

PRISM COMPACT

Compact Welding and Cutting Air Filtration System

The Prism® Compact welding fume extraction system delivers less noise, lower costs and maximum results to customers in need of a solution for space constraints.

COMPACT SIZE

- Can be placed directly next to a cutting table or robotic cell
- Reduced height for areas with space constraints

QUICK AND SIMPLE INSTALLATION

- Crane-less assembly
- Lincoln Smart Connect™ technology results in quick and seamless wire connectivity to the robot
- Connect power, compressed air and duct sensor for fan speed control

QUIET OPERATION

- Silencer and sound deadening materials drastically reduces airflow noise
- Equipped with a variable speed drive that adjusts extraction airflow to application
- Intelligent fan control technology maximizes fume extraction, conserves energy and extends equipment life

SIMPLE MAINTENANCE

- System automatically starts cleaning process once pre-set pressure differential is reached
- Vertical filter orientation allows for more efficient cleaning
- Particulate will be collected into the 25 gallon dust bin
- Alarm notifies maintenance to change filters

ADDED SAFETY

- Integrated spark arrestor
- Optional Prism Thermal Suppression System



Shown
Prism Compact
Fume Extraction
Unit w/ Inlet Up,
AD2455-3

Shown
HEPA Kit for
Prism Compact,
AD1258-1

Processes

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

Input



Industries Served

- Automation
- General fabrication
- Heavy fabrication
- Education
- Automotive

What's Included

- Filtration Unit
- Dust Collection Bin
- Exhaust Fan
- Fully Integrated Controls
- Exhaust Silencer
- Integrated Spark Arrestor

Key Accessories

- Prism Compact Spark Arrestor Pre-Filter KP4680-1
- Prism MERV 11 Filter (Black Strap) KP4519-1
- Prism MERV 16 Filter (White Strap, Nano) KP4519-2
- Prism MERV 16 Filter (Red Strap, PTFE) KP4519-3
- Prism MERV 11 Filter, Oil Resistant (Gray Strap) KP4519-4
- Prism MERV 16 Filter, Oil Resistant (Orange Strap, NANO) KP4519-5
- HEPA Kit Prism Compact AD1258-1
- HEPA Filter KP5555-1

MACHINE SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/ Hertz	Motor Horsepower	Input Current Amps	Number of Filters	Airflow CFM	Inlet Diameter in (mm)	Clearance Needed	Filter Cleaning Control	HxWxD in (mm)	Weight lb (kg)
Prism Compact 5 HP	AD2455-1	380-480V/3 ~50-60Hz	5 HP	75	4	2400 @ 8 in.w.g.	1 on back pointing up @ 45° 16 (406)	3.5 ft min for front 1.5 ft min for 1 side	Pressure based	114 x 45 x 70 (2896 x 1143 x 1778)	1563 (709)
Prism Compact 10 HP	AD2455-2		10 HP	14		4000 @ 10 in.w.g.				114 x 45 x 72 (2896 x 1143 x 1829)	1630 (739)
Prism Compact 5 HP	AD2455-5		5 HP	75		2400 @ 8 in.w.g.	1 on back pointing down @ 45° 16 (406)			114 x 45 x 70 (2896 x 1143 x 1778)	1563 (709)
Prism Compact 10 HP	AD2455-6		10 HP	14		4000 @ 10 in.w.g.				114 x 45 x 72 (2896 x 1143 x 1829)	1630 (739)
Prism Compact 5 HP w/Prism Thermal Suppression	AD2455-3		5 HP	75		2400 @ 8 in.w.g.	1 on back pointing up @ 45° 16 (406)			120 x 53 x 70 (3048 x 1345 x 1778)	1661 (753)
Prism Compact 10 HP w/ Prism Thermal Suppression	AD2455-4		10 HP	14		4000 @ 10 in.w.g.				120 x 53 x 72 (3048 x 1345 x 1829)	1727 (783)
Prism Compact 5 HP w/Prism Thermal Suppression	AD2455-7		5 HP	75		2400 @ 8 in.w.g.	1 on back pointing down @ 45° 16 (406)			120 x 53 x 70 (3048 x 1345 x 1778)	1661 (753)
Prism Compact 10 HP w/ Prism Thermal Suppression	AD2455-8		10 HP	14		4000 @ 10 in.w.g.				120 x 53 x 72 (3048 x 1345 x 1829)	1727 (783)
Prism Compact 5HP Outdoor	AD2455-9		5 HP	75		2400 @ 8 in.w.g.	1 on back pointing up @ 45° 16 (406)			108 X 45 X 70 (2743 X 1143 X 1829)	1563 (709)
Prism Compact 10HP Outdoor	AD2455-10		10 HP	14		4000 @ 10 in.w.g.				114 x 45 x 70 (2896 x 1143 x 1829)	1630 (739)
Prism Compact HEPA Kit ¹	AD1258-1	-	-	-	2	-	-	-	None	54.4 x 45.2 x 31.2 (1382 x 1148 x 793)	302 (137)

(1) Compatible with 10HP indoor units only

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 it's 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.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and 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 for any updated information.

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