

# PRISM HOODS

## FOR AUTOMATED WELDING, MANUAL WELDING OR CUTTING FUME EXTRACTION



Shown: PRISM Robotic Line Hood with PRISM Central System

### Simple. Flexible. Cost Effective.

Manage your production line fume extraction with cost-effective simplicity. Lincoln Electric Prism® hoods are designed to help guide welding and cutting fume towards a central filtration system, and can accommodate a wide range of floorplans, from small shops to large scale automation production lines. Whatever your need, we have a robust, cost-effective solution for you.

**Fume Containment** – Helps keep fume from reaching other production areas within the facility.

**Fume Extraction** – Prism Hoods are designed to be paired with a Prism Central System Filter Bank, working together to extract welding and cutting fume and recirculate clean air throughout the facility.

**Two Options to Fit Your Needs** – Choose the Prism Exhaust Hood for simple square or rectangular footprints with less than two robotic arms. If you have a large production line with unique angles, the Prism Robotic Line Hood is the solution you need, accommodating up to 30 robotic arms, and specifically engineered to fit your space.

Note: 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.

#### Processes »

Stick, TIG, MIG, Flux-Cored, Plasma Cutting, Arc Gouging, Grinding<sup>(1)</sup>

#### Product Numbers »

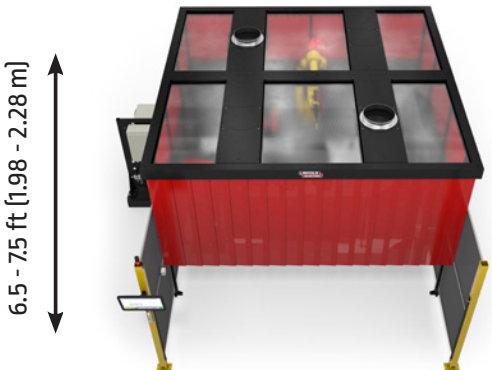
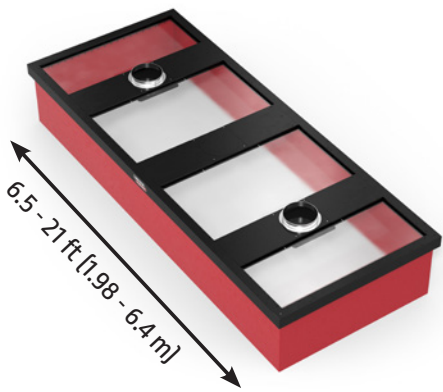
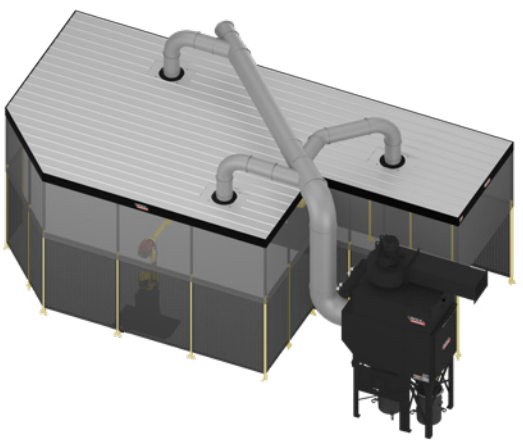
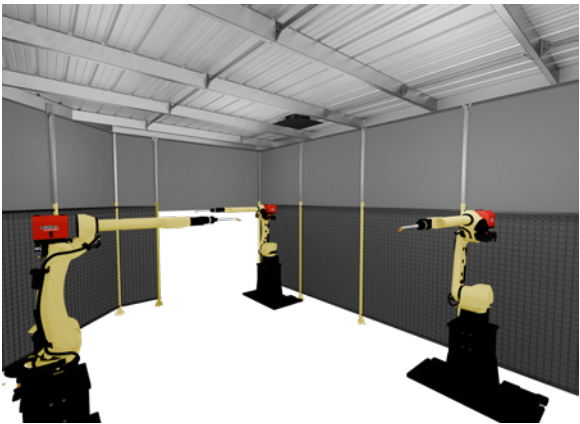
Prism Exhaust Hood  
AD2458-1 – AD2458-48

Prism Robotic Line Hood  
Contact for Quote



<sup>(1)</sup> Not suitable when grinding aluminum, magnesium, or other materials which may produce explosive dust

