

Welding Fume Extraction Hood Solutions

WELD FUME CONTROL AND FILTRATION IN A
FLEXIBLE, ATTRACTIVE PACKAGE



Modular Extraction Hood
shown with optional Leg and
Leg Mounting Kits. Vernon
Tool unit sold separately.

- » *Easy to assemble, install and relocate*
- » *Double-panel roof configuration*
- » *Innovative perimeter pull technology*



Modular Extraction Hood

AN INNOVATIVE AND FLEXIBLE SOLUTION TO
EFFICIENT WELD FUME CONTROL

COMBINING INNOVATION AND SIMPLICITY, THE LINCOLN ELECTRIC MODULAR EXTRACTION HOOD PROVIDES A FLEXIBLE AND EFFICIENT OPTION FOR WELD FUME EXTRACTION IN A WORK ZONE WITH AUTOMATED EQUIPMENT.

The Modular Extraction Hood is an easy to install, customizable enclosure that helps provide a cleaner work environment for a variety of industrial processes. Designed and built to Lincoln's rugged and dependable standards, these units are ideal for robotic and hard automation applications.

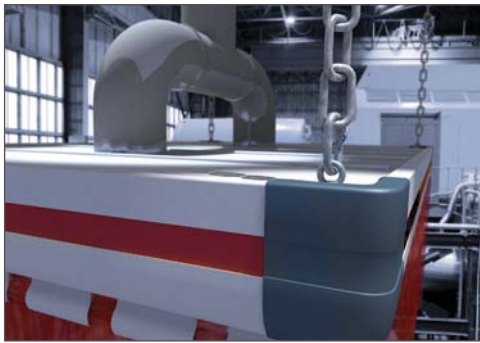
The Modular Extraction Hood is a reliable and practical solution to contain and extract welding, cutting, arc gouging and grinding fume from the work environment.

PROCESSES

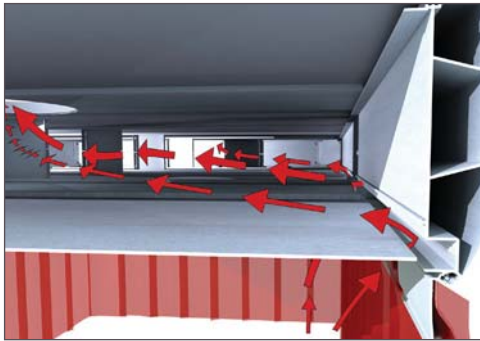
The Modular Extraction Hood is appropriate for use with the following industrial welding and cutting processes: Stick, TIG, MIG, Flux-Cored, Plasma Cutting, Arc Gouging, Grinding¹

For applications in which a worker is inside the work zone, exhaust at the arc or a respirator may be necessary.

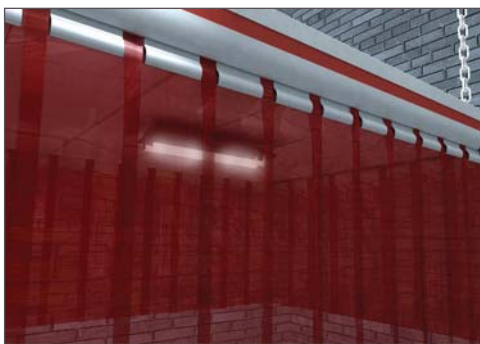
¹ Not suitable when grinding aluminum, magnesium or other materials which may produce explosive dust.



Suspension lugs are a simple and easy way to suspend the Modular Extraction Hood from a ceiling.



Innovative double panel roof design acts as a baffle, deflector plate and spark arrester.



Curtain strips create an isolated work zone, helping to contain sparks and control airflow direction.



System 20 shown with extraction hood, Statiflex® filter bank, optional Power REAM® and light kit.

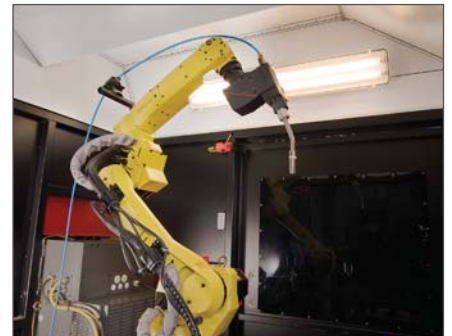
Formed Extraction Hood

SLEEK AND EFFECTIVE SOLUTION TO ROBOTIC CELL FUME EXTRACTION

Pre-designed Structure – Custom formed design provides a smooth, secure fit for every Lincoln Electric robotic welding cell.

Durable Construction – Rugged aluminum framework, built to withstand the high volume production environment of robotic welding applications.

