

Donaldson®  
Torit®



**AIRPLUS**  
Industrial

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## **POWERCORE® SILO VENTING COLLECTORS**

**SVU SERIES**



# SMALLER. SMARTER SILO VENTING FILTERS

**THE COMPACT SVU SERIES BRINGS THE PERFORMANCE AND CONVENIENCE OF THE POWERCORE® TECHNOLOGY TO THE SILO VENTING MARKET.**

Built to withstand severe weather conditions, the SVU series is specially designed for use on pneumatically filled storage silos with airflows up to 1175 cfm (2000 m³/hr).

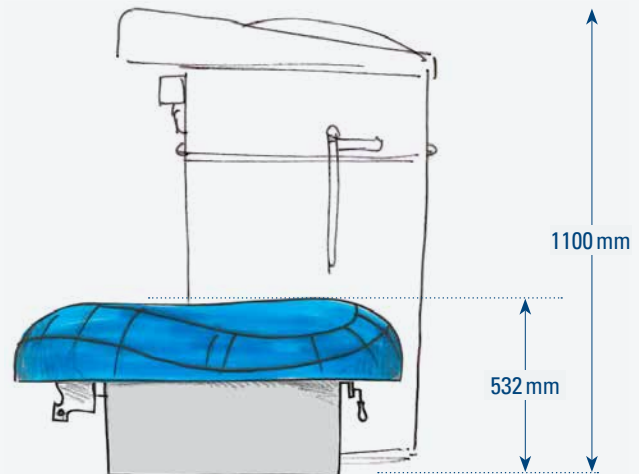
The PowerCore SVU Series will satisfy the need not only for efficiency and reduced maintenance, but also for convenience and workers' safety. You can't always avoid having your maintenance workers climbing and working on high height silos, but you can control how convenient and safe it is. The SVU's compact and low design provides easy and safe access to the filter packs.

With the Silo Venting Unit, you can save space, reduce maintenance requirements and hazards generated by changing long and dirty filter bags or cartridges on a silo top. Thanks to the PowerCore technology, while up to 6 filter bags have to be moved up and down on conventional silo venting solutions, the SVU only needs 2 compact and lightweight filter packs; Changing the PowerCore filter packs can be done easily and safely by just one person with no tools or losable part, in no time.

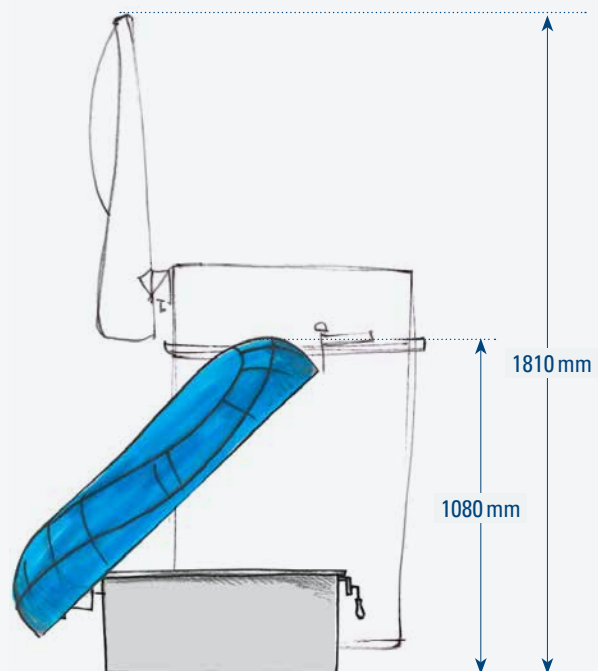
Time-consuming and often very dirty maintenance processes, frequently under precarious working conditions, are a thing of the past when using the PowerCore SVU Series.

UP TO **54%** SHORTER  
THAN TRADITIONAL  
SILO VENTING COLLECTORS

Difference between Donaldson® PowerCore® SVU Series and a traditional silo venting collector using filter bags or cartridges.



