

Cabin Air Quality Systems

Throughout Europe, humans are exposed to harmful, respirable particulates in their working environment more than ever. This is of particular concern in recycling, earthmoving, agriculture and other conditions where harmful particles float in the air.



RESPA® Cabin Air Quality Systems

The RESPA® provides clean air to your HVAC-system (heating, ventilation, air conditioning) keeping the cab free of dust and the operator protected from exposure to harmful particles.

Our Cabin Air Quality Systems remove more than 90% of dirt and debris prior to the air filter and meet or exceed the most strict international safety regulations!

Benefits

- Protects operator health and increases comfort and productivity.
- Protects the HVAC-system (heating, ventilation, air conditioning) against dust.
- Low maintenance costs and long filter life thanks to the built-in precleaner.
- Preserves the maximum achievable operator view due to its compact size.
- Suitable for all working environments!

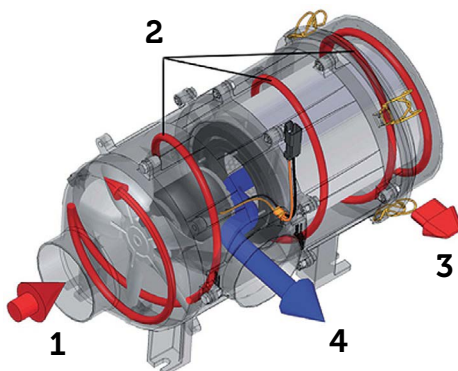
Operation

Step 1: Debris-laden air enters the precleaner.

Step 2: The fan of the built-in precleaner generates an air vortex, causing the contaminants to ride along the outer walls of the housing.

Step 3: More than 90% of the dirt and dust particles are ejected from the precleaner through the ejection ports at the end of the filter.

Step 4: The precleaned air is now filtered to the standards* required for your application, after which the clean filtered air flows into the cab.



*For example EN779 F9 (P2), EN1822 HEPA H13 (P3) or EN12941 (ABEK1)



The precleaner extends filter life!

Self-cleaning Filter

The RESPA® continuously ejects >90% of dust and debris before filtering the air.

The filter and housing are self-cleaning as debris falls off the filter and is then ejected from the housing due to the constant airflow around the air filter. Unlike any previous technology, the entire filter housing remains essentially particulate-free. This increases filter life and reduces exposure to contaminants when changing the filter.

Partly thanks to this technology, the filters of this system last incredibly long!

Pressure Monitor System



To ensure proper operation and monitor filter life, all pressurized cabs should have a pressure monitor. This monitor alerts the operator to both increased exposure to contaminants and conditions that burden the HVAC system.

Our easy to install Electronic Pressure Monitor System gives you real-time information on cab pressure and when to change filters in your Respa® system. The monitor can be connected to remote telemetry systems and is approved by most regulatory agencies.

Installation

Measuring only 49x26x26 cm and with a 360° rotatable air outlet, the RESPA® can be mounted almost everywhere, horizontally or vertically! Applications include all enclosed operator cabs in all environments, Environmentally controlled spaces and more!



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