

RoboVent FloorSaver

A Revolutionary Air Filtration Solution For Robotic Welding Cells

The RoboVent[®] FloorSaver Robotic Welding Air Filtration System is a compact, self-contained system that cleans and recycles smoke-contaminated air generated in robotic welding cells. All equipment components including the pulse cleaning functions are controlled by the RoboVent ePad, a programmable touch-screen controller, which is mounted on the cell guarding for easy operator access. The RoboVent FloorSaver returns clean air to the plant, helping to maintain a healthy work environment.

The Sure Solution for Cleaner Air – We Guarantee It!

- **Maximum Flexibility:** Each weld cell gets its own, dedicated RoboVent FloorSaver. This means that plant layout changes and equipment moves can be done very simply.

- **Reduced Down-Time:** By dedicating one filtration unit to each weld cell, the RoboVent FloorSaver distributes the job of cleaning the air. This eliminates the possibility of total system failure, and greatly reduces production delays and down-time during routine maintenance.

- **Saves Floor Space:** Each RoboVent FloorSaver is installed on top of the weld cell, supported by a heavy-duty stand. Costly floor space is saved, allowing 20% - 40% more room for production equipment.

- **Works on Virtually All Weld Cells:** The RoboVent FloorSaver system can be installed on most existing weld cells using your existing enclosure or guarding. Our customized Flexan Hood System makes installation easy and cost-effective. And the clear polycarbonate top increases the light and visibility inside the cell.

- **Effective Cleaning:** The RoboVent FloorSaver's enclosed system captures contaminated air at the source, and removes airborne contaminants. It filters out the impurities and returns clean air to the workplace.

- **Preventative Maintenance:** RoboVent systems utilize the PowerFlex System, a very powerful self-cleaning system that requires minimal maintenance. Our WeldEx filters are pre-treated with an oil absorbing filter-friendly element (pre-coat) and we use pleated filters for high media area and more effective filtration. Additionally, RoboVent offers a comprehensive preventative maintenance program to protect your investment and to ensure that your system operates safely and efficiently.

- **Virtually Eliminate the Risk of Fire:** The proprietary RoboVent SparkOut System is designed to greatly reduce the risk of fires in the duct and filtration equipment. It has effectively prevented fires in hundreds of robotic and automatic weld cells since 1996. For additional fire prevention, we also offer the RoboVent Supprex-200 Fire Suppression System.

RoboVent FloorSaver System

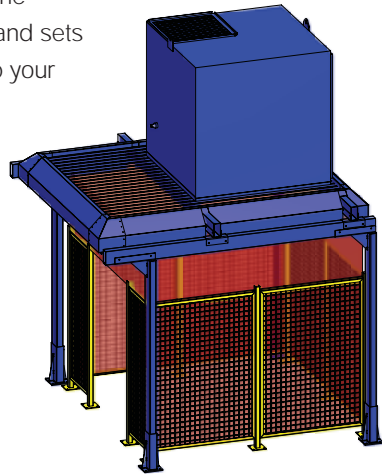
U.S. Patent #4,610,704



This system is covered by one or more of the following patents: #6,758,875; #4,610,704 and other patents pending. Due to continued engineering, all specifications are subject to change without notice.
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• **SafeSensor:** The SafeSensor particulate monitoring system detects a leak past your filters. If a leak occurs, the system shuts the equipment down and sets off an alarm. Keep your people safe!



• **Warranty:** All RoboVent equipment carries a warranty for six months parts and labor, five years for all standard components (one year for all optional components), and ten years for the cabinet (see Great Lakes warranty policy for details). An Extended Warranty is available with purchase of a Great Lakes preventative maintenance program.

Available Options:

- **Stand (mounted to robot base):** The stand that supports the RoboVent equipment may be mounted to the robot base rather than the floor, making the system easier to move.
- **Parts Hood:** Add a small hood to your system, which can be mounted over your parts bin to capture smoke from parts that may still be smoking after being welded.
- **Light Fixture:** One or more 4' fluorescent light fixtures may be mounted inside the RoboVent hood to provide additional light for technicians or operators. Light is wired into main control panel.
- **AutoSaver:** Allows the RoboVent system to automatically turn on when the welder strikes an arc, and turn off after 5 minutes of no operation. Mounts in the standard control panel and senses power usage of the welder.
- **E-Drive:** The E-Drive System uses a sensor to constantly monitor the airflow, and then using a VFD, it automatically adjusts the RPM of the motor to compensate for filter loading. Energy peaks and valleys are evened out, 20% - 30% of energy is saved and filter life is extended as much as 30%. The result is a system that is quieter, operates at maximum operating efficiency and saves you money.
- **Suppress-200:** The Suppress-200 Fire Suppression System is engineered to our exacting high standards for safety and effectiveness. Suppress is a dual stage system activated by smoke and heat. If heat is detected, FM-200 gas is released to extinguish the fire. With Suppress-200 System there is little or minimal clean-up after a fire.
- **Mezzanines for Additional Storage:** Complete your RoboVent hood, large or small, by turning the top of the hood into a mezzanine for added storage space.
- **Man Cooling Fan:** A 12" man cooling fan can be mounted on the front of the hood for operator comfort. The fan is wired into the main control panel.
- **Manual Touch-up Station:** Add a small "backdraft" vent to capture smoke from any manual touch-up welding done on parts outside of the robotic welding cell.
- **Custom Retractable Hoods:** Our team can build a motorized retractable hood that is custom engineered around your manufacturing processes for ease of use and safety. (For use in areas with overhead cranes.)

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