Unlike traditional silo venting solutions, the PowerCore SVU cover remain safely accessible.



# CHANGING EXPECTATIONS

The performance, reliability, and ergonomics of the SVU is derived from a combination of advanced filtration technology, unique form factors and high performance reverse jet cleaning to ensure effective dust release and a continuous level of operation for longer. Fewer filters, better cleaning, and shorter maintenance leads to major cost savings over the life of the collector.



## DESIGNED WITH SAFETY IN MIND

- Compact, low height design for easy and safe filter access and maintenance
- Up to 54% shorter than conventional venting units (532 mm)
- Safe cover operations due to its low height



## ROBUST AND WEATHER PROOF

- Robust Stainless Steel Body
- Controller, diaphragm valves, and pressure switch are safely protected under the weather hood
- Integrated mounting Flange



## EASY INSTALLATION

- Fully assembled
- Removable lifting hooks
- Pre set controller
- Mounting Flange DN800mm



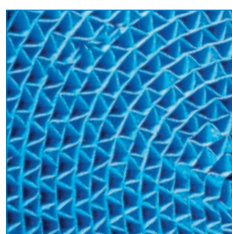
## EFFECTIVE FILTER CLEANING

- Reverse pulse jet cleaning
- Effective dust dislodging
- No filters bridging risks



## FAST & CONVENIENT MAINTENANCE

- Low profile for easy access
- Top-removal filters packs
- No tools required
- Hood fitted with twin gas struts for easy open and close



## POWERCORE® WITH ULTRA-WEB® TECHNOLOGY

- High efficiency (78% fewer emissions)
- Long filter life
- Enhanced filtration performance 2 PowerCore® CP packs replace up to 6 traditional bags



\*Independent lab results obtained using ASTM D6830-02 per EPA PM 2.5 performance verification. Compared to Standard Polyester Bags. Annual emissions calculated assuming 26.461 m<sup>3</sup>/h (14,400 cfm) airflow rate, 265 working days per year, and two shifts per day. Field measurements may vary due to differences in dust contaminant and sensitivity of measurement equipment.

## POWERED BY POWERCORE®

At the core of the SVU unique design is PowerCore the most innovative filtration technology from Donaldson is integral to the dramatic downsizing of the PowerCore SVU series.

An entirely new approach to dust collectors, the PowerCore filter pack is small, lightweight, and easily handled by one person.

Donaldson's PowerCore technology combined to our well-proven Ultra-Web advanced fine fiber technology allows more effective filter area to be packaged in a smaller space:

Pneumatic Silo Venting applications typically requiring up to 6 filter bags (24 m<sup>2</sup>) in the past now only needs 2 PowerCore compact filter packs. With more media packed into a smaller space and a simplified airflow path, PowerCore filter packs provide high performance with a low pressure drop.

### POWERCORE® SVU SERIES

- High performance in a smaller package
- Extended maintenance intervals
- Fast, safe & easy maintenance
- Lower shipping, installation and maintenance costs
- Technology proven in field applications for more than 10 years



