The X-Tractor® 1GC is a portable, high vacuum-extraction system designed for the removal and filtration of welding fumes. The 1GC is lightweight and portable making it easy to move between multiple welding stations. This machine is ideal for light duty, intermittent use such as maintenance and construction applications. The unique internal and self-contained filter cleaning system sets the X-Tractor 1GC apart from the competition.

THE X-TRACTOR 1GC IS IDEALLY USED FOR LIGHT DUTY WELDING APPLICATIONS:

- Small Fabrication Shops
- Maintenance Facilities
- Small Manufacturing Facilities
- Home Hobbyist

WEIGHT AND DESIGN

The X-Tractor® 1GC is lightweight and portable at only 37 lbs. (17 kg) and can easily be carried anywhere. This unit is ideal for light duty, intermittent use such as maintenance and construction applications.

High vacuum welding fume extraction systems utilize higher pressure of 70-90 in. WG and low volume of 55-115 CFM with an air speed of 4000-5000 ft/min. The air handling configuration of high vacuum equipment allows the use of small diameter rigid duct and small diameter flex hose to easily reach extraction points. This process is design for close proximity source extraction at 2-4 in. from the welding source.

Since the hoses and suction nozzles are smaller than those of low vacuum systems, it is much easier to carry the extraction nozzle and or flex hose into confined spaces (45 ft. maximum distance). The mobility of the hoses allows the main filter unit to be kept at a central location. Due to the low air volume (CFM) extracted, make-up air and negative room air pressures are kept to a minimum when exhausting outside the facility.

WHAT’S INCLUDED:

- Filter (KP2069-1)
- Flexible Hose - 16 ft. (5.0m) long x 1-3/4 in. (45 mm) I.D.
- Two Hose-to-Tube Adapters - 1-3/4 in. (45 mm) to 2 in. (50 mm) and 1-3/4 in. (45 mm) to 1-1/2 in. (38 mm)
- Two spare sets of motor brushes
- Input Power Cord
THE X-TRACTOR® 1GC FILTER CLEANING SYSTEM

The internal manual cleaning system is unique to the X-Tractor® 1GC. Using a customer supplied compressed air source and manual rotation, the internal rotary air jet device supplies a burst of air from inside the filter cartridge. This in turn causes the particulate that has collected on the outside of the filter cartridge to drop into the bottom of the unit. The cover where the flex hose inlet is located is then removed and the particulate can be disposed of by following federal, state, and local environmental regulations.

CABLE SENSOR

The X-Tractor® 1GC comes with a built-in automatic start/stop sensor for reduced energy consumption and non-continuous operating noise. To take advantage of this feature, the welding power source’s work cable or power cable must be laid in the sensor hook (see Figure 3).

When the welding arc starts, the current flowing through the cable creates a magnetic field. The current sensor mounted in the X-Tractor® 1GC behind the loop will sense this field and turn on the machine. Approximately 15 seconds after the welding arc is extinguished the unit will switch off.

Figure 3: Cable Sensor
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 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.

FEARURES:
- **Simple to Configure:** Uses a single fume extraction welding gun or suction nozzle attachment.
- **Filter Cleaning System:** Unique rotary air jet system allows the polyester filter to be cleaned using compressed air without removing it from the X-Tractor 1GC.
- **Automatic Start/Stop Sensor:** Provides extraction only when needed, extends motor life, and reduces energy consumption.
- **Quiet Operation:** Operates at a sound level of <74dBA

BENEFITS OF THE X-TRACTOR® 1GC:
- **Cleaner work environment:** Reduces fumes and particulate in the operator and surrounding work areas.
- **Low maintenance:** Simple and 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.

X-TRACTOR 1GC TECHNICAL DATA:
- **Extraction Capacity:**
  - Low Speed: 55 CFM
  - High Speed: 115 CFM
- **Input Power (Voltage/Phase/Hertz):**
  - K652-1: 120V/1/50/60
  - K652-2: 230V/1/50/60
- **Input Current:** 15A (120V), 9A (230V)
- **Dimensions - H x W x D:**
  - 13.4 x 26.8 x 15.8 in (340 x 680 x 400 mm)
- **Weight:** 37 lbs. (17 kg)
- **Processes:**
  - Stick, TIG, MIG, Flux-Cored
- **Product Number:**
  - K652-1, K652-2

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