# X-TRACTOR® 2 FUME GUN

## **FUMES DON'T STAND A CHANCE**



Shown: X-Tractor 2 Fume Gun K5271-1

## **Portable Welding Fume Extractor**

The Lincoln Electric X-Tractor® 2 Fume Gun is a high vacuum extraction system designed for the removal and filtration of welding fume when connected to a welding nozzle, fume gun or robotic on torch application. This unit is a great choice for fume removal in medium to heavy duty welding applications typically used in heavy fabrication, ship building and maintenance shops due to the mobility and self cleaning filters. The X tractor 2 Fume Gun is designed for Industrial high production applications due to the high 180 SCFM with high static pressure and large 160 sq. ft. of self cleaning filter media.

- » High SCFM controlled at the unit (180 SCFM)
- » Large Filter versus the competition
- » 160 sq. ft. of filter media
- » Long lasting, easy to change filter
- » Automatic Self Cleaning

Note: customer supplied compressed air.

#### Processes »

Stick, TIG, MIG, Flux-Cored

## Input »





### Product Number »

K5271-1 X-Tractor 2 Fume Gun 460/3/60 K5271-2 X-Tractor 2 Fume Gun 208-230/3/60 K5271-3 X-Tractor 2 Fume Gun 575/3/60







## **KEY FEATURES**

- » Automatic Self Cleaning
- » VFD Controlled 4 HP
- » SCFM Control at the unit 180 max. SCFM or 150 SCFM when connected to two fume guns.
- » Infinitely variable fan speed control knob
  - Conveniently located on the front panel allowing control of SCFM to ensure shielding gas is not disturbed.

## Unit

- » Particulate Tray Large, self-contained particulate tray for easy emptying
- » Mobile With two large rear wheels, the X-Tractor 2 Fume Gun is easy to move around
- » Minihelic Filter Gauge Differential pressure gauge measures the pressure drop across the filter to monitor filter life and order replacement filters.
- » Easy to Change Filters Easily change filters with a 3/8" hex driver in less than two minutes

## WHAT'S INCLUDED

## **BASE UNIT INCLUDES**

- » MERV 16 (HE), NANO FILTER
- » Automatic Filter Cleaning System
- » (2) torch/hose holder brackets
- » Removable dust bin
- » 20 ft (6M) power cord

## RECOMMEDED ACCESSORIES

Extraction Hoses, 1-3/4 in. Diameter Flexible high temperature hoses with spring steel reinforcement. Standard hose to connect the various extraction devices to the X-Tractor base units.

Order K2389-8 16' (4.8M)

K2389-9 8' (2.4M)

K3492-4 1-3/4" to 2" adapter\*

## **KEY CONTROLS**

- 1. Power On (Light)
- 2. Alarm (Light)
- 3. Fan Running (Light)
- 4. Reset Drive Alarm & Manual Clean
- 5. Start/Stop fan
- 6. Fan Speed Adjustment dial
- 7. Remote start inputs A
- 8. Remote start inputs B
- 9. Main Switch Input Power
- 10. Filter differential pressure gauge



## **High Vacuum Product Application**

High vacuum welding fume extraction systems utilize high pressure of 70-90 inches of water column and low volume of 50-100 cu. ft./min 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 ideal 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. The smaller size of hoses and suction nozzles than those of low vacuum systems, makes it 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.

<sup>\*</sup>Required for use with hose kits, 2 per hose.

## **IDEAL APPLICATIONS**

The X-tractor 2 Fume Gun is a versatile source capture fume extractor that can be used in several applications in conjunction with our other products to create a low cost fume system. The X-Tractor 2 Fume Gun can be used with the following:

## **Fume Guns**



## **On-Torch Robotic Systems**



## **Fume Extraction Nozzles**



## **FUME EXTRACTION GUNS**

The X-tractor 2 Fume Gun is designed to be used with up to two fume guns. With an integrated automatic self-cleaning filter system, it is ideal for welding large parts at a high duty cycle. This can also be used for welding smaller parts on a table in an education environment. The Magnum PRO Fume guns provide a premium fume welding gun experience by placing focus on not only welding performance but also operator comfort. The Infinite SCFM control allows for maximum air flow control to extract the fume without disruption to the shielding gas.





·· Fume gun

For K2389-9 and K4113-8 hose kits, remove the 1-3/4" hose to 1-34" tube adapters and replace with K3492-41-3/4" hose to 2" adapters

## HIGH VACUUM SOURCE CAPTURE FOR COBOT APPLICATIONS

requires two K3492-4 adapters



· X Tractor 2 Fume Gun Extractor connected to Fume Torch Kit

K2389-9 hose kit for 8" K2389-8 hose kit for 16"

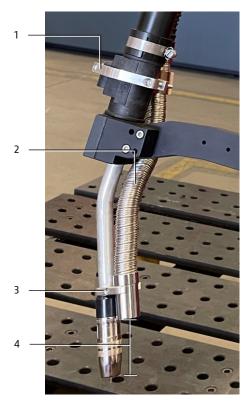
- · Captures 90% of fumes at Source
- · Torch kits available for both air-cooled and water-cooled applications.
- Does not interfere with Cobot functionality

## **KEY FEATURES**

The X-Tractor 2 Fume Gun is an integral part of the On-Torch fume extraction system for robotic applications. Simply attach the on-torch fume extractor to your robotic torch to capture fume at the source. Easily control the SCFM on the front of the unit based on your needs to optimize fume extraction without disturbing the shielding gas. This product pairing creates a cost effective, easy-to-use fume system.

