CLEAN AIR SOLUTIONS

FOR CABINS, ENCLOSURES & ENGINES

CF2020

A RESPA Cab Air Quality System Component
ENGINEERED BY **SY-KLONE**
If cab is sealed and light remains on,
replace fresh air filter.
Silence Alarm
Pressure Monitor System CE

3 Steps to a Complete Air Quality System

1. FRESH AIR PRE-CLEANER/FILTER/PRESSURIZER

RESPA® CF2

With Vortex HyperFLOW®
12 & 24 VDC

1.

Powered Pre-cleaner removes 90+% of dust and ejects it out of the housing BEFORE it reaches the Hi-Efficiency filter. Clean Air is then delivered to the cab in a positive airflow which pressurizes the cab keeping dust OUT.

Available in Standard and Extended Service lengths with MERV 16/F9 self-cleaning media
or HEPA/H13 0.3 micron 99.95% Filtration.

Additional CF filter Options
Odor/HEPA for Standard and Extended Length
Gas ABEK1 P3/HEOA for extended length

2. HIGH-EFFICIENCY RECIRCULATION FILTRATION

RESPA® CFX2

2.

High-efficiency recirculation filtration continuously removes dust from cab, minimizing settled dust accumulation. Clean, filtered air flows back to HVAC plenum. Ensures cab is maintained as free as practical from settled dust.

Available in Standard and Extended lengths with MERV 16/F9 or HEPA/H13 Filtration.

Fresh Air & Debris
Cleaned & Filtered Air
Machine's HVAC System
Debris is ejected

1

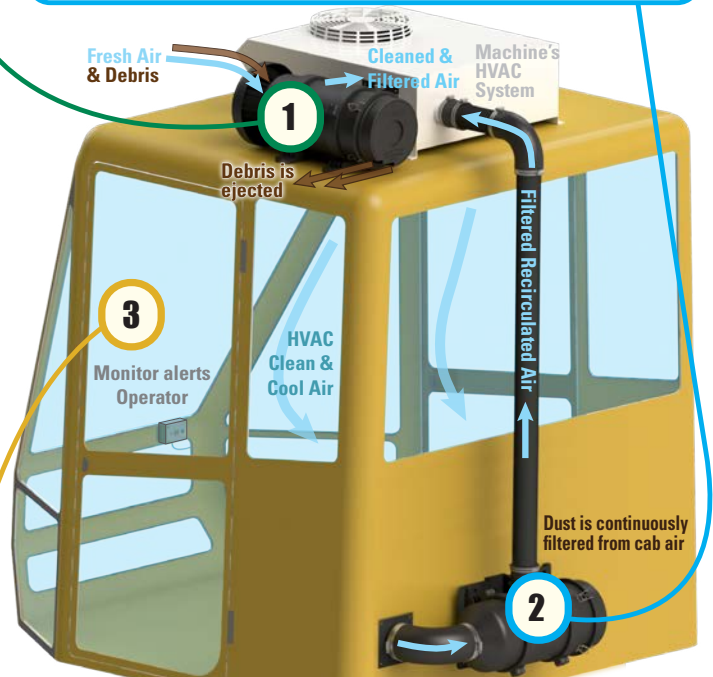## 3. PRESSURE MONITOR ALERTS OPERATOR

Sy-Klone® Pressure Monitor
Meets or exceeds pressure monitoring device compliance for Canadian OSHA

- Low Pressure Alarm
- Digital or Numeric Display
- Readings in Pascal or Inches of H_2O
- Settable Parameters

3

Monitor alerts Operator

HVAC Clean & Cool Air

Filtered Recirculated Air

Dust is continuously filtered from cab air

2

3.

It is important to maintain positive pressure inside an operator's cab. Cab pressurization helps prevent dust and harmful particulate from entering a sealed cab. The Sy-Klone® Cab Pressure Monitor System is easy to operate and provides a continuous pressure reading on a digital display, which will alert the operator whenever the enclosed cab's air pressure drops below the pre-set pressure. This Pressure Monitor System is recommended for use with Sy-Klone®'s family of RESPA® Cab Air Quality Systems.

Regulatory Compliance with RESPA Cab Air Quality System

The operator enclosure, where your operator spends the most time, is the easiest and most cost-effective environment to control and has the MOST IMPACT on reducing operator exposure levels to below Permissible Exposure Limits.

Keep Money in Your Pockets & Operators in Your Cabs

OPERATOR COMFORT
Cab stays cleaner, more comfortable, keeping operators happier, healthier, and more productive.

