

# SILOJET 27 SILO VENTING

## Reverse Jet Cleaned Cartridge Filter Units



### Overview

The Silo Venting filter unit is principally used on sealed silos to filter the dust laden displaced air generated by the process of filling the silo by lorry loading tankers. Cleaned air is allowed to discharge back into the atmosphere, whilst retaining the dust on the outside surface of the filter elements within the sealed process. Each row of filter cartridges are continuously cleaned in sequence by a jet of compressed air released from the header tank controlled by a reverse jet station. The jet of compressed air rapidly inflates the inside of the filter element, dislodging the dust cake from the outside surface.

The Silo Venting filter unit uses the same technology developed for the Cartrijet range of filter units applied successfully on many installations throughout the UK.

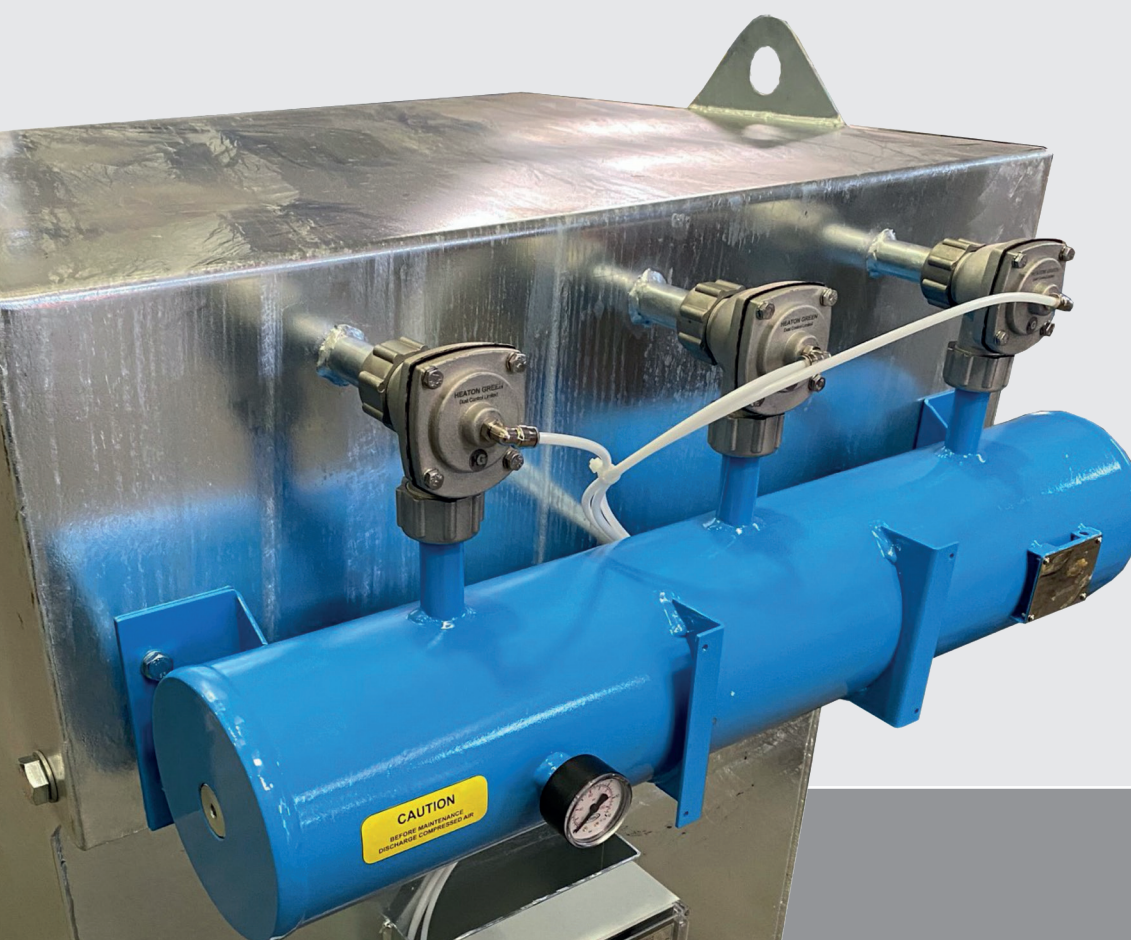
Typical applications include cement and aggregate silos in cement batching plants, limestone and mineral silos in an animal feed plant and flour silos in food plants.

Other applications can be applied to this filter unit providing each one is considered on merit before selection.

- Filter area 27m<sup>2</sup>
- Robust fully welded 4mm steel construction
- Hot dipped galvanised finish providing excellent corrosion resistance
- Hinged lid for ease of maintenance
- Range of filter media available to suit different applications
- Highly efficient pulse jet cleaning system
- Compact physical size
- Fully weatherproofed units as a standard option
- Paint finish option available
- Fan assisted version available

## Standard Specification

<b>Construction of filter body</b>	4mm mild steel fully welded hot dipped galvanised construction with hinged lid to allow easy access for changing of cartridges
<b>Filter elements</b>	6 x Non woven spun bonded polyester in a pleated form forming 27m <sup>2</sup> of filter area
<b>Compressed air header tank</b>	Certified header tank according to CE directives 87/404 & 90/488. Temperature range -10 to +55°C. Maximum pressure 8 bar. 1" BSP connection.
<b>Compressed air requirements</b>	8.4m <sup>3</sup> /hr @ 6 bar. Requires clean, dry oil free supply at quantity indicated to ISO8573-1 Class 1.4.1. We recommend the fitting of a pressure regulator in the compressed air line prior to the filter unit header tank to ensure that the pressure level of 6 bar is not exceeded to prevent potential damage to the filter elements. The fitting of an oil and water trap is also recommended.
<b>Diaphragm valves</b>	¾" diameter port, aluminium diecast body with nitrile seals. Pressure range 30-860 kPa. Temperature range -40 to +82°C
<b>Sequential controller</b>	Solid state PCB. Two electronic timers allow adjustment for duration of pulse and interval between pulses. Voltages of 110v, 220v and 240v AC single phase 50Hz can be accepted by the board in all cases giving a 24v output to the pilot valves. IP65 Polycarbonate enclosure.
<b>Net Weight</b>	135 kilos



## Planning in Drawing

