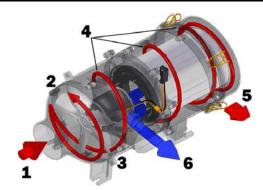
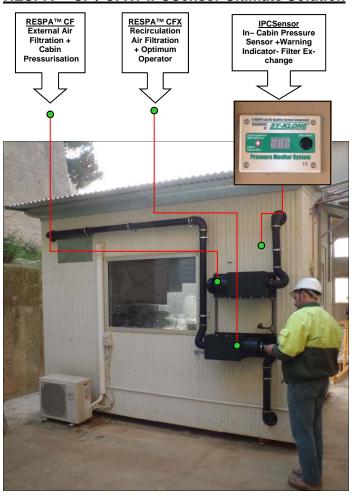


S | N | RESPA™ PFP "Quality Cabin Air " TECHNOLOGY The Solution for Fixed / Mobile Plant Cabin Precleaner + Filtration + Pressurisers

RESPA™ CF+CFX+ICPS- How it Works



RESPA™ CF / CFX+ IPCSensor Ultimate Solution



SPECIFICATIONS	
Model No	RESPA™PFP 12V DC / PFP 24V DC
Unit Type	Precleaner+Filter+Pressuriser
Power Supply	12 VDC / 24 VDC
Current Draw (amps)	24-12 (12VDC) / 12-6 (24VDC)
Weight (nominal)	4.5 Kg
Pressurised Fresh Air	30-40 l/s (HEPA H13) / 50- 60 l/s (MERV16+ P2)
Dimension LxWxH (mm)	Approx 485 x 256 x 261
* Design Temperature –40 to +80 degC	

RESPA™- How It Works

RESPA™ CF (External Air) PFP Unit:

Creating the VORTEX

- Particulate-laden air enters the Precleaner inlet.
- 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 Precleaner

- Spinning air HYPER-accelerates as it passes through louvers, further enhancing centrifugal forces powerful enough to affect particle separation down to 5μ .
- The RESPA®-CF Vortex HyperFLOW™ External Air PFP provides for optimum (96- 98%) Precleaning of the External Air and maintains correct Pressurisation of the Cabin.

Creating the continuous FLOW

- 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
- Particulate is ejected back into the environment through two ejection ports located at the rear of the device. Precleaner air passes through the filter. Filtered air continues to the outlet.

RESPA™ CFX (Recirculation Air) PFP:

- The RESPA®-CFX Inline Recirculated Air Unit works in a similar way to the RESPA® CF External Air Unit except that there are no Ejection Ports.
- Provides Filtration of debris laden air that gets entrapped and agitated (Operator / Machine Vibration, etc) in the Cabin from Opening / Closing Doors, Operator clothing, Boots, etc.
- Fresh / clean Filtered air continues into the Evaporator coil box for optimising heating / cooling.

In- Cabin Pressure Sensor / Warning.

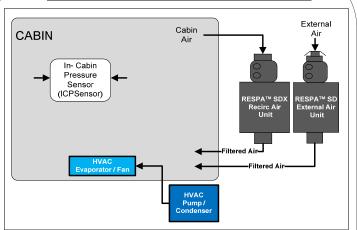
The In- Cabin Pressure Sensor / Warning Monitor (ICSPM) provides for monitoring the internal Cabin pressure.

- The External Air RESPA PFP provides Fresh Air as well as the positive pressure inside the Cabin. As the Filter Element becomes loaded with Particulate then Air flow / Pressure will begin to diminish inside the Cabin.
- The ICPS Monitor provides the Operator with an indication that Cabin Pressure has diminished to a unsafe level that could be a result of Seals needing maintenance- but in most cases it signifies that the External Air Filter Element is loaded (restrictive airflow) and so needs replace-
- Should the set-point pressure diminish to unsafe levels then ingress of particulate can occur.
- In addition, as pressure diminishes, so does the Fresh Air Flow and rapid Co2 concentration.