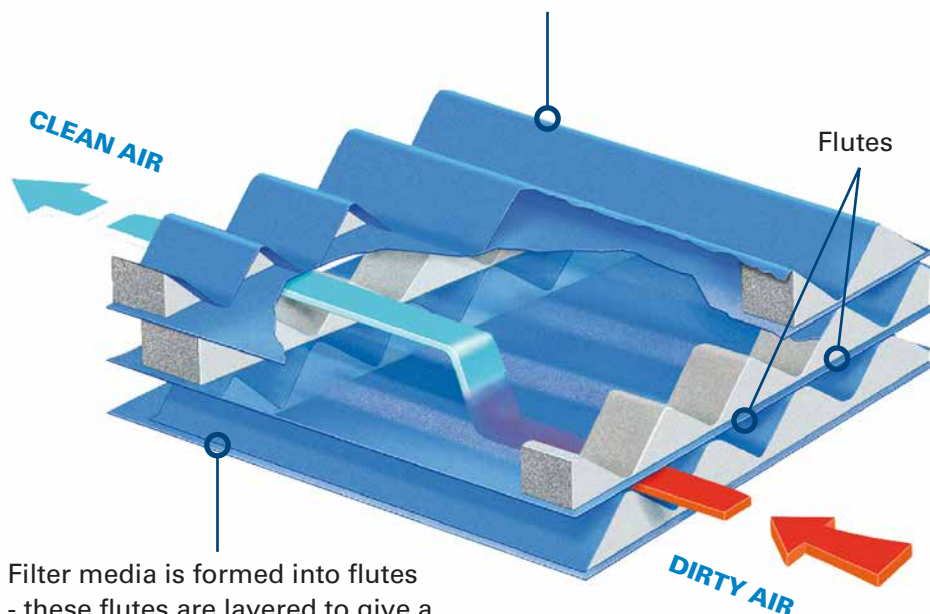
**2** POWERCORE  
FILTER PACKS  
*replaces  
up to* **6**  
FILTER BAGS





# ADVANCED FILTRATION TECHNOLOGY

Fluted channels are alternately sealed allowing air to enter through an open flute and forcing it to exit out an adjacent flute



Filter media is formed into flutes  
- these flutes are layered to give a  
tight, rugged structure to the filter



# SPECIFICATIONS

## CASING

|                             |  |
|-----------------------------|--|
| Max. height above silo      | When closed: 532 mm<br>When open: 1,080 mm |
| Plan                        | 1,150 mm x 935 mm                          |
| Mounting Flange             | DN 800 mm                                  |
| Weight                      | 65 kg                                      |
| Design Pressure             | ± 5,000Pa                                  |
| Colour                      | Cover: Blue<br>Body: Stainless Steel       |
| Outdoor, weather protection | UV protection                              |
| Dirty side contact parts    | Stainless steel                            |
| Construction                | Welded<br>and bolted assembly              |



## PERFORMANCE

|                           |                       |
|---------------------------|-----------------------|
| Nominal airflow           | 177 cfm / 2,000 m³/hr |
| Emission level            | <5 mg / m³            |
| Noise Level               | <80 dB(A) (ISO 3744)  |
| Temperature specification | -10° to + 60°C        |

