

RESPA[®]-CF2 **VORTEX Hyper FLOW[®]**

POWERED PRECLEANER/FILTER/PRESSURIZER



Our most advanced Cab Air Quality System in one compact, customizable unit!



The RESPA[®]-CF2 offers two sizes to maximize your precleaning ability.

FEATURING:

- Unique ruggedized design
- Flexible design to accommodate installation and application needs:
 - Brushed and brushless motors
 - Adjustable outlet and ejection port direction
 - 3-inch and 4-inch outlets
- Corrosion-resistant fan blade
- Filtration option for any application
- Radial seal design eliminates the possibility of seal leakage
- Integrated pressure tap

Standard & Extended Length Filter Housings

BENEFITS:

BEST PRACTICE COMPONENT:

Most effective component for achieving long life, high efficiency filtration at a submicron level.

INCREASES UPTIME and REDUCE COSTS:

Extends HVAC system maintenance intervals with dramatic filter life extension.

SUSTAINS CAB PRESSURIZATION:

Powered precleaning and positive pressure to the HVAC plenum allows cabs/enclosures to sustain positive pressurization with clean, fresh air.

MEETS REGULATORY REQUIREMENTS:

Baseline MERV16 filtration with radial seals greatly reduce exposure to all forms of respirable particulate including respirable crystalline silica (RCS), diesel particulate matter (DPM), and asbestos. Recommended solution for meeting Permissible Exposure Limits (PEL), including **OSHA Silica Rule** and EN474.

PRESERVES OPERATOR COMFORT:

Cab stays cleaner and keeps operators happier, healthier, and more comfortable.

Keep Money in Your Pockets and Operators in Your Cabs!



ISO QMS 9001
EMS 14001

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RadialSHIELD® Filtration Options

- RESPA-CF2 filter options cover:
 - Particulate Filters:
 - MERV 16 *
 - H13*/35H* HEPA
 - Odor/Particulate Combination filters:
 - Carbon with H13 HEPA filtration
 - Gas/Particulate Combination Filters
 - ABEK H13* HEPA combination gas/particulate filter (Extended Length Only)
 - VOC Gases – Ag Sprayer gases
 - Acidic Gases – SO₂
 - Ammonia
 - Visit www.sy-klone.com for the list of gases
- For additional filter life, upgrade to Extended Length option.



Filtration Standards and Ratings *

MERV 16: Rated as MERV16 under the ASHRAE 52.2 test standard. Rated as F9 under the EN779-2002 test standard.

HEPA/H13: Rated as H13 under the EN1822-2 manufacturing standard. Rated as 35H under the ISO-29463-1 manufacturing standard

Gas/HEPA: Rated as ABEK1 under EN14387, HEPA particulate filtration H13 under EN1822-2 or 35H under ISO-29463-1 manufacturing standard.

Odor/HEPA: Rated as Odor Filter under the ISO 011155-2 (2002). HEPA particulate filtration rated P3; H13 under EN1822 or 35H under ISO-29463-1 manufacturing standard.

Specifications:

Mounting: Horizontal, Vertical (Rain cap end up)

Precleaning Efficiency:

≥90% @ 5 µm in normal operating range.

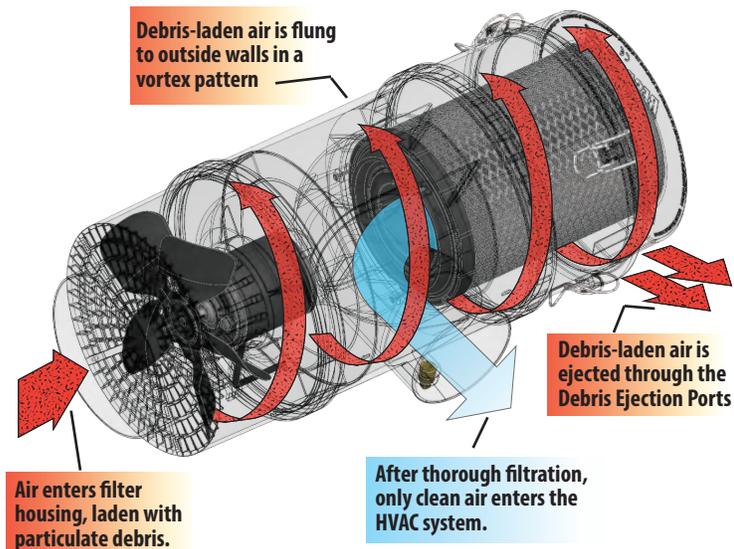
Operating Parameters:

- **Ideal operation range:** 0-130 CFM (0-3.68119 m³/m)
- **Extended operation range:** up to 250 CFM (7.07921 m³/m)
- **Operation temperature:** -40° C to +85° C (-104° to 185° F) continuous; +100° C (215° F) short exposure. 288W initial start-up, 144W constant

Dimensions:

- Standard Length With Rain Cap installed, approximately 23.7" x 10" x 11.3" (728 x 254 x 286 mm); weighs 12.0 lbs. (4.45 kg) with rain cap
- Extended Length with Rain Cap installed, approximately 28.7" x 10" x 11.3" (601 x 254 x 286 mm); weighs 14.2 lbs. (4.45 kg) with rain cap