MAINTAIN CABIN PRESSURIZATION
Powered pre-cleaning allows cabs/enclosures to sustain positive pressurization, keeping particulate out.

INCREASE UPTIME & REDUCE COSTS
Affordable: This cost-effective system extends HVAC system maintenance intervals. Dramatic filter life extension saves on filter and labor costs.

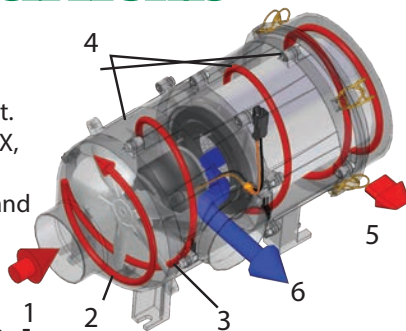## MEET REGULATORY REQUIREMENTS UNDER ALARA
(As Low As Reasonably Achievable)
RESPA®-CF can be a cost effective solution to help meet Permissible Exposure Limits (PEL) and protect operators. The RESPA®-CF reduces exposure to all forms of respirable particulate including **respirable crystalline silica (RCS)**, diesel particulate matter (DPM), and asbestos.

Protecting Operators In:

ALL ENCLOSED OPERATOR CABS IN ALL ENVIRONMENTS
Heavy equipment cabs • Stationary equipment cabs
Cranes • Drills • Pipe laying machines
FRAC Sand Plants • Forestry • City street sweepers

ENVIRONMENTALLY CONTROLLED SPACES:
Electronic control rooms • Portable field offices
Military portable command posts • Crusher cabins
Cell tower control rooms

POWER GENERATION AND DISTRIBUTION
Ventilated electric boxes • Electronic cabinets
Computer server cabinets

OTHER APPLICATIONS
Ag sprayer cabs/Chemical spray equipment
Waste treatment facilities • Landfills
Aggregate crusher cabs • Demolition
Railway track maintenance equipment

OUR PRODUCTS CAN BE USED IN ANY ENVIRONMENT

How the Vortex Works

Creating the Vortex
1. Particulate-laden air enters the pre-cleaner inlet.
2. The fan creates a VORTEX, a tornado-like spinning motion, whipping the air and particulate to the outside wall as it approaches the fan blades.

Creating the Hyper Spin
3. Spinning air HYPER-accelerates as it passes through louvers, further enhancing centrifugal forces powerful enough to eject particle separation down to 5 μ.

Creating the Continuous Flow
4. Particulate is spun against the outside wall of the device and propelled rapidly around the filter to the rear of the device in one continuous FLOW of air.
5. Particulate is ejected back into the environment through two ejection ports located at the rear of the device.
6. Pre-Cleaned air now passes through the Hi-Efficiency Filter. Clean air is now delivered to the operator's cab.

XLR: Xtra Low Restriction Engine Also Need Protection

Sy-Klone® XLR Powered Pre-cleaner®
Eject the debris before it enters the air intake! Keep air filters cleaner and longer in extreme environments.

www.sy-klone.ca
1-800-309-8155

Regulatory Compliance with RESPA Cab Air Quality System

Scientifically proven and field tested, RESPA technology has been the subject of more research studies on cab air quality and is the most recommended system in the world today.

1. FRESH AIR

RESPA® CF2
Powered Pre-cleaner
High-Efficiency Filtration
Pressurizer

+

2. MONITOR

PRESSURE MONITOR
Alerts operator to loss of pressure and Indicates when filter change is needed

+

3. RECIRCULATED AIR

RESPA® CFX2
Powered
High-Efficiency Filtration

FILTERS TO MEET EVERY NEED

High-Efficiency MERV 16/F9

- Our most cost effective filter
- Constructed from self-cleaning Nano technology high-efficiency filter media
- Provides 1000 hours of filter life in most applications
- Meets OSHA Silica Rule requirement for MERV 16 or higher filtration

HEPA

- When high-efficiency 0.3 micron H-13 filtration is an absolute requirement
- Gives long service intervals when incorporated into the RESPA system
- The most cost effective HEPA solution in the market today

Odor/HEPA

- Combines odor filtration with HEPA H-13 particulate filtration
- Defined as Odor Filter under ISO 11155-2 (2002)

Gas/HEPA

- Combines gas filtration ABEK1 P3 with HEPA H-13 particulate filtration
- For use in known toxic gas environments