FUMES IN CONFINED AND OTHER HARD TO REACH SPACES.

Unlike other bulkier welding fume extractors, the Miniflex® leads the industry in portability and ease of use. The Miniflex® is a high vacuum system designed for the removal and filtration of welding fumes from light duty welding applications.

THE MINIFLEX® IS IDEALLY USED FOR:

- ▶ Contractors
- ▶ Maintenance workers
- ▶ Small to medium fabrication shops
- ▶ Home hobbyist



Miniflex®, K2376-1



## MINIFLEX® FIVE-STAGE FILTRATION PROCESS

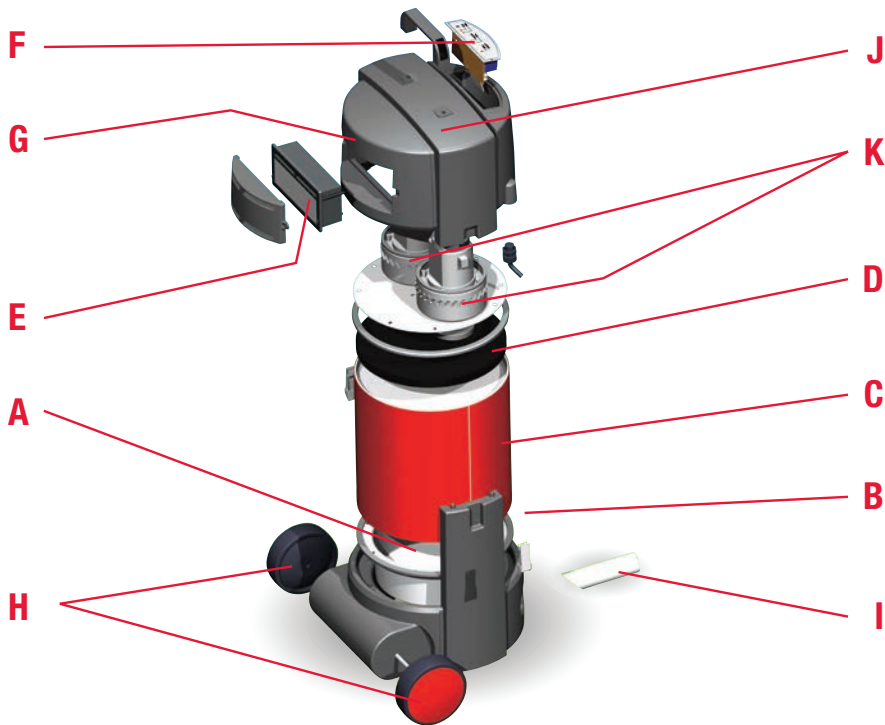
**Stage 1:** Air passes through a removable and washable pre-filter where heavier particles and foreign material are captured in the collection tray.

**Stage 2:** Air passes through a second pre-separator to further reduce medium to heavy particulate matter.

**Stage 3:** Air passes through the LongLife-H filter where welding fume particles are captured and deposited.

**Stage 4:** Activated carbon filter (optional) will help prevent or neutralize the release of odors back into the environment.

**Stage 5:** Final filtration as air passes through the HEPA H12 Class Filter.



- A. **STAGE 1:** Pre-filter (KP2390-2) captures larger particles and drops particulate matter into collection tray
- B. **STAGE 2:** Pre-Separator for capturing medium to heavy particulate matter
- C. **STAGE 3:** LongLife-H Filter (KP2390-1)
- D. **STAGE 4:** Activated carbon filter (K2390-1) (Optional)
- E. **STAGE 5:** HEPA H12 Class Filter (KP2390-2) for higher filtration efficiency

- F. Automatic Start/Stop for less energy consumption, convenience and long filter
- G. Smart noise insulator
- H. Wheels standard for easy portability
- I. Intake connection for extraction hose
- J. Current sensor cable tray/ groove
- K. Two motors for better performance

## OPTIONAL EXTRACTION NOZZLES

Easily adapt your portable weld fume extraction unit to many different welding applications.



EN 20 Extraction Nozzle; K2389-5



EN 40 Extraction Nozzle; K2389-6



Aluminum Suction Nozzles with Magnetic Mounting; K639-1



SHFA Flat Suction Nozzle; K639-5



UNM Suction Nozzle for Heavy Smoke; K639-6



SHMS-400 Low Noise Nozzle; K639-4

## FEATURES:

- ▶ **Current Sensor** - Allows convenient automatic start/stop capability by sensing welding current.
- ▶ **Multiple Extraction Settings** - Choose extraction capacity setting based on environmental conditions 94 CFM (Low) or 135 CFM (High).
- ▶ **Quiet Operation** - Operates at a sound level of <70dB(A).

## BENEFITS OF THE MINIFLEX®

- ▶ **Cleaner work environment:** Reduces fumes and particulate in the operator and surrounding work areas.
- ▶ **Low maintenance:** Quick disassembly for cleaning and maintenance.
- ▶ **Light weight:** Ease of portability and placement in work areas.
- ▶ **Low noise level:** Will not contribute to increased noise levels.
- ▶ **Economical to operate:** Start/Stop sensors reduce energy consumption.

## MINIFLEX® TECHNICAL DATA:

- ▶ **Airflow:** Low- 94 CFM  
High-135 CFM
- ▶ **Input Power (Voltage/Phase/Hertz):**  
115/1/50/60
- ▶ **Input Current:** 15A
- ▶ **Dimensions - H x W x D:**  
28.75 x 16.5 in (730 x 420 mm)
- ▶ **Weight:** 38 lbs. (17 kg)
- ▶ **Processes:**  
Stick (Light Duty), TIG, MIG,  
Flux-Cored (Light Duty)
- ▶ **Product Number:** K2376-1



## 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.

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.



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