

# ***X-TRACTOR<sup>®</sup>*** ***3A, 5A, 8A***

*HIGH VACUUM, LOW VOLUME FUME EXTRACTION SYSTEMS*



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



# **X-Tractor® 3A, 5A, 8A**

WELDING FUME EXTRACTOR

## EXTRACTION CAPACITY

Welding Fume Extractor	Suction Nozzle Capacity	Fume Gun Capacity
X-Tractor 3A	1	3
X-Tractor 5A	3	5
X-Tractor 8A	5	8

Note: Number of extraction nozzles/fume guns that can be connected to each system is directly related to the overall lengths of duct and flex hose used for connection.

The self-contained X-Tractor® weld fume extraction units are specifically designed for the removal and filtration of welding fume. These high vacuum, low volume systems are engineered to provide suction for multiple nozzles and fume guns and feature an integrated automatic self-cleaning filter system. They are ideally suited for continuous use in heavy duty welding applications.

## X-TRACTORS® ARE IDEALLY USED FOR:

- ▶ Welding

## RECOMMENDED ACCESSORIES

- ▶ 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
- ▶ UNIM Suction Nozzle for Heavy Smoke K639-6
- ▶ SHMS-400 Low Noise Nozzle K639-4

## CONNECTION KITS

- ▶ X-Tractor 3A K3968-1
- ▶ X-Tractor 5A/8A K3969-1

\*More accessories can be found in the E1.10

## A CLOSER LOOK

High vacuum welding fume extraction systems utilize high pressure of 70-90 Water Column (inch) and low volume of 50-100 Cubic Feet per Minute 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 flexhose to easily reach extraction points. It is perfect for applications such as short welds when using fume suction nozzles or larger fixture welding using integrated fume extracting guns. This process is designed for close proximity source extraction from 2-4 in. to the welding source.

Since the hoses and suction nozzles are smaller than those of low vacuum systems, it is much easier to carry the fume gun, extraction nozzle and/ or flex hose into confined spaces depending on the type of welding, base material, consumable used and arc time. The mobility of the suction devices 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.

### Automatic Filter Cleaning

The cleaning timer system can be adjusted based on the welding application and usage amounts.

The system consists of a holding tank for compressed air, an air solenoid valve and a timer. The tank is filled with compressed air, the solenoid valve opens at intervals set by the timer, and air is blown into the filter. Particulate stuck on the outside of the filter drops into a dustbin.

### Off-Line Filter Cleaning

In addition to the automatic cleaning function, there is also a built in off-line function that can be programmed for additional cleaning cycles after work hours.

### Automatic Operation

The extraction unit can be configured to operate in an automatic mode, where the extraction system will function based on the welding machine status. This provides extraction demand only when welding is taking place. (Contact Lincoln Electric for connection information).

### Duct System

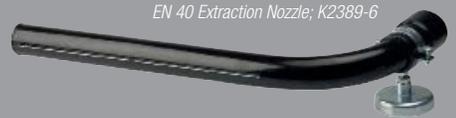
The metal duct system and related accessories are simple to install, leak-proof, and can be configured for up to eight connection points.

The duct system is designed specifically for the layout of the welding facility and takes into account the number of welding stations, welding processes, physical obstacles and overall duct lengths to maintain specific airflow characteristics and provide an efficient and effective solution.

## OPTIONAL EXTRACTION NOZZLES



EN 20 Extraction Nozzle; K2389-5



EN 40 Extraction Nozzle; K2389-6



Aluminum Suction Nozzles with Magnetic Mounting; K639-1 12 in.



SHFA Flat Suction Nozzle; K639-5



UNM Suction Nozzle for Heavy Smoke; K639-6



SHMS-400 Low Noise Nozzle; K639-4



Extraction Hoses; K2389-8, K2389-9

## FEATURES OF X-TRACTORS:

- ▶ **Compact Design-** For easy installation in narrow spaces.
- ▶ **Filter Cleaning System-** Integrated automatic filter cleaning.
- ▶ **Rugged Design-** For industrial use and impact resistance.

## BENEFITS OF X-TRACTORS:

- ▶ **Clean work environment:** Removing welding fumes at the source.
- ▶ **Low maintenance:** Quick disassembly for cleaning and maintenance.



## X-TRACTOR TECHNICAL DATA:

- ▶ **Airflow:** X-Tractor® 3A: 165 CFM  
X-Tractor® 5A: 285 CFM  
X-Tractor® 8A: 475 CFM
- ▶ **Input Power (Voltage/Phase/Hertz):**  
230/3/60, 460/3/60
- ▶ **Input Current:** X-Tractor® 3A: 14A, 6.5A  
X-Tractor® 5A: 20A, 10A  
X-Tractor® 8A: 40A, 21A
- ▶ **Dimensions - H x D:**  
X-Tractor® 3A: 29.1 x 16.9 x 43.3 in.  
(740 x 430 x 1100 mm)  
X-Tractor® 5A: 33.1 x 28.0 x 55.1 in.  
(840 x 710 x 1400 mm)  
X-Tractor® 8A: 43.3 x 28.0 x 55.1 in.  
(1100 x 710 x 1400 mm)
- ▶ **Weight:** X-Tractor® 3A: 192 lbs. (87 kg)  
X-Tractor® 5A: 242 lbs. (110 kg)  
X-Tractor® 8A: 375 lbs. (170 kg)
- ▶ **Processes:**  
Stick, TIG, MIG, Flux-Cored
- ▶ **Product Number:**  
X-Tractor® 3A: K3965-1 230V  
K3965-2 460V  
X-Tractor® 5A: K3966-1 230V  
K3966-2 460V  
X-Tractor® 8A: K3967-1 230V  
K3967-2 460V

## 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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