Clean Air Solutions for Robotic Welding & Cutting
**Going robotic? Leave the clean air to us.**

If you’re designing and installing new robotic welding & cutting cells, you’ve got enough on your plate without worrying about dust collection and air quality regulations. RoboVent can help. We offer clean air solutions that are easy to install and simple to integrate with any robotic welding system.

RoboVent has been the leader in clean air solutions for robotic welding for more than 25 years. We build safety, energy savings and efficiency into every piece of equipment we make. With more than a dozen offices across North America and a growing presence worldwide, we can be wherever you are.

Our Spire and Streamline Hood combination provides a standalone dust collection system easily integrated into a complete robotic welding package. They are easy to install, easy to move and powerful enough for all of your robotic welding applications. Looking for a traditional ducted system? We’ve got you covered there, too. Install it yourself, or ask us about installation options. No matter what system you choose, you can rest assured it will come with RoboVent’s quality guarantee.

So give us a call to find out how easy it is to integrate RoboVent clean air solutions into your robotic welding plans.

**Breathe easy.**
The answers you're looking for are here.

History of RoboVent..............................

Our Quality Guarantee............................

Fume Extraction Options for the Automotive Industry

- Spice Configuration.......................... 6-7
- Grid Configuration.............................
- FloorSaver Configuration........................
- Traditional Ducted Configuration............

Configuration Comparison.......................

Energy Savings and Control Systems
eTell Intelligent Controls.......................14-15

eDrive Automatic VFD...........................

Fire Mitigation

- Delta3 Spark Arrestance.......................17
- Suppr ex-200 Fire Suppression...............17

Filters and Maintenance

- RMO Filters......................................18

ClientCare Solutions.............................19
**Spire™: Powerful filtration with the smallest footprint in the industry.**

If you’re using robotic welding cells, Spire may be the right system for you. Spire is perfect for factory environments where space is at a premium. Spire is a flexible, cost-effective alternative to centralized ducted systems.

Each Spire unit can provide effective filtration for an individual or multiple welding cells. It’s a powerful system that can keep up with the heavy demands of robotic welding in a high-production factory.

Spire features:

- **Small footprint:** Our floor-saving design takes up about the same amount of space as a wire barrel.

- **Built-in spark arrestance:** Our proprietary Delta3™ spark arrestance system comes standard with every unit for superior fire safety.

- **Very low maintenance:** Everything is easily accessible for fast filter changes and maintenance—no special tools required. And our proprietary eTell™ system makes maintenance headache-free.

- **Flexibility:** Since the Spire units have a very small footprint, it’s easy to find space for them. And whenever you need to change your floor configuration, Spire is easy to move right along with your welding cell.

**Spire Configuration**

Here is a sample plant layout with 11 welding cells - each with its own Spire fume collector ducted to the Streamline Hood that is above each cell.
**Spire**
- Small Footprint
- Built-in Spark Arrestance
- Very Low Maintenance
- Flexible

**Delta3™ SparkOut**
Our proprietary Delta3 spark arrestance system comes standard with every Spire unit for superior fire safety. Delta3 uses centrifugal force to eliminate sparks at the source before entering the ductwork, or worse, the filter cabinet.

**eTell™ Intelligent Controls**
Each Spire unit comes standard with eTell, a revolutionary control system that learns your systems and routines, makes automatic adjustments to save energy and extend filter life. Push notifications and custom alerts are triggered when maintenance is needed.

**SafeSensor™ Particulate Monitoring**
SafeSensor is the Spire’s advanced particulate-monitoring device that can detect leaks past the filters. If one should occur, SafeSensor will shut the equipment down and trigger an alarm.

**Internal Hopper**
Dust is collected in easy-access dual internal hoppers. Just connect a standard shop vac to the 2” (50.8 mm) clean-out ports to remove the particulate from the internal hoppers. You could also connect these ports to a vacuum system for continuous removal of the dust.

**eDrive™ Automatic VFD (optional)**
The eDrive constantly monitors airflow and automatically adjusts the motor RPM to compensate for filter loading. Energy peaks and valleys are evened out and energy usage is cut by 20% to 30%, while filter life is extended by as much as 30%.

