

# PORTABLE WELDING FUME EXTRACTOR

## MINIFLEX®



## Portable convenience

Lincoln Electric's Miniflex® is a high vacuum system designed for the removal and filtration of welding fumes from light duty welding applications. The Miniflex® excels in performance and ease of handling. It can be completely disassembled in a matter of minutes for cleaning and maintenance. The convenient automatic start/stop function can extend the life of the motor brushes and reduces energy consumption.

### Packed with features

- Five-stage Filtration System – Delivers higher filtration efficiency. Final stage includes a HEPA H12 Class filter.
- Generously Sized Main Filter – Large surface area 12m<sup>2</sup> extends filter's useable life.
- Activated Carbon Filter (optional) – Reduces the recirculation of odors into the environment.
- Current Sensor – Allows convenient automatic start/stop capability by sensing welding current.
- Dual 1KW Motors – Provide strong airflow and welding fume extraction.
- Multiple Extraction Settings – Choose 160m<sup>3</sup>/h (Low) or 230m<sup>3</sup>/h (High).
- Quiet Operation – Sound level < 70 dB(A).
- Highly Portable – Standard wheels, handle and lightweight make the Miniflex® easy to roll around the shop.

### Processes

Stick (Light Duty), TIG, MIG, Flux-Cored (Light Duty)

### Input



### Product Number

603001720

### What's included

- 2.7m cord with 10 amp plug
- 2.4m length x 45mm O.D. extraction hose.
- Long Life-H main filter.
- HEPA filter.
- 2 spare sets of carbon brushes & seals for motors.

### SPECIFICATIONS

Machine	Product Number	Input Power Voltage / Phase / Hertz	Input Current	Extraction Capacity	H x W x D in mm	Net Weight in kg
Miniflex	7603001720	240/1/50	10A	Low: 160m <sup>3</sup> /h High: 230m <sup>3</sup> /h	730 x 420	18.6

The Lincoln Electric Company (Australia) Pty. Ltd.  
35 Bryant Street Padstow NSW 2211 Australia  
Ph: 1300 728 720 (AU) | 0800 728 720 (NZ)  
[www.lincolnelectric.com.au](http://www.lincolnelectric.com.au)

**LINCOLN®**  
**ELECTRIC**  
THE WELDING EXPERTS®

## Weight and Design

The Miniflex® is constructed from synthetic materials, making it light-weight 18.6kg and impact resistant. Wheels and a carrying handle, which are standard on the Miniflex®, increase the portability of the unit.

## Five-Stage Filtration Process

The Miniflex® has a five-stage filtration process.

1. As the air enters the system through an intake connection, it passes through a removable and washable metal pre-filter in which heavier particles and foreign material are captured.
2. Air passes through a second metal pre-separator to further reduce any large particle matter from reaching the main filter.
3. Air passes through the LongLife-H main filter where the welding fume particles are captured and deposited.
4. (Optional) After flowing through the LongLife-H filter, the air passes through the optional activated carbon filter to help prevent or neutralize the release of odors back into the environment.
5. Air passes through a HEPA filter.

## LongLife-H filter

The unique design of the Miniflex® LongLife-H main filter has resulted in a very large filter surface area equaling 12 m<sup>2</sup>. With such a large surface area, the filter has an extended life.

## Current Sensor

At the top of the Miniflex® unit is an automatic start/stop button and a manual button. When the Miniflex® is being operated in automatic mode, the unit automatically switches on as the welder begins to weld, and automatically switches off approximately 15 seconds after the welder stops welding.

