PORTABLE FUME EXTRACTION SYSTEM

The Miniflex® is a lightweight, high vacuum portable fume extraction system designed to filter particulate and remove welding fumes. Intended for light duty welding applications, the quiet operation and portability of the Miniflex make this system an ideal solution for confined and hard to reach spaces.

» Create a safer work environment for welders/shop employees
» Effectively remove weld fume particulate with large surface area coverage and 99.7% filter unit efficiency
» Light weight, durable construction and portable design
» Compact size for use anywhere you go

Processes »
Stick (Light Duty), TIG, MIG, Flux Cored (Light Duty)

Product Number »
K3972-3 (120V)
K2497-18 (230V)
K4260-2 (120V) One-Pak

Made in the USA
**KEY FEATURES**

- **Current Sensor** – Automatic start/stop capability by sensing welding current
- **Multiple Extraction Settings** – Select extraction CFM setting based on environmental conditions: 95 CFM (Low) or 108 CFM (High)
- **Quiet Operation** – Operates at a sound level of <80dB(A)
- **Carbon Brush System** – Monitors and alerts brush consumption based on 750 run hours
- **System Airflow Check** – Easily observe extraction performance

**WHAT’S INCLUDED**

**Base Unit [K3972-3]**

- Extraction Hose with adapter - 8 ft. (2.4 mm) length with 1-3/4 in. (45 mm) I.D.
- LongLife-H main filter
- HEPA filter
- Carbon Brushes (set of 2) and seals for motor

**One-Pak® Package [K4260-2]**

- Extraction Hose with adapter - 8 ft. (2.4 mm) length with 1-3/4 in. (45 mm) I.D.
- LongLife-H main filter
- HEPA filter
- Carbon Brushes (set of 2) and seals for motor
- EN 20 Extraction Nozzle

**MINIFLEX FIVE-STAGE FILTRATION PROCESS**

A Stage 1: Air passes through a removable and washable pre-filter (KP2390-3) where heavier particles and foreign material are captured in the collection tray.

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

C Stage 3: Air passes through the LongLife-H filter (KP2390-1) where welding fume particles are captured and deposited.

D Stage 4 (optional): Activated carbon filter (KP2389-1) will help prevent or neutralize the release of odors back into the environment.

E Stage 5: Final filtration as air passes through the HEPA E12 Class Filter (KP2390-4).

Miniflex Filter One-Pak® (KP2390-5)
Package contains the LongLife Filter (KP2390-1) and HEPA Filter (KP2390-4)
Easily adapt your portable weld fume extraction unit to many different welding applications.

**RECOMMENDED ACCESSORIES**

- **EN 20 Extraction Nozzle**
  - Order K2389-5
- **SHFA Flat Suction Nozzle**
  - Order K639-5
- **Aluminum Suction 12 in (304.8 mm) Nozzle with Magnetic Mounting**
  - Order K639-1
- **UNM Suction Nozzle for Heavy Smoke**
  - Order K639-6
- **Wall Mounting Bracket**
  - Order K2389-7
- **NKT Nozzle Kit for Standard Welding Torches**
  - Order K2389-3
- **Hose-to-Hose Adapter**
  - Order K2389-10
- **Hose Connection Outlet**
  - Order K2389-2
- **Extraction Hoses**
  - Order K2389-8 16 ft (5 m)
  - Order K2389-9 8 ft (2.5 m)

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Sound Level</th>
<th>Airflow CFM</th>
<th>Power Rating HP</th>
<th>Filter Surface Area sq. ft. (m²)</th>
<th>Input Power Voltage/Phase/ Hertz</th>
<th>Input Current</th>
<th>Dimensions H x W x L in (mm)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miniflex</td>
<td>K3972-3</td>
<td>80 dBA</td>
<td>Low: 95</td>
<td>2.4 (1.2/motor)</td>
<td>118</td>
<td>120/1/50/60</td>
<td>12.0A</td>
<td>29 x 15.6 x 16.8 (736 x 396 x 427)</td>
<td>40 (18.1)</td>
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<tr>
<td></td>
<td>K2497-18</td>
<td></td>
<td>High: 108</td>
<td></td>
<td></td>
<td>230/1/50/60</td>
<td>7.5A</td>
<td></td>
<td></td>
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<tr>
<td>Miniflex One-Pak</td>
<td>K4260-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>120/1/50/60</td>
<td>12.0A</td>
<td></td>
<td>41 (18.6)</td>
</tr>
</tbody>
</table>

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**

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