RESPA™ PFP "Quality Cabin Air " TECHNOLOGY The Solution for Fixed / Mobile Plant Cabin Precleaner + Filtration + Pressurisers

HVAC- RESPA™ PFP Design Concept



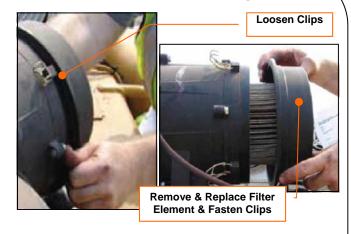
RESPA™ Filter Element Technology

The RESPA™ Technology provides Filter Elements provide the highest protection / arrestance efficiency and longest Service Life of upto 1,000 hours.

HEPA> H13 (EN1822) Grade.

- Media conforms to arrestance of >0.3 micron Particulate / Fibre @ 99.995 % Efficiency (DOP Certified).
- Effective against: This Filter media has the highest protection factor and should be utilised were exposure is to combustion smoke; diesel particulate matter (DPM); respirable crystalline silica (RCS); radon progeny; carbon dust; sea salt; and other respirable particulate within the size range.
- Applications: Nuclear Clean-up, working with friable Asbestos, Carcinogenic Materials.
- P/N RESPA CF Ported (LSM-PFP-FEFF018-SYK).
- P/N RESPA CFX Non-Ported (LSM-PFP-FEFF010-SYK). MERV16+ ASHRAE 52.2: EN779-2012: F9
- Media conforms to arrestance of >0.3-1.0 micron Particulate / Fibre @ 98.0 % Efficiency.
- Effective Against: This Filter media has the highest protection factor and should be utilised to remove Particulate, such as: all bacteria; most tobacco smoke; proplet nucleli (sneeze); respirable crystalline silica (RCS); diesel particulate matter (DPM); and other respirable particulate within the size range.
- Applications: Mining, Agriculture, Demolition, Construction, Waste, Indoor Recycling, all applications where respirable dust is present.
- P/N RESPA CF Ported (LSM-PFP-FEFF008-SYK).
- P/N RESPA CFX Non- Ported (LSM-PFP-FEFF011-SYK).

RESPA™ PFP Filter Change



RESPA™ PFP "Quality Cabin Air " Solution

The ultimate solution to your Mobile & Fixed Plant Cabin HVAC Filtration & all Enclosures (eg. Electrical Cabinets, Crusher Cabins, etc). Key features of this new generation of RESPA™ PFP Technology:

This synergy of the latest RESPA™ PFP technology:

- Protects the Health of the Operator to OEL Legislation Com-
- Extends service life of Filter Elements- upto 1000 hours).
- Dramatically reduces maintenance of the HVAC System.
- Maintains correct pressurisation of the Operators Cabin.
- Off- sets Co2 concentration & avoids Fatigue /Microsleeps.
- Enhances your Productivity up time.

RESPA™ PFP is a combination of a Motorised Powered Precleaner + Filtration & Pressuriser- all integrated into one unit that can be mounted on stationary or mobile equipment & replaces other conventional existing HVAC Air Intake / Pressuriser / Filter units for both External & Recirculation Air.

RESPA™ PFP has been tested & certified to provide the highest Protection Factor for Operator OEL (Occupational Exposure Limits) by:

- Queensland Mines & Energy- Mines Inspectorate- Health Surveillance Unit.
- NIOSH: National Institute of Occupational Health & Safety-

To achieve the maximum / optimum results then it is essential that all HVAC Systems are designed with a complete RES-PA™ PFP configuration, consisting of the following:

- RESPA™ CF for External Air.
- RESPA™ CFX for Recirculation Air.
- IPCSensor In- Cabin Pressure Sensor Warning Device.



16 Bluestone Circuit Seventeen Mile Rocks 4073, QLD, Australia +61 7 37258100 Tel:

+61 7 37258199

Email: tech@lsmtechnologies.com.au Web: www.lsmtechnologies.com.au

Dealer: