



CLEAN AIR SOLUTIONS

Polar Industrial Plastics Clears the Air



“RoboVent was fast and professional to work with. We got our price quote right away and everything went smoothly with the installation.”

— Ryan Gowing, Vice President, Polar Industrial Plastics Ltd.

Polar Industrial Plastics Ltd., located in Edmonton, Alberta, makes high-performance piping systems and other industrial components out of plastic and fiberglass. They came to RoboVent in the winter of 2015 to address air quality issues in their fiberglass fabrication facilities.

The Problem

In order to bond fiberglass, workers must first sand it to roughen the surface. This creates a fine dust that can cause inflammation and reduce lung function when inhaled. The dust also gets everywhere, creating a work area that is both visually unappealing and uncomfortable.

Because the parts that Polar works with are very large, working under a hood to contain the dust wasn't feasible. A large roof fan ventilation system helped to suck out some of the visible dust, but created a noisy environment and resulted in significant heat loss during the cold Alberta winters. Because ventilation was inadequate, workers had to wear uncomfortable respiratory protection equipment while working with the fiberglass.

The RoboVent Solution

Polar contacted RoboVent for a better solution. Our engineers first evaluated the work area to determine the needs. Polar has eight grinding areas with a total area of 50' by 180' and a 22' ceiling. The large space required a powerful ventilation system that would continually pull fiberglass dust out of the ambient air.

We installed two RoboVent Vortex DTS-5000 units in phase one, and plan to install two more units in phase two. The proprietary Vortex system creates a circulating airflow to effectively capture and filter particulates. Clean air is then re-introduced to the plant, conserving energy and protecting workers.

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Polar Industrial Plastics

The system creates a plant-wide environmental vortex that turns the air at a consistent and steady rate. Nozzles can be adjusted directionally towards the main grinding areas to maximize efficiency. The turnkey package was fast and easy to install, with Phase 1 completed in just one day.

The Result

Workers noted an immediate difference in air quality, visible dust and comfort. The work area is cleaner and more appealing for employees and visiting guests. Workers are also happy to be able to work without wearing respiratory protection and without the added noise of the old roof fan. With the dust under control, there are fewer worker concerns about health and safety and morale is noticeably higher.

"You can just walk in and visually see how much better it is," says Vice President Ryan Gowing. "And we'll really appreciate the energy savings this winter. This was the right choice for our workers and company."



Number of
Lives Improved
through Clean Air at



**Polar Industrial
Plastics:**

12

Improving Lives through Clean Air.™

At RoboVent, clean air is more than our business—it's our passion. We are driven by the knowledge that the work we do directly impacts the health, safety and quality of life for thousands of manufacturing workers in the U.S. and around the globe. We've already helped to improve the lives of 60,000+ people with our clean air remedies, and this year we hope to help 10,000 more.

Our goal is to increase productivity in manufacturing environments by improving the lives of the people.

For more information visit www.RoboVent.com/cleanair.

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Improving Lives through Clean Air.™