

Modular Extraction Hood and Statiflex® Filter Bank

Weld fume control and filtration in a flexible, attractive package.

Lincoln Electric's new Modular Extraction Hood is engineered to contain and extract welding, cutting, arc gouging, and grinding fume from the work environment. Its innovative design brings a reliable and practical solution to the market. These units are ideal for robotic, hard automation and manual applications.

The Statiflex® Filter Bank is ideal for filtering fume and particulate generated by welding, cutting, arc gouging and grinding. Its higher efficiency, innovative cartridge cleaning system, and modular design make the Statiflex® Filter Bank a more robust filtration solution for your metalworking operations.

Processes

Stick, TIG, MIG, Flux-Cored, Plasma Cutting, Arc Gouging, Grinding⁽¹⁾

⁽¹⁾ Not suitable when grinding aluminum, magnesium or other explosive materials.



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



KEY FEATURES

- **Modular, extruded aluminum construction** - Easy to assemble, install, and relocate.
- **Unique double panel roof configuration** - Acts as an in-line baffle, deflection plate and spark arrestor.
- **Lincoln's innovative perimeter pull technology** - Maximizes fume extraction effectiveness at lower overall airflow rates.
- **Efficient airflow control** - Results in reduced energy consumption and lower capital equipment costs.
- **Modular design** - Allows for cleaning and servicing of key components.
- **Pre-Engineered Filter Banks** - Optimized for each hood's size and airflow requirements.

Modular Extraction Hood Specifications

Recommended Extraction Capacity	Recommended Air Velocity in Connected Duct	Pressure Loss Over Hood
290 - 474 CFM per square meter of hood (27 - 44 CFM per square foot of hood)	2,000 feet/minute (FPM)	max 250 Pa

Statiflex® Filter Bank Specifications

Filter Bank	Filter Type	Fan Sizes
2, 4, 6, or 8 Cartridges	MERV 16 rated filters	1-1/2 HP, 3 HP, 5 HP, 7-1/2 HP, and 10 HP



MODULAR EXTRACTION HOOD

Lifting Lugs

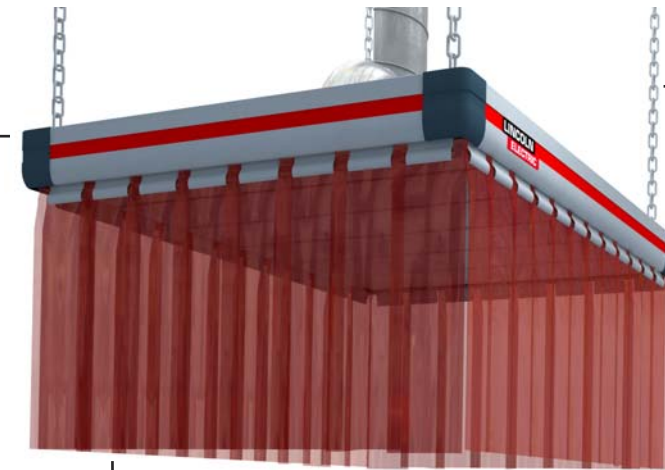


- Simple and easy way to suspend modular extraction hood from ceiling.
- Four lifting lugs standard with each modular extraction hood.

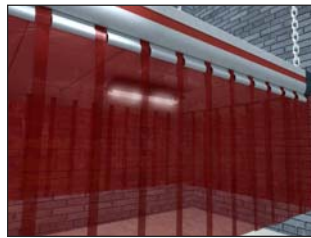
Quick and Easy Access



- Removable side panel for maintenance access.
- Clean or replace ceiling panels where appropriate.



Curtain Strips



- Controls airflow direction.
- Helps prevent cross-drafts.
- Contains fume and sparks inside modular extraction hood area.
- Provides maximum fume extraction effectiveness.
- Supplied with hangers and 50 m (164 ft) length roll of curtain strip.

