

# PRISM<sup>®</sup> THERMAL SUPPRESSION



The Prism Thermal Suppression system mitigates risk of thermal events caused by welding and cutting particulate entering the fume extraction unit. This fully integrated fire suppression system is UL-listed, FM-approved and a recommended option by Lincoln Electric.



**Mitigates Thermal Risks**



**Added Safety in the Workplace**



**Easy System Maintenance**

## Key Features

- Factory Installed
- Simple to Use – Ties into Existing PLC
- Integrated with the Prism Filter Bank and Prism Compact
- Discharge will not be triggered by a false alarm notification
- Refillable at Certified Distributor Locations

## Specifications and Maintenance

- A semi-annual inspection is to be performed by a certified distributor
- Tank Size: 6.32 In. (Diameter) x 17.68 In. (Height) x 300 In<sup>3</sup> (Volume); 10 Lb. (Agent)
- Normal operating pressure: 195 psi
- Refilling locations available at 500+ Firetrace<sup>®</sup> distributors

## How It Works in 4 Steps

- 1 The smoke detector detects smoke in the system
- 2 The inlet damper and exhaust close to fix the air volume in the filtration unit
- 3 The detection tubing bursts if temperature exceeds 212°F
- 4 The suppressant is discharged from the nozzles into the unit
- 5 Replace the tubing and suppressant, have the system inspected and reset and you are back up and running.

Industries Served	Available Installation	Suppressant Type*
<ul style="list-style-type: none"> <li>• Automotive</li> <li>• General Fabrication</li> <li>• Heavy Fabrication</li> <li>• Education</li> </ul>	<ul style="list-style-type: none"> <li>• Prism 4</li> <li>• Prism 8</li> <li>• Prism 12</li> <li>• Prism 16</li> <li>• Prism Compact</li> </ul>	<ul style="list-style-type: none"> <li>• Novec Clean Agent Suppressant</li> <li>• ABC Dry Chemical</li> </ul>



Detection Tubing

Suppressant Discharge Nozzle\*

Exhaust Damper

Smoke Detector

Warning / Diagnostic Stack Light

Inlet Damper

Suppressant Canister

\* 4-bank units have upper and lower nozzles, larger banks have 1 or 2 upper nozzles.

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.

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.

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.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.



Shown: Prism Compact with Prism Thermal Suppression