

RESPA[®]-CF2

The RESPA[®]-CF2 is the most advanced Cab Air Quality System available, delivering a powered precleaner, filter, and pressurizer in one compact, customizable unit.



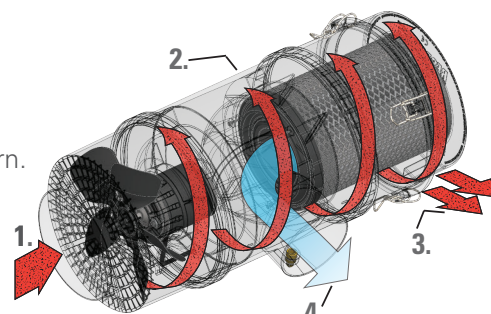
This cab filtration innovation from Sy-Klone International offers the highest quality of filtration and pressurization at the lowest cost. The cost-effective system extends the HVAC system maintenance intervals while dramatically extending filter life—which saves on filter and labor costs to the user. The powered precleaning technology allows cabs/enclosures to sustain positive pressurization while keeping particulate out. It is the most effective system available today.

Benefits:

- Helps meet regulatory compliance, such as the OSHA Silica Rule and Beryllium Rule
- Extends the HVAC system maintenance intervals
- Dramatically extends filter life up to 20x
- Prefilters air, which protects operator from hazardous chemicals and debris
- Allows cabs/enclosures to sustain positive pressurization while keeping particulate out
- All-weather, durable, compact, and customizable unit

How It Works:

1. Air enters filter housing, laden with particulate debris.
2. Debris-laden air is flung to outside walls in a vortex pattern.
3. Debris-laden air is ejected through the debris ejection ports.
4. After thorough filtration, only clean air enters the air intake housing.



The Real World is our Laboratory.

Clean Air is our Mission.[™]

Sy-Klone International holds over 60 patents worldwide in air precleaning, particle separation, and air quality monitoring.

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TECHNOLOGIES

RESPA®-CF2 Precleaner/Filtration/Pressurizer

Product Name	Motor	Length	Outlet	Inlet	Filter
CF2 RESPA®-CF2	12L 12V Brushless 24L 24V Brushless 12C 12V Compact Brushed 24C 24V Compact Brushed	X Extended S Standard	3 3" 4 4"	RC Rain Cap Only DS Debris Screen ¹	MV MERV 16 HE HEPA HG HEPA/Gas HO HEPA/Odor

Build your RESPA®-CF2 by using the letters in bold to build your system. For example: **CF2-12CX4DS-HG** would be a **CF2** with a 12-volt Compact Brush motor in an eXtended length, with a 4" outlet, a Debris Screen, and a HEPA/Gas Filter.

¹The Debris Screen version also includes the Rain Cap.

Brushed versus Brushless Motors



Brushed Compact Motor Specifications

- 12V Amperage: Startup: 16A; Running: 6.5A
- 24V Amperage: Startup: 8A; Running: 3A
- Operating Temperatures: -20 °C to 80 °C
- Motor Life*: 12,000 hours to 15,000 hours
- Warranty: 2 Years

The brushed motor does not come with enhanced EMI protection¹. The RESPA-CF2 with a compact motor is warranted for two (2) years from date of purchase.

**Expected motor life based on standard operating conditions.*

¹Conforms with EN13309:2010.



Brushless Motor Specifications

- 12V Amperage: Startup: 20A; Running: 12A
- 24V Amperage: Startup: 14A; Running: 6A
- Operating Temperatures: -40 °C to 80 °C
- Motor Life*: 18,000 hours to 20,000 hours
- Warranty: 3 Years

The brushless motors include over/under-voltage, overheating protection. The RESPA-CF2 with a brushless motor is warranted for three (3) years from date of purchase.

RadialSHIELD® Filtration Options:

• Particulate Filters:

- MERV 16/F9 (Media rated at MERV 16; Rated F9 under EN779)
- HEPA/H13 (Rated H13 under EN1822-1; Rated 35H under ISO 29463-1)

• Odor/Particulate Combination Filter:

- Odor + HEPA/H13 (Qualified as Odor Retention under ISO 11155-2; Rated H13 under EN1822-1; Rated 35H under ISO 29463-1)

• Gas/Particulate Combination Filters:

- Gas ABEK1 + HEPA/H13 (Rated ABEK1 under EN12941:1998 + A1:2004 + A2:2008; Rated H13 under EN1822-1; Rated 35H under ISO 29463-1)
- ISO29463 35H)/ABEK combination gas/particulate filter



For additional filter life, upgrade to the extended length option. Visit <https://www.sy-klone.com/filters.html> for more information on RadialSHIELD® filtration and complete lists of gases.

CF-2 Specs at a Glance:

- Operating 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)
- Operation Temperature: Brushless: -40 °C to + 80 °C continuous; +100 °C short exposure; Compact: -20 °C to + 80 °C continuous; +100 °C short exposure
- Construction: Glass-filled injection molded polypropylene exterior

Mounting Options:

Mounting: Horizontal, Vertical (Rain cap end up)

Precleaner Maintenance:

No routine maintenance required. Patented self-cleaning filter drops dirt continuously, which is then ejected from the filter housing.

Debris Types:

Expels all types of mixed debris, including mud, snow, rain, leaves, sawdust, chaff, and dust.

Precleaning Efficiency:

Ejects particulate at ≥90% first-pass efficiency.