

**Processes**

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

**Product Number**

7603001720

See page 4 for additional models.

**Input Power**

240V/1/50/60

**Input Current**

10A

**Weight/Dimensions (H x W x D)**

18.6kg

730 x 420 mm

## ADVANTAGE

- ▶ **Five-stage Filtration System** - Delivers higher filtration efficiency. Final stage includes a HEPA H12 Class filter.
- ▶ **Generously Sized Main Filter**- Large surface area (130 ft<sup>2</sup> / 12 m<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 light weight make the Miniflex® easy to roll around the shop.

### WHAT'S INCLUDED

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

**INPUT****EXTRACTION CAPACITY**

LO: 160m<sup>3</sup>/h  
HI: 230m<sup>3</sup>/h



## Portable Welding Fume Extractor

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.



## A CLOSER LOOK

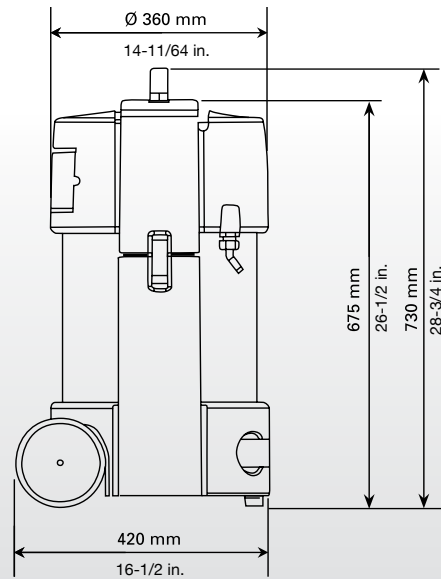
### Weight and Design

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 130 ft<sup>2</sup> (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.

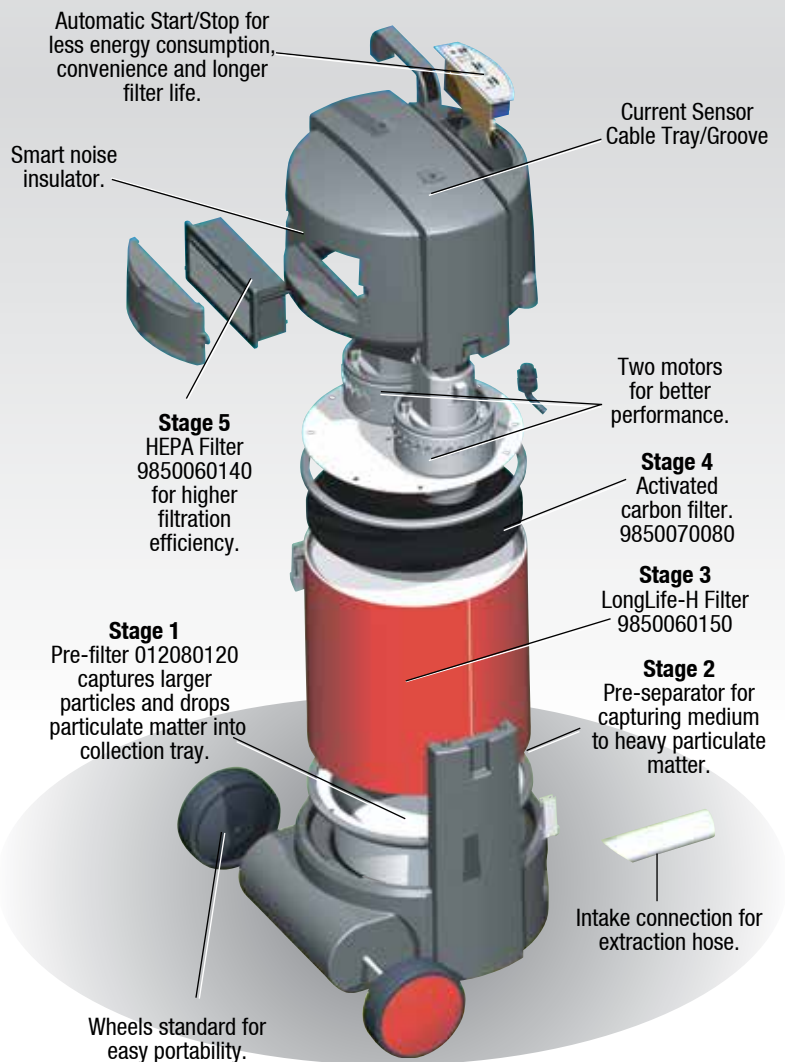
The result is less energy consumption and non-continuous noise. Operation of the automatic start/stop function requires positioning the welder's work or power cable in the slotted groove on top of the Miniflex® and a minimum welding current of 50 amps. When the Miniflex® is operated in manual mode, the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



## RECOMMENDED ACCESSORIES

### GENERAL OPTIONS

#### EN 20 Extraction Nozzle

The EN 20 nozzle is designed for a wide array of welding applications. With its funnel extraction opening and magnetic mounting stand, it gives the welder a greater amount of versatility.

**Order 7900060020**



#### EN 40 Extraction Nozzle

The EN 40 nozzle is designed for stick electrode applications. With its L-shaped tube and an elongated slotted opening, the EN 40 nozzle is designed to coincide with the time it takes the welder to use one stick electrode. This design alleviates the welder from having to continuously reposition the nozzle. Magnetic mounting stand included.

**Order 7900060010**



#### Extraction Hoses

Flexible high temperature hoses with spring steel reinforcement. Use to extend or replace 2.5 m hose included with the Miniflex®. To ensure an effective performance level, it is recommended that a maximum hose length of 7.5 m be used on extraction side of the Miniflex®. Includes two hose adapter ends.

**Order 9880020100**  
for 5 m x 45 mm hose.

**Order 9880020110**  
for 2.5 m x 45 mm hose.



NKT



NKC

#### Nozzle Kits

The NKT and NKC nozzle kits provide extraction capacity to standard welding torches. The NKT kit is for mounting the extraction hose on top of gun. The NKC kit is for circular extraction. Note: guns not included.

**Order 79000600030** for NKT  
**Order 79000600040** for NKC

#### Hose-to-Hose Adapter

To connect hoses together, a 50 mm hose-to-hose adapter screws over hose ends, providing a tight connection and seal.

**Order 0809010040**



#### Hose Connection Outlet

The hose connection outlet (HCH 45) can be used to exhaust or dispose of welding fume particles.

**Order 7900060050**



#### Wall Mounting Bracket

The MBH wall-mounting bracket allows for the Miniflex® to be placed off the work floor and on the wall, out of the welder's workspace.

**Order 7915303000**



#### Activated Carbon Filter

To neutralize or prevent the recirculation of odors or smells into the environment, the optional FAC HV, activated carbon filter can be placed on top of the Miniflex® LongLife-H main filter.

**Order 9850070080**



#### Pre-filter

Stage 1 pre-filter replacement.

**Order 0102080120**



#### LongLife-H Filter

Stage 3 LongLife-H filter replacement.

**Order 9850060150**



#### HEPA Filter

Stage 5 High Efficiency Particle Air (HEPA) filter replacement.

**Order 9850060140**

**PRODUCT SPECIFICATIONS**

Product Name	Product Number	Input Power Voltage/Phase/ Hertz	Input Current	H x W x D mm	Net Weight kg
Miniflex®	7603001720	240/1/50	10A	730 x 420	18.6kg



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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