## WHICH HOOD IS RIGHT FOR YOU?

	Prism Exhaust Hood	Prism Robotic Line Hood
Applications	<ul style="list-style-type: none"> <li>Small automated setups with 1 to 2 robotic arms or manual welding stations</li> <li>Semi-automated welding production cells</li> </ul>	<ul style="list-style-type: none"> <li>Large scale automated production lines with up to 30 robotic arms</li> <li>Large manual welding or cutting areas</li> </ul>
Hood Configuration	<ul style="list-style-type: none"> <li>Simple square or rectangular format</li> </ul>	<ul style="list-style-type: none"> <li>Large production spaces with unique angles</li> </ul>
Installation	<ul style="list-style-type: none"> <li>Modular design</li> <li>48 standard sizes that are designed to be trimmed for an exact fit within a robotic cell</li> <li>Hoods can be mounted side-by-side to span a larger area</li> </ul>  	<ul style="list-style-type: none"> <li>Engineered to fit your space - accommodates unique cell sizes and floor plans</li> <li>Maximum continuous hood span: 20 ft. (6.1 m); larger layouts utilize multiple connected sections</li> <li>More economical and easy to install for setups with 3 or more robots</li> <li>Materials are field cut-to-size and assembled on site by Lincoln Electric approved installers</li> </ul>  

### FEATURES:

- » **Modular Design**
  - Square or rectangular format
  - 48 standard sizes available
  - Connect hoods and expand easily
  - Hoods can be trimmed to size
- » **Clear Polycarbonate Structure**
  - Lightweight
  - Allows ambient light into work area
  - Galvanized roof panel option available
- » **Built-in Safety Features**
  - Efficient air flow
  - Included spark baffle
  - Curtains help prevent arc flash
- » **Mounting Options**
  - Free standing hoods with legs
  - Mounted directly on top of robotic cell
  - Suspended from ceiling

The Prism Exhaust Hood features a modular design that makes it easy to modify and expand the setup as needed. Available in 48 standard square and rectangular sizes, the system is ideal for small automated lines (with fewer than two robotic arms) or semi-automatic welding production cells.



Shown: Prism Exhaust Hood on a Fab-Pak® production cell



Shown: Prism Exhaust Hood on a Fab-Pak production cell paired with a Prism Compact fume extraction unit.



Shown: Prism Exhaust Hood with 2 Fume Removal Vents

### FEATURES:

#### » Engineered to Fit Your Space

- Customized to fit the unique size and floor plan of your production line
- Can accommodate layouts that are not square or rectangular
- Maximum continuous hood span: 20 ft. (6.1 m); larger layouts utilize multiple connected sections.

#### » Standard Construction Materials

- Ribbed ceiling for added structural support

#### » Mounting Options

- Mounted to the Automation Cell
- Stand alone legs
- Suspended from the ceiling

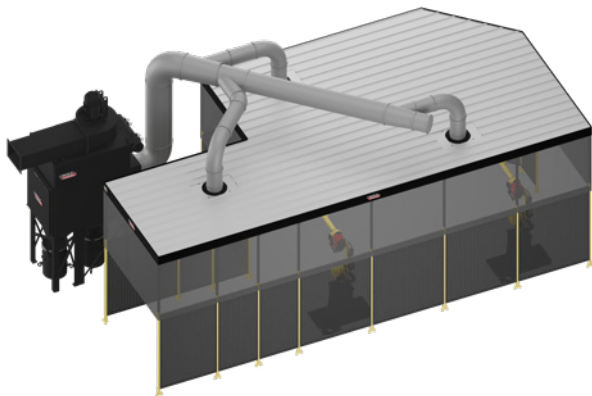
#### » Installed by the Experts

- Materials are field cut-to-size
- Assembled on-site by Lincoln Electric approved installers

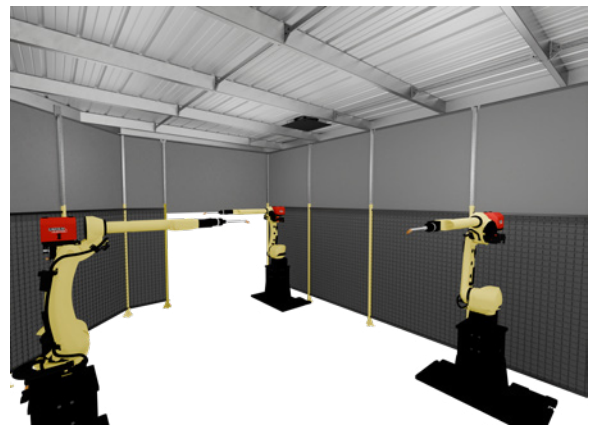
Designed for large scale automated production lines (up to 30 robotic arms), the configured-to-application Prism Robotic Line Hood is engineered to fit a range of production line sizes and unique floor-plans. Utilizing standard construction materials, the Prism Robotic Line Hood is the most economical option for welding production lines with three or more robotic arms.



