

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

- Ships pallet-less
- 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 20-gallon dust bin
- Alarm notifies maintenance to change filters

ADDED SAFETY

- Integrated spark arrestor
- Optional Prism™ Thermal Suppression System



Shown
AD2455-3

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 Thermal Suppression System

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 w/Filters 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)	1600 (726)
Prism Compact 10 HP	AD2455-2		10 HP	14		5000 @ 10 in.w.g.				114 x 45 x 72 (2896 x 1143 x 1829)	1652 (749)
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)	1600 (726)
Prism Compact 10 HP	AD2455-6		10 HP	14		5000 @ 10 in.w.g.				114 x 45 x 72 (2896 x 1143 x 1829)	1652 (749)
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)	1745 (792)
Prism Compact 10 HP w/ Prism Thermal Suppression	AD2455-4		10 HP	14		5000 @ 10 in.w.g.				120 x 53 x 72 (3048 x 1345 x 1829)	1797 (815)
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)	1745 (792)
Prism Compact 10 HP w/ Prism Thermal Suppression	AD2455-8		10 HP	14		5000 @ 10 in.w.g.				120 x 53 x 72 (3048 x 1345 x 1829)	1797 (815)

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 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.

Lincoln Electric is a responsive manufacturer, but 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.

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