MODULAR EXTRACTION HOOD HIGHLIGHTS

Unique Baffle Plate Design

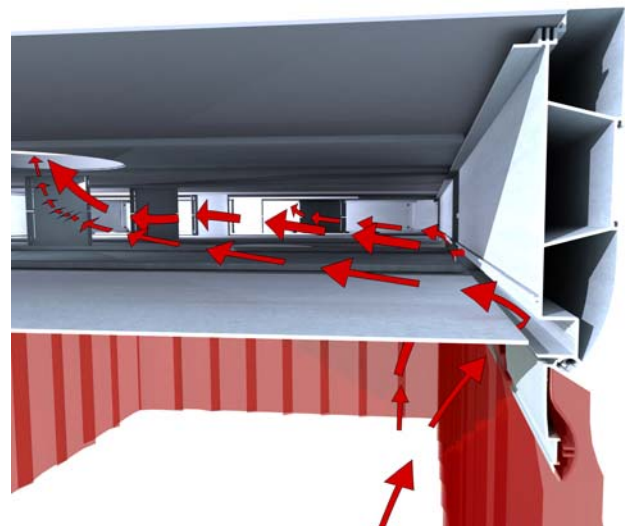
- Innovative double panel roof design acts as baffle, deflector plate and spark arrestor.
- Redirects fume to outer rim for more effective pickup.

Perimeter Pull Technology

- Lincoln's innovative perimeter pull technology maximizes fume extraction effectiveness at lower overall airflow rates.
- Lower airflow rates result in reduced energy consumption and lower capital equipment costs.

Extruded Aluminum Frame

- Extruded aluminum frame provides a very rugged, but lightweight structure.



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

A CLOSER LOOK

STATIFLEX® FILTER BANK

Lincoln's Statiflex® Filter Bank sets the standard for handling industrial welding fume and particulate in a compact, high performance system. Filter banks are available in 2, 4, 6 and 8 bank versions. They are configured with the appropriate exhaust fans, filters, motor controls and cleaning system for each modular extraction hood size.



4 Bank Unit Shown

FILTER BANK HIGHLIGHTS

The Statiflex® Filter Bank technology allows for higher air volume per cartridge, reducing the amount of floor space required for the unit.

1. Multi-Flow Technology

Multi-flow airshield design disperses incoming air evenly throughout the filter bank, resulting in longer filter life.

2. Pre-filter for Safety

In applications where hot sparks might be a risk for damage or fire, such as excessive oil on parts, an optional slide-in pre-filter can be positioned within the inlet for added safety.

3. Filter Cartridges

Lincoln offers MERV 16 rated filter cartridges, the highest rated self-cleaning filter on the market today.

4. Filter Cleaning Controls

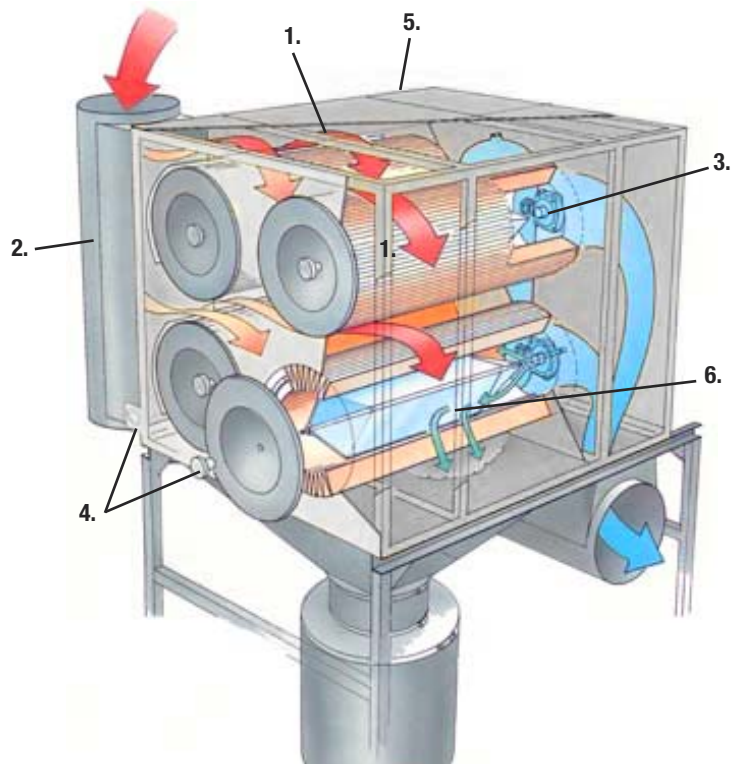
Pressure differential cleaning controls only activate when the filters need cleaning, saving energy costs, reducing equipment maintenance costs and extending filter life.

5. Modular Design

The modular design of the Statiflex® Filter Bank provides for future upgrades in capacity. When your welding operation grows, so can your Filter Bank.