Shown: Prism Robotic Line Hood paired with a Prism fume extraction unit.



Shown: Prism Robotic Line Hood paired with a Prism fume extraction unit.



Shown: Prism Robotic Line Hood on a 3-arm production cell.

Many other combinations are available to fit your needs. To help configure your fume extraction application, contact our Environmental Experts at:

Call 1-888-935-3878 Option 4 for more information

Email [weldingfumecontrol@lincolnelectric.com](mailto:weldingfumecontrol@lincolnelectric.com)

or visit [www.lincolnelectric.com](http://www.lincolnelectric.com)

## PRISM EXHAUST HOOD SIZES

Part Number	Description	Width ft (m)	Length ft (m)	Area SqFT (sqM)	Number Of Inlets	Weight lbs (kg)
AD2458-1	Exhaust Hood, Prism	6.5 (1.98)	7.5 (2.28)	48.8 (14.87)	1	210 (95)
AD2458-2	Exhaust Hood, Prism	6.5 (1.98)	6.5 (1.98)	42.3 (12.89)	1	192 (87)
AD2458-3	Exhaust Hood, Prism	6.5 (1.98)	11 (3.35)	71.5 (21.79)	2	228 (103)
AD2458-4	Exhaust Hood, Prism	6.5 (1.98)	12 (3.65)	78.0 (23.77)	2	234 (106)
AD2458-5	Exhaust Hood, Prism	6.5 (1.98)	13 (3.96)	84.5 (25.75)	2	258 (117)
AD2458-6	Exhaust Hood, Prism	6.5 (1.98)	15.5 (4.72)	100.8 (30.72)	2	324 (146)
AD2458-7	Exhaust Hood, Prism	6.5 (1.98)	16.5 (5.02)	107.3 (32.70)	2	360 (163)
AD2458-8	Exhaust Hood, Prism	6.5 (1.98)	17.5 (5.33)	113.8 (34.44)	2	432 (195)
AD2458-9	Exhaust Hood, Prism	6.5 (1.98)	18.5 (5.63)	120.3 (36.66)	2	468 (212)
AD2458-10	Exhaust Hood, Prism	6.5 (1.98)	20 (6.09)	130.0 (39.62)	2	492 (223)
AD2458-11	Exhaust Hood, Prism	7.5 (2.28)	7.5 (2.28)	56.3 (17.16)	1	222 (100)
AD2458-12	Exhaust Hood, Prism	7.5 (2.28)	11 (3.35)	82.5 (25.14)	2	240 (108)
AD2458-13	Exhaust Hood, Prism	7.5 (2.28)	12 (3.65)	90.0 (27.43)	2	252 (114)
AD2458-14	Exhaust Hood, Prism	7.5 (2.28)	13 (3.96)	97.5 (29.71)	2	270 (122)
AD2458-15	Exhaust Hood, Prism	7.5 (2.28)	15.5 (4.72)	116.3 (35.35)	2	360 (163)
AD2458-16	Exhaust Hood, Prism	7.5 (2.28)	16.5 (5.02)	123.8 (37.73)	2	432 (195)
AD2458-17	Exhaust Hood, Prism	7.5 (2.28)	18.5 (5.63)	138.8 (42.06)	2	456 (206)
AD2458-18	Exhaust Hood, Prism	7.5 (2.28)	20 (6.09)	150.0 (45.72)	2	480 (217)
AD2458-19	Exhaust Hood, Prism	6.5 (1.98)	7.5 (2.28)	48.8 (14.87)	1	260 (117)
AD2458-20	Exhaust Hood, Prism	6.5 (1.98)	6.5 (1.98)	42.3 (12.89)	1	242 (109)
AD2458-21	Exhaust Hood, Prism	6.5 (1.98)	11 (3.35)	71.5 (21.79)	2	303 (137)
AD2458-22	Exhaust Hood, Prism	6.5 (1.98)	12 (3.65)	78.0 (23.77)	2	322 (146)
AD2458-23	Exhaust Hood, Prism	6.5 (1.98)	13 (3.96)	84.5 (25.75)	2	346 (156)
AD2458-24	Exhaust Hood, Prism	6.5 (1.98)	15.5 (4.72)	100.8 (30.72)	2	424 (192)
AD2458-25	Exhaust Hood, Prism	6.5 (1.98)	16.5 (5.02)	107.3 (32.70)	2	473 (214)
AD2458-26	Exhaust Hood, Prism	6.5 (1.98)	17.5 (5.33)	113.8 (34.44)	2	557 (252)
AD2458-27	Exhaust Hood, Prism	6.5 (1.98)	18.5 (5.63)	120.3 (36.66)	2	593 (268)
AD2458-28	Exhaust Hood, Prism	6.5 (1.98)	20 (6.09)	130.0 (39.62)	2	630 (285)
AD2458-29	Exhaust Hood, Prism	7.5 (2.28)	7.5 (2.28)	56.3 (17.16)	1	281 (127)
