

Dust Control in the Baking Industry: A Case Study with Campbell Systems Inc.

Overview

Glenn Campbell, founder of **Campbell Systems Inc. (CSI)**, partnered with Aerodyne Environmental to solve persistent ingredient dust challenges faced by wholesale bakeries across the USA, Canada, and South America. These bakeries were experiencing growing concerns related to flour and cornmeal dust—ranging from sanitation costs to safety and regulatory compliance. To address these concerns efficiently and economically, CSI deployed Aerodyne's GPC-20 and GPC-24 dust collectors.

Challenge

Wholesale bakeries face strict operational and regulatory pressures:

- **Combustible Dust Risk:** Wheat flour is classified as combustible under OSHA regulations.
- **Ingredient Waste:** Escaped flour and cornmeal dust results in material loss and increased operating costs.
- **Sanitation Burden:** Dust buildup demands frequent cleanings, increasing labor and downtime.
- **Filter Overload:** Traditional baghouses face excessive loading, leading to higher maintenance and compressed air usage.



Solution: Aerodyne GPC-20 & GPC-24 Dust Collectors

CSI selected Aerodyne's GPC line for its compact footprint and advanced cyclonic separation performance:

- **GPC-20 and GPC-24 cyclones** installed at multiple client locations
- Designed to remove up to **95% of dust particles** before reaching filters
- Flexible installation in tight spaces without compromising capacity

Results & Benefits

By implementing Aerodyne's GPC cyclones, CSI and its bakery clients achieved measurable improvements:

- **Ingredient Recovery:** Significant material savings by capturing flour for reuse
- **Improved Filter Life:** Reduced dust load extends the life of baghouse filters
- **Lower Maintenance:** Less filter cleaning and replacement
- **Reduced Operating Costs:** Decreased compressed air usage for pulse-cleaning
- **Enhanced Compliance:** Meets OSHA standards for combustible dust
- **Compact Design:** Fits easily into existing layouts, both horizontally and vertically

Testimonial

"The Aerodyne GPC cyclone allows me to offer a compact cyclone that minimizes waste by capturing and recycling fugitive ingredient dust, thereby saving money! It's a great selling feature!"

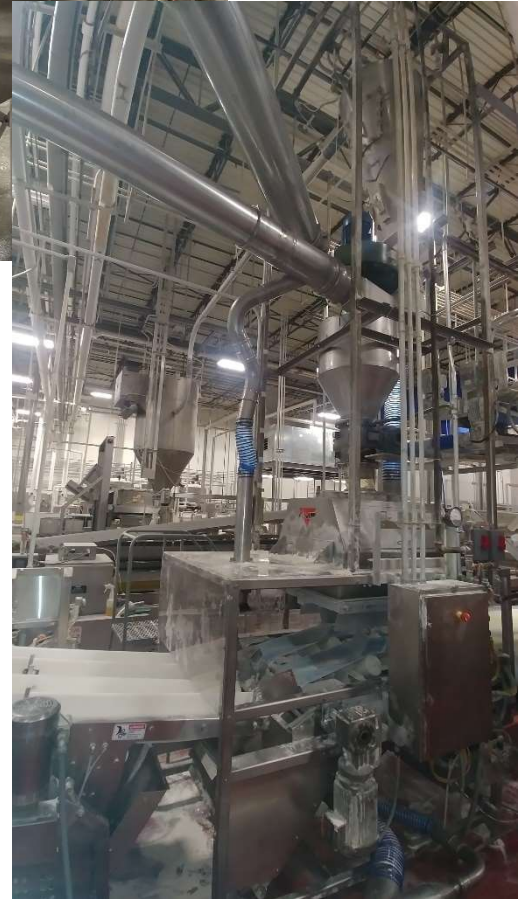
— Glenn Campbell, Founder, Campbell Systems Inc.

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Conclusion

By implementing Aerodyne's GPC cyclones, Campbell Systems Inc. helped wholesale bakeries across the Americas meet stringent dust control standards while simultaneously reducing costs and improving efficiency. Aerodyne's design proved especially effective in food environments where cleanliness, reliability, and compliance are non-negotiable.

Aerodyne: Cleaner air. Smarter design. Proven results.



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