Construction: Glass-filled injection molded polypropylene exterior; metal fan blade; available 12V or 24V DC motor with sealed housing and sealed ball bearings



Applications:

- **Off Highway Equipment:** Agricultural, Mining, Construction, Waste/Recycling, Demolition, Aggregates, Forestry, Fire Fighting, Radioactive Cleanup, Military
- **Stationary Operator Platforms:** Portable Field Offices, Control Rooms, Stationary Equipment, Command Posts, Crusher Cabins, Clean Rooms, Crew Quarters
- **Power Generation and Distribution:** Ventilated Electric Boxes and Cabinets, Computer Server Cabinets, Cell Tower Control rooms, Dyno Rooms

**CLEAN
AIR**



**FOR
WORKERS**

Reduce machine operator exposure to harmful respirable dust, toxins, odors, and gases

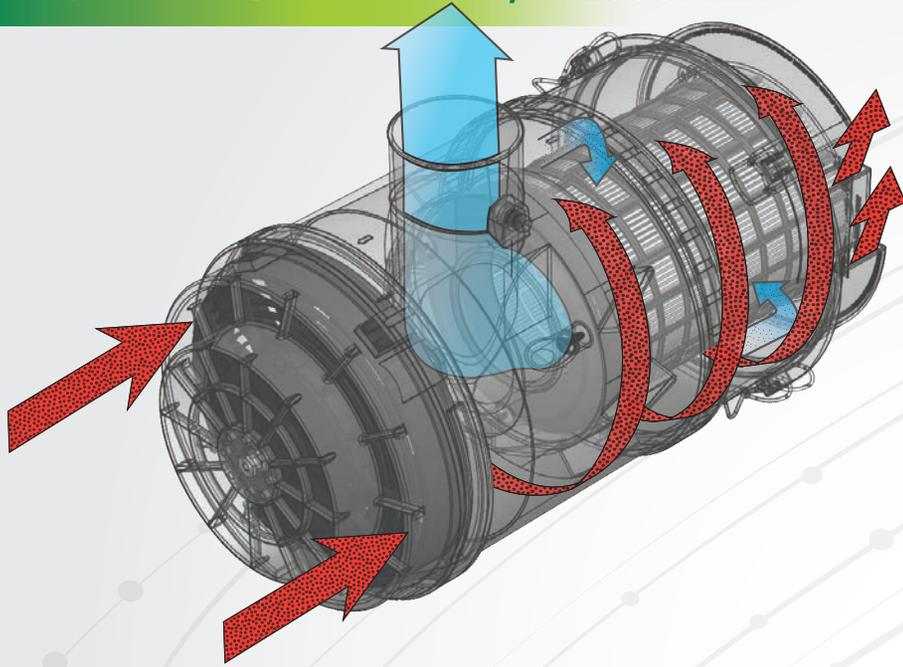
Protect Operators and Improve Air Quality

- Patented, powered technology integrates precleaner, pressurizer, and high-efficiency filtration into a single, compact system
- Meet exposure reduction goals and health and safety initiatives, reduce exposure to harmful respirable particulate, odors, toxins, and gases with interchangeable filter offerings
- High-efficiency filtration arrests microscopic particles extending HVAC system maintenance intervals and filter life, reducing downtime and increasing productivity
- Achieve ISO 23875 Cab Air Quality Standard compliance

Protect Heavy Mobile Equipment Operators in High-debris Work Environments, including:

- Mining
- Demolition
- Construction
- Quarries / aggregate
- Concrete processing
- Waste and recycling, landfills, and transfer stations
- Agricultural and harvesting
- Forestry and timber
- Other high-debris job sites

RESPA[®] CF2 POWERED PRECLEANER FILTER / PRESSURIZER



How it Works: The “Sy-Klone Effect”

1. Dirty air enters the precleaner housing through the inlet end.
2. The debris-laden air is directed into a rotation – a “Sy-Klone” – pushing the debris to the outside walls through centrifugal force. The debris rotates towards the outlet end.
3. Debris is ejected through the ejection port, and the fine dust that remains passes through Sy-Klone’s self-cleaning filter.
4. After passing through the high-efficiency filter, clean air is passed downstream to the HVAC system through the outlet end.

The separation and ejection of debris, and high-efficiency filtering, all of which precleans air, is The Sy-Klone Effect.

Product Specifications

Airflow range: Ideal operation range: 0 CFM to 130 CFM (0 m³/min to 3.68 m³/min)
Extended operation range: up to 250 CFM (7.08 m³/min)

Motor/Voltage: Compact Brushed Motor and Brushless Motor options, both in 12V or 24V

Mounting: Horizontal or Vertical with rain cap end up (Mounting plates available separately)

Standard-length, compact motor, 3-inch outlet product dimensions and weight: HxWxL; Weight
With rain cap: 18.9" x 10" x 11.3" (479 x 254 x 286 mm); 10.5 lbs. (4.8kg)

Extended-length, compact motor, 3-inch outlet product dimensions and weight: HxWxL; Weight
With rain cap: 23.9" x 10" x 11.3" (606 x 254 x 286 mm); 14.2 lbs. (6.4 kg)

INTERCHANGEABLE FILTER OPTIONS TO SUIT YOUR JOB SITE



PARTICULATE:

- HEPA • EPA • MERV 16

GAS + PARTICULATE:

- ODOR • ABEK GAS • AMMONIA