AD2458-30	Exhaust Hood, Prism	7.5 (2.28)	11 (3.35)	82.5 (25.14)	2	328 (148)
AD2458-31	Exhaust Hood, Prism	7.5 (2.28)	12 (3.65)	90.0 (27.43)	2	355 (161)
AD2458-32	Exhaust Hood, Prism	7.5 (2.28)	13 (3.96)	97.5 (29.71)	2	373 (169)
AD2458-33	Exhaust Hood, Prism	7.5 (2.28)	15.5 (4.72)	116.3 (35.35)	2	478 (216)
AD2458-34	Exhaust Hood, Prism	7.5 (2.28)	16.5 (5.02)	123.8 (37.73)	2	564 (255)
AD2458-35	Exhaust Hood, Prism	7.5 (2.28)	18.5 (5.63)	138.8 (42.06)	2	603 (273)
AD2458-36	Exhaust Hood, Prism	7.5 (2.28)	20 (6.09)	150.0 (45.72)	2	642 (291)
AD2458-37	Exhaust Hood, Prism	6.5 (1.98)	5.5 (1.67)	35.75 (10.9)	1	175 (79)
AD2458-38	Exhaust Hood, Prism	7.5 (2.28)	5.5 (1.67)	41.25 (12.57)	1	195 (88)
AD2458-39	Exhaust Hood, Prism	6.5 (1.98)	9 (2.74)	58.5 (17.80)	1	245 (111)
AD2458-40	Exhaust Hood, Prism	7.5 (2.28)	9 (2.74)	67.5 (20.54)	1	270 (122)
AD2458-41	Exhaust Hood, Prism	6.5 (1.98)	10 (3.04)	65 (20)	2	265 (120)
AD2458-42	Exhaust Hood, Prism	7.5 (2.28)	10 (3.04)	75 (22.83)	2	300 (136)
AD2458-43	Exhaust Hood, Prism	6.5 (1.98)	14 (4.26)	91 (27.7)	2	370 (168)
AD2458-44	Exhaust Hood, Prism	7.5 (2.28)	14 (4.26)	105 (31.9)	2	385 (174)
AD2458-45	Exhaust Hood, Prism	6.5 (1.98)	8.5 (2.58)	55.25 (16.83)	1	235 (106)
AD2458-46	Exhaust Hood, Prism	7.5 (2.28)	8.5 (2.58)	63.75 (19.42)	1	255 (116)
AD2458-47	Exhaust Hood, Prism	7.5 (2.28)	21 (6.40)	157.5 (48)	2	510 (231)
AD2458-48	Exhaust Hood, Prism	7.5 (2.28)	21 (6.40)	157.5 (48)	2	560 (254)

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.

Lincoln Electric Product Claim - Weld fume control products manufactured by The Lincoln Electric Company are designed to be utilized as an engineering safety control to aid in achieving adequate ventilation while conducting welding or its allied processes. The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, and the specific welding procedure and application involved. When the equipment is used as designed - and when properly installed, operated and maintained - it can be a valuable and effective tool to help employers maintain adequate ventilation in the workplace. Lincoln Electric defines adequate ventilation as that which is required to maintain occupational exposure levels below the applicable exposure limits when sound work practices are utilized. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits. Welding operations may produce hazardous gases such as carbon monoxide, oxides of nitrogen, and ozone. This equipment is designed to remove welding fume particulate, not gases. Ensure that adequate make-up air ventilation is provided to the workspace to prevent potential overexposure to these gases [see AWS Fact Sheet No. 36].

Lincoln Electric, weld fume control, products are highly effective at decreasing the occurrence level of thermal events, however thermal events can still happen even if the system is operating as designed.

#### CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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