## CLEANING SYSTEM

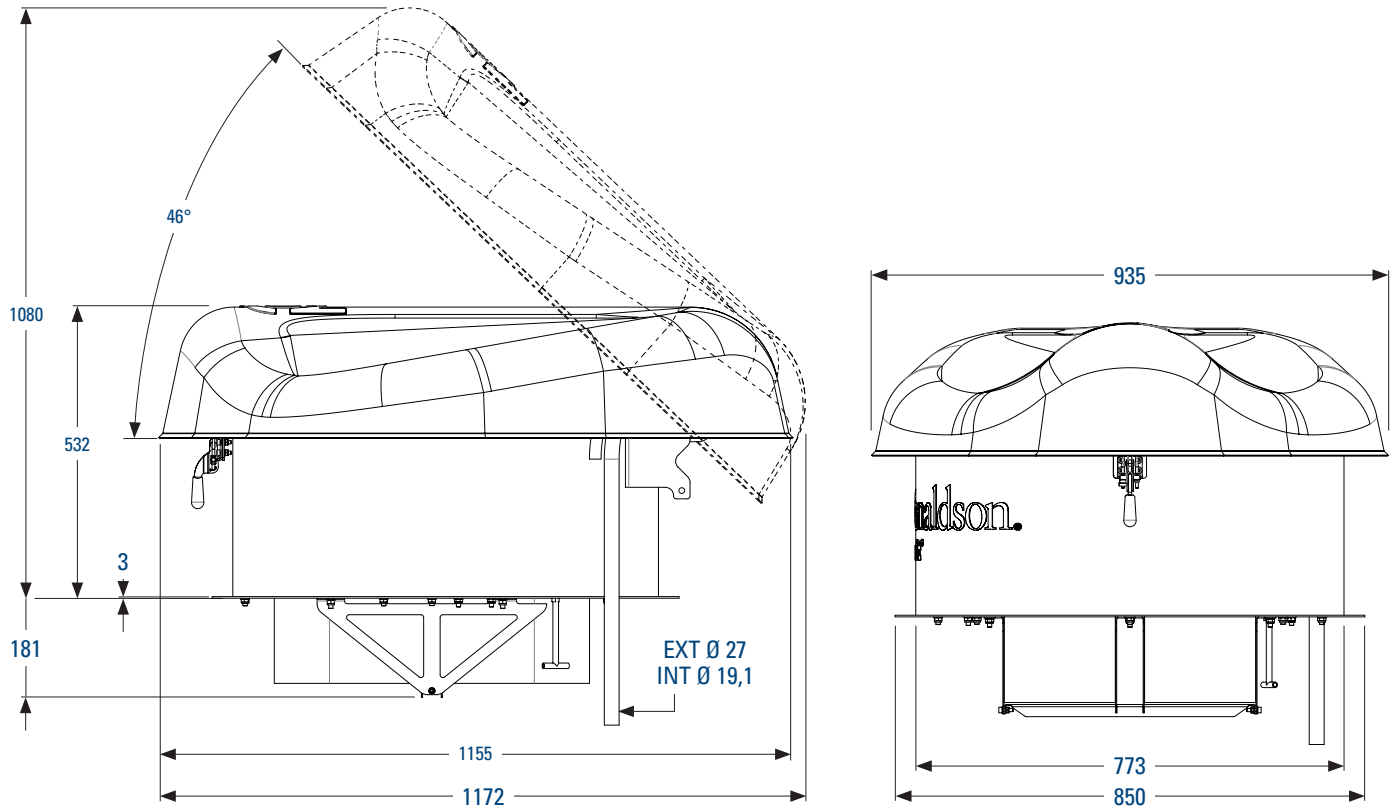
|                            |                      |
|----------------------------|----------------------|
| Type                       | Reverse pulse jet    |
| Compressed air pressure    | 6 bar (max)          |
| Compressed air consumption | 22 NI per pulse      |
| Compressed air quality     | Class 3 (ISO 8573-1) |
| Integrated controller      | STR2 – Cycle timer   |
| Input voltage              | 230/115VAC           |

## FILTERS ELEMENTS

|                        |                          |
|------------------------|--------------------------|
| Filters elements       | PowerCore® CP            |
| Number of elements     | 2                        |
| Filter pack dimensions | L 569 x W 193 x H 178 mm |



# DIMENSIONS



| PRODUCT                    | DESCRIPTION   | PART NUMBER        |
|----------------------------|---|--------------------|
| Silo Venting Unit          | Silo Venting Unit (SVU) + 2 PowerCore® CP UWSB filter packs | FAAM04945          |
| PowerCore® CP filter packs | Ultra-Web Spunbond (UWSB)<br>Ultra-Web Antistatic (UWAS)    | 2626460<br>P032643 |



## Industry-Leading Technology

- Advanced filtration technology for optimal performance
- Reduced energy consumption and cost of ownership
- Advanced design and testing capabilities

## The Most Filters and Parts

- For every brand and style of collector
- Wide range of filtration media for any application
- 90,000 filters and parts in stock and ready to ship

## Unparalleled Support

- Live technical specialists
- Comprehensive pre- and post-sale support
- 40 manufacturing plants and 14 distribution centers worldwide

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and parts. **Call Donaldson Torit at 800-365-1331.**

### Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.



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