

World wide sales companies



The world leader in air pollution control

Dantherm Filtration focuses on individual solutions for individual customer needs. We benefit from the experience and expertise of more than 30,000 air cleaning systems. And we deliver unbeatable reliability, low energy consumption and compliance with all mandatory require-

ments for a wide range of applications in many different industries all over the world.

Dantherm Filtration is a part of Dantherm Group - a leader in industrial air management, offering industrial cooling,

heating, dehumidification, ventilation, air filtration and mobile air management. The Group has 3,000 employees and operates globally with production and sales companies in Europe, US and Asia.



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SiloSafe Cardridge Filter



The SiloSafe 24 design is based upon years of experience selling and servicing silo venting filters, hours of discussions with silo manufacturers and meetings with silo purchasers and cement silo operators.

SiloSafe 24 & SiloSafe 24F

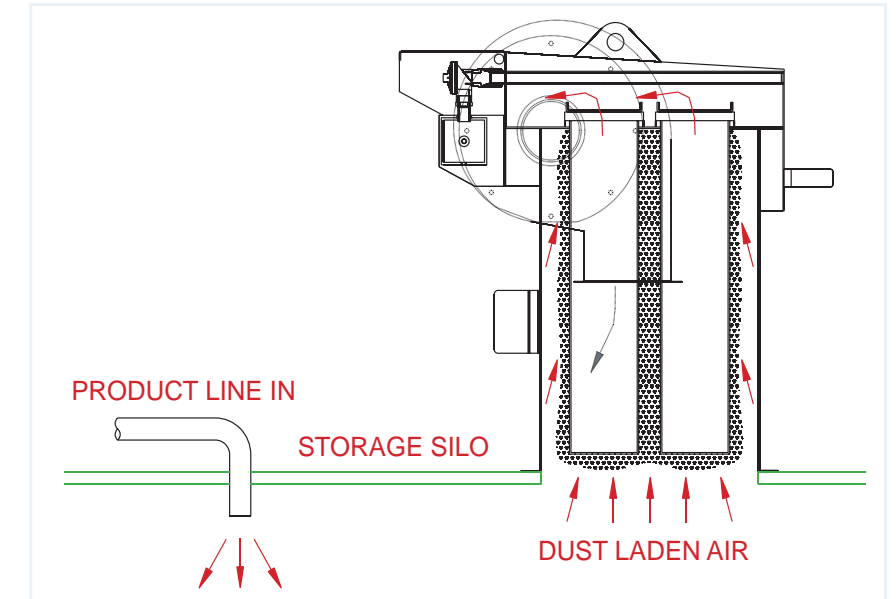
The SiloSafe 24 is a pulse-jet filter specifically suited for use on silos that are pneumatically filled by road tankers.

The primary benefits to customers are:

- Long, corrosion free service due to a hot-dip galvanized finish.
- The strength to stand up to abuse from overfills and over pressure due to the 4 mm fully-welded steel construction. Suitable for use with ATEX certified vessels handling potentially explosible dust. Design reduced explosion pressure = 0.75bar (Test Pred = 1.35bar).
- Enough filter area (24 m²) to handle virtually all materials delivered pneumatically to silos.
- Safe maintenance due to a low profile and top-removal cartridges.
- Enhanced cleaning, higher efficiency and longer cartridge life with DISA's patented Unclean cartridges.
- Lower spares prices as there are only six cartridges to change. Re-fitting cartridges in a SiloSafe 24 is less than half the price of some comparable filters.