6. Self-Cleaning System

Pulse amplified technology disperses a uniform high energy pulse of compressed air inside every filter cartridge for cleaning. This air pulse releases any dust collected on the surface of the filter cartridge, resulting in longer filter life and lower overall operating costs.



WHAT'S INCLUDED

Modular Extraction Hood: Includes aluminum side frames, roof panels, corner mounting brackets and covers, lifting hooks, connection flange for ductwork, two 25 m (82 ft) rolls of red semi-transparent curtain strip and the appropriate number of curtain brackets. User to supply ductwork. Assembly required.

Statiflex® Filter Bank: Includes filter bank, filters, fan, cleaning controls, starter controls and dust drum. User to supply electrical power, compressed air and ductwork. Assembly required.

ORDERING INFORMATION

Modular Extraction Hood Kit Product Number	Size (W x L) m (ft.)	CFM Required	Statiflex® Filter Bank and Fan Product Number	Description ⁽¹⁾
AD1234-80	1 x 1.5 (3.28 x 4.92)	700	AD1326-1	2 Bank, 3 HP Fan
AD1234-81	1 x 2 (3.28 x 6.56)	950	AD1326-1	2 Bank, 3 HP Fan
AD1234-82	1 x 2.5 (3.28 x 8.20)	1175	AD1326-2	4 Bank, 3 HP Fan
AD1234-83	1 x 3 (3.28 x 9.84)	1400	AD1326-2	4 Bank, 3 HP Fan
AD1234-84	1 x 3.5 (3.28 x 11.48)	1650	AD1326-2	4 Bank, 3 HP Fan
AD1234-85	1 x 4 (3.28 x 13.12)	1900	AD1326-3	4 Bank, 5 HP Fan
AD1234-86	1.5 x 1.5 (4.92 x 4.92)	1050	AD1326-1	2 Bank, 3 HP Fan
AD1234-87	1.5 x 2.5 (4.92 x 8.20)	1750	AD1326-2	4 Bank, 3 HP Fan
AD1234-88	1.5 x 3 (4.92 x 9.84)	2100	AD1326-3	4 Bank, 5 HP Fan
AD1234-89	1.5 x 3.5 (4.92 x 11.48)	2450	AD1326-5	6 Bank, 7-1/2 HP Fan
AD1234-90	1.5 x 4 (4.92 x 13.12)	2800	AD1326-6	6 Bank, 10 HP Fan
AD1234-91	2 x 1.5 (6.56 x 4.92)	1400	AD1326-2	4 Bank, 3 HP Fan
AD1234-92	2 x 2 (6.56 x 6.56)	1900	AD1326-3	4 Bank, 5 HP Fan
AD1234-93	2 x 2.5 (6.56 x 8.20)	2350	AD1326-5	6 Bank, 7-1/2 HP Fan
AD1234-94	2 x 3 (6.56 x 9.84)	2825	AD1326-6	6 Bank, 10 HP Fan
AD1234-95	2 x 3.5 (6.56 x 11.48)	3325	AD1326-7	8 Bank, 10 HP Fan
AD1234-96	2 x 4 (6.56 x 13.12)	3800	AD1326-7	8 Bank, 10 HP Fan

⁽¹⁾ Filter bank and fan combination is designed for maximum airflow efficiency with the indicated Modular Extraction Hood.

RECOMMENDED ACCESSORIES FOR MODULAR EXTRACTION HOOD

GENERAL OPTIONS



Light Kit

115V light kit that easily mounts to ceiling panels.
Order S28058-24



Leg Mounting Kit

Mounting bracket and floor mounting bolts. Qty 2 per kit.
Order S28058-28



Curtain Strip: 25 m Roll

Mounted to the modular hood by means of brackets. Used to optimize airflow in the extraction hood. Dimensions: 25 m (82 ft) length x 300 mm (11.81") width.
Order S28058-53 for red semi-transparent curtain.
Order S28058-59 for green non-transparent curtain.



Leg

Allows modular hood to be floor mounted. Qty 1 leg per part number.
Order S28058-25 for 2.0 m (6.56 ft) length.
Order S28058-26 for 2.5 m (8.2 ft) length.
Order S28058-27 for 3.0 m (9.84 ft) length.



Curtain Bracket Kit

Bracket consists of two parts to fasten and mount welding curtain to extraction hood. Qty 4 brackets per kit. One kit covers 1 m (3.28 ft).
Order S28058-22

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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