

Avoid the Dangers of Dust

Introducing RESPA-CF2 kits and MERV 16 filters

Dust and airborne debris may be small, but they can cause big problems on construction, aggregate, mining, and other job sites with extreme dust conditions.

When dust enters the heating, ventilation and air-conditioning system, it clogs the evaporator core, resulting in expensive repairs, unexpected downtime and warranty claims. When operators in the cab breathe in harmful contaminants such as asbestos, diesel particulate matter, coal dust and silica, lower lung diseases such as mesothelioma, silicosis, black lung disease, and COPD may result. Lung cancer deaths are 50% higher among construction workers than the U.S. population, even when adjusted for smoking, according to the Center for Construction Research and Training.

Hitachi is committed to providing dealers and end users with state-of-the-art solutions to address these critical worksite issues. Sy-Klone's RESPA® Cab Air Quality Systems, which protect both the HVAC system and the operator's air quality, are now available via the Hitachi distribution system.

Preventing dust and debris from impacting your business

The RESPA-CF2 combines a precleaner, pressurizer and high-efficiency filter in one compact unit, providing clean, fresh air inside the operator cab. The RESPA precleaning technology ejects over 90% of the largest dust and debris before they reach the filtration stage, leaving only the smallest particles to be addressed by Sy-Klone's self-cleaning, MERV 16 filter, which is more than 95% efficient in removing respirable particles from 0.3 to 1 micron in size. RESPA's patented, self-cleaning filter and filter housing continuously eject dust and debris out of the system, resulting in longer filter

life. Providing clean air to the machine's HVAC system keeps the evaporator core clean, reducing maintenance and repairs.

Improving air quality for your machine operators

RESPA's precleaning and filtration capabilities dramatically reduce operator exposure to harmful microscopic contaminants that are more likely to enter the lower lung and may cause permanent damage. On the job site, the operator enclosure is one of the easiest and most cost-effective environments in which to control air quality. In regulated industries such as mining, exposure levels are averaged over an operator's shift, not just during time in the cab, so providing clean air in the cab can balance exposure elsewhere for acceptable outcomes. RESPA has a demonstrated track record of maintaining conditions under Permissible Exposure Limits on extreme work sites across the world.

Expanding Hitachi's clean air options

For years, Hitachi has partnered with Sy-Klone to provide clean air to engines with the Series 9000 Air Precleaner. We are proud to extend that partnership by adding the RESPA solution to provide clean air to the cab. The RESPA Cab Air Quality System can be installed on any machine with an enclosed cab. RESPA kits with model-specific adaptation parts are now available for select Hitachi wheel loader models.

Sy-Klone is the world leader in precleaning and air filtration for heavy equipment. With over 30 years of experience and more than 100 patents and trademarks, Sy-Klone had developed a suite of solutions to help address the most challenging work environments around the globe. ■



Four Benefits of Clean Air for Your Fleet and Operators

Sy-Klone's RESPA keeps your operators safer and more comfortable, while keeping machines running longer.

- 1. Improved operator health and safety;** reduced risk of lower lung disease caused by harmful respirable dust
- 2. Increased operator comfort;** well-running HVAC systems improve the operator environment and support employee retention and recruitment
- 3. Reduced HVAC maintenance costs;** evaporator core remains clean
- 4. Improved machine uptime and productivity;** machines meet HVAC service intervals; cab electronics remain clean

Contact your local Hitachi Dealer today for more information on the Sy-Klone RESPA System.