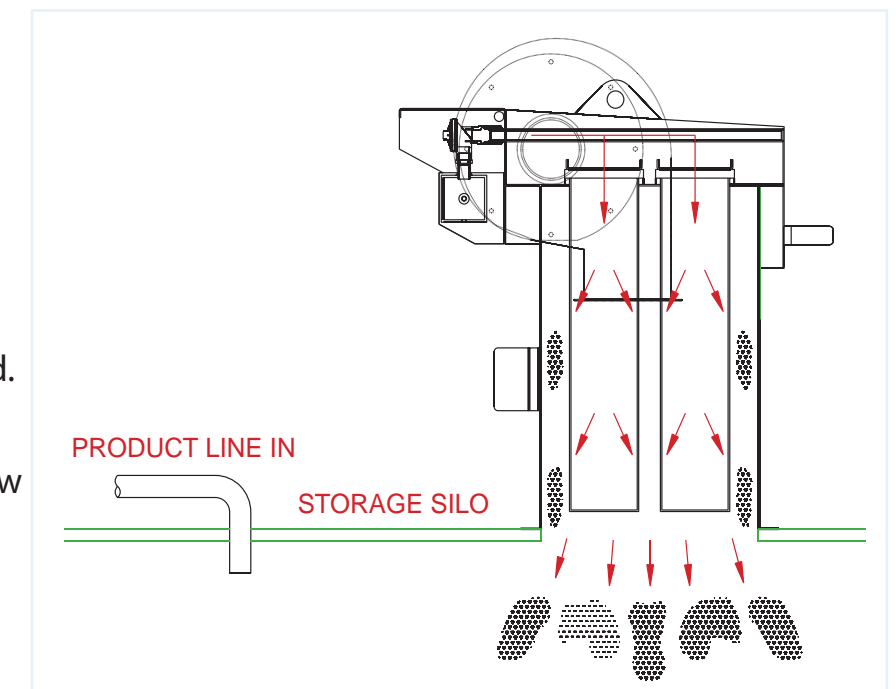
...during normal operation

1. The dust laden air travel into the silo through the product line in.
2. The fan (shown in dots) pulls the dust laden air through the cartridges of the Silosafe 24 Fan.
3. As the Silosafe 24 Fan filters the out flowing air, the dust collects on the outside of the cartridges.
4. Clean air is then exhausted from the Silosafe 24 Fan.



...while off-line cleaning

1. The Silosafe 24 Fan utilizes a compressed air cleaning system.
2. A compressed air line must be connected to one end of the compressed air manifold.
3. Once the fan is turned off, a solenoid valve opens to allow compressed air from the compressed air manifold into the jet tube. The jet tubes are aligned above each cartridge.