- **High Vacuum** high local pressure where low volumes of air are being extracted.
- Source Capture capture fume at the source without interrupting the shielding gases
- **Energy Efficient** uses a lower SCFM compared to robotic hoods
- Simple to Install kit includes the tools and parts you need for simple set up
- Versatile use with both air and water cooled torches
- **Recommended Applications**
- Low cost alternative that collects the majority of welding fume
- Some exotic materials may require redundant fume extraction where On-Torch can be paired with fume hood
- For robots that require crane access to load the parts and would interfere with a fume hood

- Torch body diameter 1.
- Suction nozzle set 2. formed to the shape of the torch
- Torch goose neck diameter
- Target distance is 75-90mm





Note: Attention needs to be paid to the mechanical envelope around the torch. In some cases, the torch tool path needs to be modified to allow for On-Torch part clearances.

## **ON-TORCH KIT INCLUDES**

- Suction Nozzle set
- Torch Body Clamp
- Torch Neck Clamp
- Hose Clamp
- Cinch Clamp

- Reducer, 25mm 1.75"
- Adapter, 1.75" x 2.0"
- 30 ft. 1.75" Hose for Robot Applications
- 10 ft. 25mm Hose for Cobot Applications

## **FUME EXTRACTION NOZZLES**

Nozzle applications work well with small production parts or educational welding plates that require a small fixed fume extraction area. There are several types of nozzles that can be pared with different part geometry.

#### **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, the EN 20 gives the welder a greater amount of versatility.



## SHM Aluminum Suction Nozzle

Includes S20591-7 adapter for 13/4 in. (45 mm) hose. Best capture distance:~ 1-1/2 in. (38 mm). SHM-300 Nozzle - 12 in. (300 mm)





#### **UNM Suction Nozzle for** Heavy Smoke

8 in. (200 mm) aluminum suction nozzle with magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance: < 4 in. (100 mm)

Order K639-6



#### SHFA Flat Suction Nozzle

150 mm (6 in.) aluminum suction nozzle with 20 in. (500 mm) flexible steel hose and magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance: < 4 in. (100 mm).

Order K639-5

Order K2389-5



#### SHMS-400 Low Noise Nozzle

16 in. (400 mm) aluminum suction nozzle with magnetic mounting. Includes S20591-7 adapter for 1-3/4 in. (45 mm) hose. Best capture distance:~ 1-1/2 in. (38 mm).

Order K639-4

## **RECOMMENDED ACCESSORIES**



sold separately

# NOTE: Gun not included,

### **GENERAL OPTIONS**

#### NKT Nozzle Kit for MIG Guns

The NKT Nozzle Kit provides extraction capacity to a standard MIG welding gun. Nickel plated brass nozzle slips over the gun's gas nozzle and secures with screw.

- Kit includes:
- 1 Nozzle
- 1 Adapter, Hose to Tube, 1 to 1 in.
- 1 Hose, 1 in. (ID), 8 ft.
- 1 Connector, Hose-to-Hose, 1 to 1-3/4 in.

Order K2389-3



Tapered Plug For single fume gun use. Order K5412-1



### Spark Arrestor Kit for Fume Gun

**Application** Mounts to exhaust tube prevent captured sparks from entering the unit.

Order K1898-1



Current activated start/stop sensor Order K2752-4



Extraction hose 1-3/4 in. (45mm) I.D. Order K2389-8 (16 ft. (5 m) Long K2389-9 (8 ft. (2.5 m) Long

## **FILTER REPLACEMENTS**



KP5178-1 FILTER, MERV 11. POLYESTER



KP5178-2 FILTER, MERV 16, Cellulose/Nano



KP5178-3 FILTER, MERV 16, PTFE

## **ON-TORCH KIT FOR COBOT APPLICATIONS**

#### 10 ft. Hose

Product Number	Torch Body Diameter mm (in)	Torch Goose Neck Diameter mm (in)	
AD1389-30	50-70 (1.97-2.76)	18-19 (0.71-0.75)	
AD1389-31		20-21 (0.79-0.83)	
AD1389-32		22-23 (0.87-0.91)	
AD1389-33	68-100 (2.67-3.94)	18-19 (0.71-0.75)	
AD1389-34		20-21 (0.79-0.83)	
AD1389-35		22-23 (0.87-0.91)	

## ON TORCH KIT FOR ROBOT APPLICATIONS

#### 25 ft. Hose

Product Number	Torch Body Diameter mm (in)	Torch Goose Neck Diameter mm (in)		
AD1389-36	50-70 (1.97-2.76)	18-19 (0.71-0.75)		
AD1389-37		20-21 (0.79-0.83)		
AD1389-38		22-23 (0.87-0.91)		
AD1389-39	68-100 (2.67-3.94)	18-19 (0.71-0.75)		
AD1389-40		20-21 (0.79-0.83)		
AD1389-41		22-23 (0.87-0.91)		

#### **FUME EXTRACTION GUNS**

Product Number	Input Current	
K4463-2	250A	
K4464-2	350A	

## **HOSES AND CONNECTORS**

Product Number	Length ft. (m)	Diameter in. (mm)
K2389-8	16 (4.8)	1-3/4 (44.5)
K2389-9	8 (2.4)	1-3/4 (44.5)
K3492-4	_	1-3/4 - 2 in. (44.5 - 50.8) Adanter

## **PRODUCT SPECIFICATIONS**

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current	HxWxD inches (mm)	Net Wt. lbs. (kg)
X-Tractor 2 Fume Gun Base Model	K5271-1	460/3/60	5.2 A	44.8 x 26.1 x 32.3 (1138 x 663 x 820)	335 (152)
	K5271-2	208-230/3/60	105 - 10.3 A		335 (152)
	K5271-3	575/3/60	3.8 A		

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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