

Aeolus Technologies: Channels

Aeolus Technologies



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Company Profile:

Aeolus Technologies Ltd was formed in 2009 to commercialise and identify further applications for the patented Whirlwind system, developed originally for enhanced pipework product recovery and CIP technology.

The SME markets, develops, tests and installs Whirlwind systems for the process industry sector.

The technology is sold directly to individual end users as a bespoke unit, tailored to specific client requirements, using fully automated control and requiring minimal maintenance.

The Whirlwind System is an innovative CIP technology that uses controlled **vortex airflow** to clear, clean and dry the inside of processing pipeline.

The system works through a four phase clearing, cleaning and drying process:

- Product is pushed through the pipework using a laminar air stream: recovery 90-95%
- A vortex airflow is introduced into the pipework increasing recovery to 95-99%
- A small amount of water is introduced into the whirlwind and the turbulent air/water mix cleans the inner surfaces of the pipework
- Vortex airflow used to dry the pipework ready for production start

The technology is ready for market with a number of installations already in place, primarily in the food and drink sector. Current applications include alcohol, soft drinks, sauces, food pastes and perfumes.

At its in-house laboratory facility the company can undertake customer trials and tests developments of the vortex technology.



The Whirlwind system installed at Glenmorangie consisting of three core pieces:

- Whirlwind unit
- Blower unit
- Electrical control box

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The Whirlwind system is sold as a premium bespoke product that is tailored for the specification of the client's process plant, and can be used as a standalone technology for product recovery and cleaning system, or integrated with existing CIP technology.

The value proposition for the technology incorporates a range of solutions for different customer groups within the client company, namely

- Operations and process engineers: enhanced performance and reduced maintenance
- Financial directors: enhanced product recovery and reduced operational costs
- Environmental managers: significant reductions in water and chemical use waste/effluent generation and energy consumption

However, with the escalating political emphasis on reducing energy and water consumption, it is the resource efficiency aspects of the technology that are becoming increasingly attractive to companies, not only in order to reduce costs, but as essential components of their CSR strategies.

Many of the larger companies now outsource their resource efficiency strategy and planning to third party engineering and consultancy companies. In addition to direct marketing to end users, therefore, Aeolus Technologies has begun to **collaborate successfully with these first tier service suppliers**.

For example, the company worked closely with Chemical Engineering Consultants, Allen Associates, who were responsible for the design and installation of the new Glenmorangie bottling plant in Livingston, Scotland. The Whirlwind System is used to recover product across all of the lines in operation from tanker delivery to the bottling line filler and collaboration with Aeolus Technologies helped Allen Associates fulfil their targets for water and energy consumption.