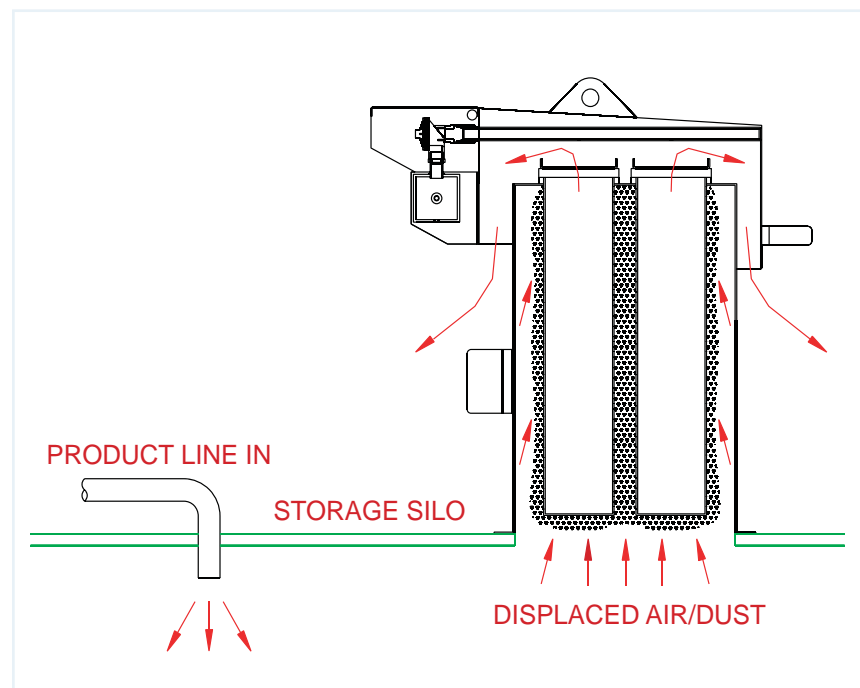


SiloSafe

How the SiloSafe 24 Works

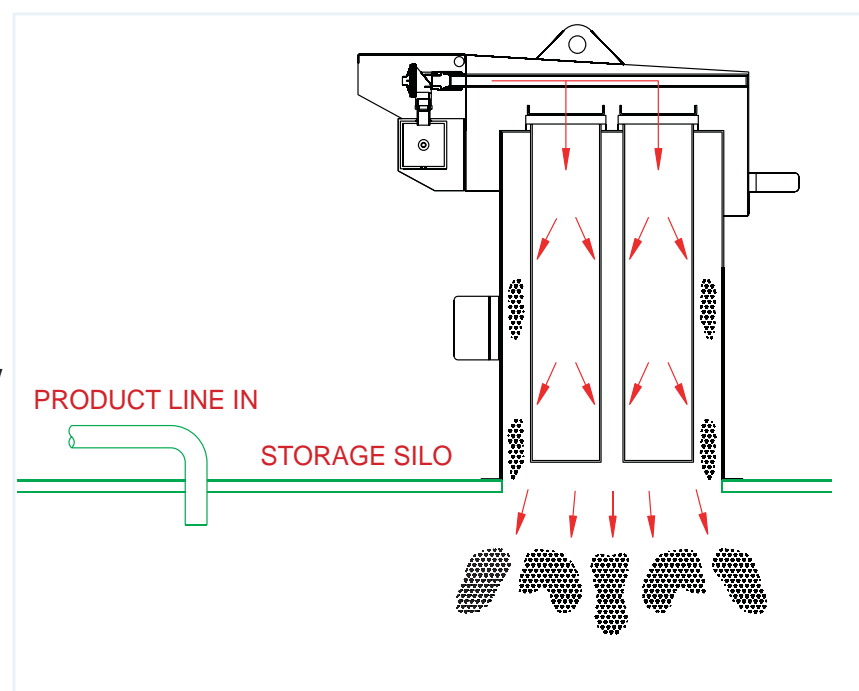
...during normal operation

1. The dust laden air travels into the silo through the product line in.
2. The displaced air travels through the cartridges in the Silosafe 24 Vent.
3. As the Silosafe 24 Vent filters the out flowing air, the dust collects on the outside of the cartridges.
4. Clean air is then exhausted from the Silosafe 24 Vent.



...while off-line cleaning

1. The Silosafe 24 Fan utilizes a compressed air cleaning system.
2. A compressed air line must be connected to one end of the compressed air manifold.
3. Once the fan is turned off, a solenoid valve opens to allow compressed air from the compressed air manifold into the jet tube. The jet tubes are aligned above each cartridge.
4. The downward blast blows the dust off the cartridges (from the inside out) where it settles back into the silo.



Specification

Product Type: cased, reverse jet cleaned cartridge filter, with base mounting flange for silo venting applications, with natural or fan assisted ventilation.

General construction: hot rolled mild steel, 4mm thick, fully welded fabrication, hot dip galvanised.

Principal fittings: stainless steel or galvanised.

For use with potentially explosible dust: design Reduced Explosion Pressure (Pred) = 0.75 bar (tested to Pred = 1.35 bar).

Filter cartridges: thermal bonded pleated polyester tubular cartridges incorporating Uniclean enhanced cleaning insert.

Individual cartridge filter area: 4m²
Standard media: CA100 polyester. (others available)
Total no. of cartridges: 6
Total filter area: 24m².

Reverse jet cleaning: single 8.6 litre steel compressed air reservoir.
Max. working pressure: 7.0 bar.
Test pressure: 13.0 bar.