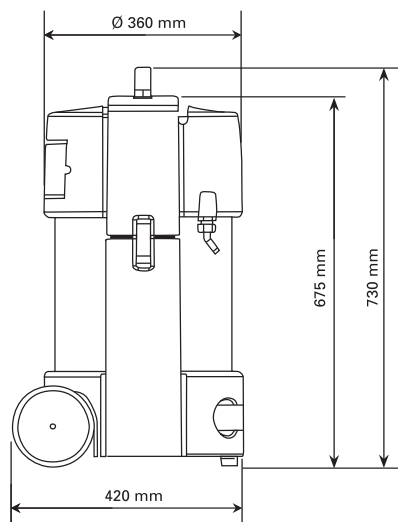
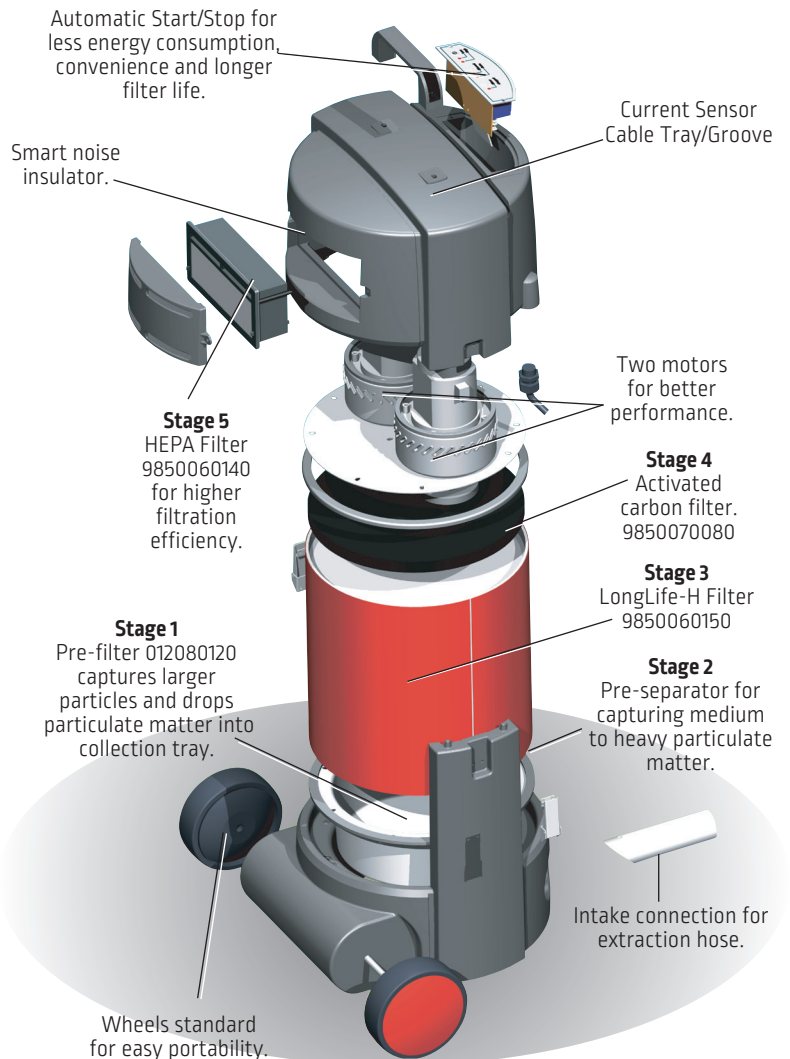
The result is less energy consumption and non-continuous noise. Operation of the automatic start/stop function requires positioning the welder's work or power cable in the slotted groove on top of the Miniflex® and a minimum welding current of 50 amps. When the Miniflex® is operated in manual mode, the unit runs continuously.

## Reduced Noise

Insulation around the air exhaust significantly reduces noise without overheating the motors. The operating sound level for the Miniflex® is < 70 dB(A) with extraction nozzle installed.

## Two Parallel Motors

The Miniflex® is powered by two 1KW motors allowing for sufficient extraction capacity under a variety of conditions. At the top of the Miniflex® unit is a high/low button. In high mode, both motors are working at 100% capacity, extracting 230m<sup>3</sup>/h of air. In low mode, both motors are working at 50% capacity, extracting 160m<sup>3</sup>/h of air. With both motors increasing and decreasing speed, the result is a continuously balanced system with reduced maintenance. The motor's placement within the unit helps to reduce noise.



## General options

**EN 20 Extraction Nozzle.** Order 7900060020

**EN 40 Extraction Nozzle.** Order 7900060010

## Extraction Hoses.

Order 9880020100 for 5 m x 45 mm hose.

Order 9880020110 for 2.5 m x 45 mm hose.

## Nozzle Kits.

Order 79000600030 for NKT.

Order 79000600040 for NKC

**Hose-to-Hose Adapter.** Order 0809010040

**Hose Connection Outlet.** Order 7900060050

**Wall Mounting Bracket.** Order 7915303000

**Activated Carbon Filter.** Order 9850070080

**Pre-filter.** Order 012080120

**LongLife-H Filter.** Order 9850060150

**HEPA Filter.** Order 9850060140

## CUSTOMER ASSISTANCE POLICY

Lincoln Electric® business 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 advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric® is not in a position to warrant or guarantee such advice and to the extent permitted by law assumes no liability, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given. The provision of information or advice does not create, expand or alter this warranty. 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 this type of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing.

**The Lincoln Electric Company (Australia) Pty. Ltd.**  
35 Bryant Street Padstow NSW 2211 Australia  
Ph: 1300 728 720 (AU) | 0800 728 720 (NZ)  
[www.lincolnelectric.com.au](http://www.lincolnelectric.com.au)

Miniflex Portable Fume | 08/18 | © The Lincoln Electric Company (Australia) Pty Ltd | All Rights Reserved.

**LINCOLN**  
**ELECTRIC**  
THE WELDING EXPERTS®