



### Cereal Success

**BVC**, the market leader in cleaning solutions has completed an installation for a major cereal producer at one of their UK production facilities, installing a Centralised Vacuum Cleaning System within their raw materials silo/processing building.

The brief from the customer included:-

Ensure dust levels are minimised to meet the requirements of the area classification under the ATEX Directive.

Ensuring cleanliness acceptable to meet the stringent requirements of Health & Safety legislation for manufacturing foodstuffs.

Provide a system to serve numerous floor levels with the collection of product to a central point for ease of disposal.



The **BVC** solution:-

Design for a single operator system using 51mm bore flexible hose and tools, suitable for removing organic grain dusts and small granulate. The 8 point system serves numerous floors from silo tops, silo discharge, processing and sieving equipment down to the ground floor where product is transferred to production employing blow pots.

Extracted materials are separated from the conveying air stream within the filter separator which has fabric antistatic media cleaned by the reverse jet technique. As the extracted materials are organically based products there is a potential risk of an explosion, therefore the filter separator is designed with a pre-determined vessel strength. This explosion panel is vented directly to atmosphere and is provided with a rupture indicator to shut down the system immediately if activated.

Motive air for the system is generated by an exhauster package, which is powered by a 5.5 kW motor located on a self-tensioning drive arrangement and guard filter with pressure differential switch. All assembled within a forced draft acoustic enclosure reducing noise emission levels to below 70 dB(A).

The areas within the clients building are classified ATEX Zone 22 with No Zone (Safe Area) externally to the building in which the plant has been installed.

For further details please visit our website [www.quirepace.co.uk](http://www.quirepace.co.uk)

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