Normal cleaning pressure for cartridges: 5.5 bar.
Compressed air consumption (typical): 60 Normal litres per pulse.

For standard 10 sec. interval between pulses, this is equivalent to 5.4 Nm³/h for continuous operation over typical duty cycle.

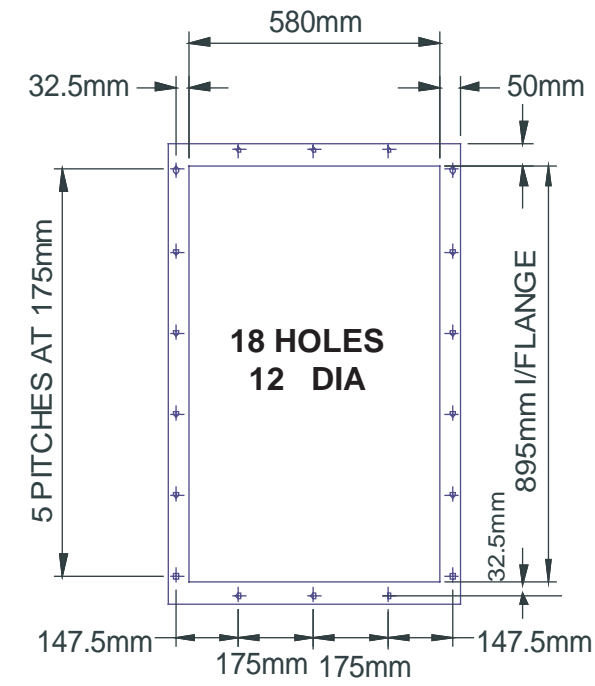
Cleaning valves: combination 1" diaphragm / solenoid valves, 110v AC.
Number of cleaning valves: 3 Each valve services 2 cartridges.

Reverse jet timer: (typically) 6-way printed circuit board housed in IP65 enclosure.
Short circuit protection: 1amp. circuit board fuse.

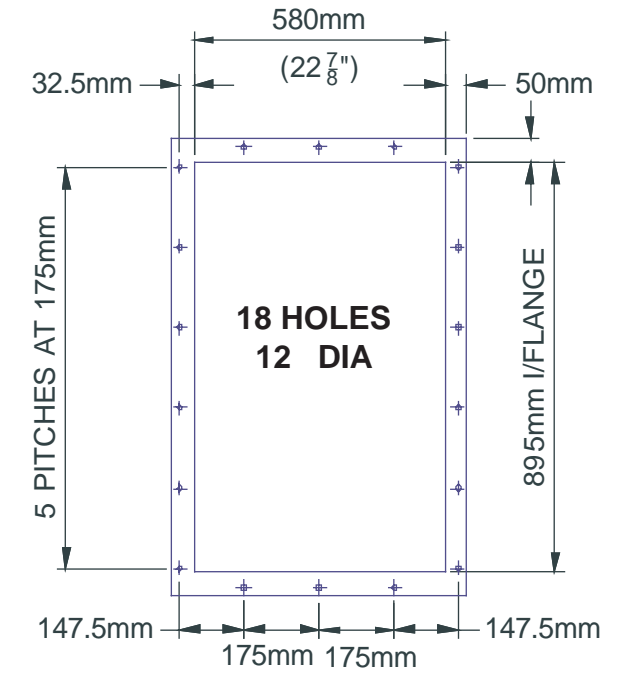
Fan (SiloSafe 24-fan): high efficiency backward curved radial fan with 2.2kW, 3 phase induction motor.

Electrical Supply: SiloSafe 24: -110 or 220v Single Phase 50 or 60 Hz.
 SiloSafe 24-fan: - add 380/415v 3-phase supply for 2.2kW fan.

Unit weight: SiloSafe 24 125kg. approximately.
 SiloSafe 24-fan 160kg. approximately



FILTER MAINTAINING FLANGE DETAILS



FILTER MAINTAINING FLANGE DETAILS