**Supprex200™ Fire Suppression System (optional)**
This is a dual-stage system activated by smoke and heat. If smoke is detected, a fire damper closes, stopping all airflow and oxygen supply. If heat is detected, FM-200 gas is deployed, instantly suppressing the fire.

**Fusion Series**
Like a mini Spire, the single cartridge Fusion collector is perfect for small robotic cells.
The RoboVent Streamline Hood: We’ve Got You Covered

The RoboVent Streamline hood is a simple solution for robotic welding and cutting cells. It’s available in a variety of sizes to accommodate single or multiple robot systems and many configurations including turntable, ferris wheel and headstock/tailstock. Our modular design makes installation and modification quick and easy. The Streamline hood uses economical standardized parts that can be easily assembled, disassembled and reused. And everything is built with RoboVent quality for exceptional durability.

Features and Options:

- Comes in eight standard sizes, from 5’ x 5’ (1.52 m x 1.52 m) to 20’ x 20’ (6.10 m x 6.10 m). Larger sizes available on demand.
- The entire unit ships flat for easy transport, delivery and storage.
- Low profile is perfect for environments with overhead cranes.
- Hood mounts directly to guarding.
- Interior cross-supports can accommodate lighting fixtures.
- Optional crane slots allow cranes to be used without fumes escaping.
- Optional duct connector hooks into your existing dust collection system.
- Optional spark arrestance system (Delta3) can be integrated into the duct connector for increased fire safety.
FloorSaver™ Configuration: 
A stacked solution for maximum floor space.
Maximize your floor space! The RoboVent FloorSaver System stacks the collector right on top of the weld cell hood. With built-in spark arrestance and powerful filtration, FloorSaver provides dedicated air filtration for each weld cell. The innovative stacked configuration frees up 20%-40% more floor space for other equipment.

Traditional Ducted Configuration: 
Optimal performance for today
Our traditional ducted solutions are engineered to meet your exact needs today. While less flexible than our grid system, a traditional configuration maximizes performance with ductwork sized for optimal airflow for your specific applications. Choose from a wide range of options, ranging from full-plant systems with large indoor or outdoor collectors or smaller units ducted to a specific cell or group of cells.

Configuration Comparison

<table>
<thead>
<tr>
<th></th>
<th>Traditional Ducted</th>
<th>FloorSaver</th>
<th>Spire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible</td>
<td>★</td>
<td>★★★★★★</td>
<td>★★★★★★</td>
</tr>
<tr>
<td>Operating Cost</td>
<td>★★★</td>
<td>★★★★★★</td>
<td>★★★★★★</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>★★★★★★</td>
<td>★★★★★★</td>
<td>★★★★★★</td>
</tr>
<tr>
<td>Ease of Cleaning</td>
<td>★★★</td>
<td>★★★</td>
<td>★★★★★★</td>
</tr>
</tbody>
</table>

An Option for Everyone
We know that no two clients are the same, and we are committed to finding the right solution for today...and tomorrow. In addition to our space-saving Spire configuration, you can also choose from our traditional ducted configurations and our FloorSaver system.
Improving Lives through Clean Air™

ROBOVENT.COM • 888.ROBOVENT
INFO@ROBOVENT.COM

Manual Welding Fume Extraction
Integrated Cooling Equipment
Robotic Welding Fume Collection
Maintenance Programs
Oil Mist Extraction
Full-Plant / Ambient Air Cleaning Systems
Dust Collection Systems
Mobile Dust Collectors
Laser & Plasma Cutting Fume Collection
Aftermarket Replacement Filters
Robotic Welding Fume Collection
Full-Plant / Ambient Air Cleaning Systems
Mobile Dust Collectors
Laser & Plasma Cutting Fume Collection
Aftermarket Replacement Filters
Robotic Welding Fume Collection
Full-Plant / Ambient Air Cleaning Systems
Mobile Dust Collectors
Laser & Plasma Cutting Fume Collection
Aftermarket Replacement Filters
Robotic Welding Fume Collection
Full-Plant / Ambient Air Cleaning Systems
Mobile Dust Collectors
Laser & Plasma Cutting Fume Collection
Aftermarket Replacement Filters
Robotic Welding Fume Collection
Full-Plant / Ambient Air Cleaning Systems
Mobile Dust Collectors
Laser & Plasma Cutting Fume Collection
Aftermarket Replacement Filters