Enhanced Features – Optional interior lighting kit improves visibility for work observation and in-cell maintenance.



Statiflex® Filtration System

QUALITY, SELF CLEANING FILTRATION SOLUTIONS IDEAL FOR A VARIETY OF WELDING APPLICATIONS

Lincoln Electric Statiflex® Filtration systems set the standard in compact, high performance filtration solutions. Designed to work in tandem with Lincoln Electric Extraction Hood systems, the Statiflex® offers powerful and efficient filtration to produce clean, superior air quality in a variety of working environments.

Innovative Design – Multi-flow technology disperses air evenly throughout filters, allowing for efficient, higher volume air flow through each filter.

Superior Filtration – Statiflex® filtration systems offer MERV 16 rated filter cartridges, providing the highest rated self-cleaning filters on the market.

Self-Cleaning – Pulse amplified technology cleans dirty filters through uniform, high energy bursts of air pulsed through each cartridge, providing longer filter life and lower operating costs.

Efficient Controls – Pressure differential switch activates cleaning only when needed, creating lowered energy costs, less maintenance, and extended filter life.

User Friendly – Compact design and quick connect ductwork provides straightforward assembly and installation with a convenient collection bin for easy particulate removal.

STATIFLEX® FILTER BANK

Unit includes filter bank, filters, fan, cleaning controls, starter controls and dust drum.

- User supplies electrical power, compressed air and duct work
- Assembly required
- Sizes ranging from 2 to 48 banks
- Fan sizes 5 – 15 horsepower for extraction hood applications

STATIFLEX® 6000 FILTRATION SYSTEM

Unit includes pre separator, filters, fan, cleaning controls, starter controls and dust drum.

- User supplies electrical power, compressed air and duct work
- Limited assembly required



Statiflex® Filter Bank

Statiflex® 6000



KEY FEATURES

Modular Construction – Customizable modular framework provides a lightweight aluminum structure that is easy to assemble, install and maintain.

Flexible Setup – Installation with standard suspension lugs or an optional leg mounting kit allows for alternative setup options for robotic, hard automation and other applications.

Innovative Design – Double paneled roof creates an integrated safety feature, acting as a built in spark arrestor, deflection plate and in-line baffle.

Efficient Extraction – The Lincoln Electric perimeter pull technology provides a wide extraction area that prevents escaping fumes and provides maximum fume control in the work zone with lower overall airflow rates.

Enclosed Protection – Supplied curtain strips create an isolated work zone, helping to contain sparks and control airflow direction.

MODULAR HOOD

Kit includes: side frames, roof panels, corner mounting brackets and covers, lifting hooks, connection flange, curtain brackets and enough curtain strip for installing 4 ft. lengths around the perimeter of the hood.

- User supplies the duct work
- Assembly required
- Sizes ranging from 3.28 ft. x 4.92 ft. to 18.04 ft. x 18.04 ft. (1 m x 1.5 m to 5.5 m x 5.5 m)

FEATURES:

- **RotaPulsePlus™ Automatic Filter Cleaning System.**

Each time the system is switched off, an automatic cleaning cycle takes place. During this cycle, both filter cartridges are cleaned by compressed air jets from the RotaPulsePlus™ system. The particulate is deposited in the drum beneath the filter.

- **Perimeter pull:** reduces required airflow with innovative design, including a built-in spark arrestor.

BENEFITS:

- **Cleaner work environment:** reduce dust and dirt in operator and surrounding work areas
- **Low cost installation:** free standing or supported from ceiling
- **Custom engineered** to meet facility and application requirements
- **Easy installation:** modular design for ease of assembly
- **Low noise level:** will not contribute to increased noise levels

WELDING FUME EXTRACTION HOOD SOLUTIONS TECHNICAL DATA:

- **Power:** Control box: 115 V, 1 phase; Fan units: 460 V, 3 phase; Fan sized for correct CFM/Airflow: 5 – 15 horsepower
- **Dimensions (Filter and fan):** H x W x D: 213.6 x 47.2 x 96 in (5245 x 1200 x 2438 mm)
- **Weight:** 1764 lbs (800 kg)
- **Maximum noise level:** 68 dB(A) according to ISO 3746
- **Operating temperatures:** Minimum: 68 degrees Fahrenheit (20 degrees Celsius), Maximum: 113 degrees Fahrenheit (45 degrees Celsius)
- **Drum Capacity:** 26 gallons (100 liters)
- **Operating Temperatures:** Minimum - 41°F (5°C); Nominal - 68°F (20°C); Maximum - 113°F (45°C)

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

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.

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