



longday.com

DustRanger™

Advanced Filtration For Clean And Safe Air

DustRanger is a high-performance, modular filtration system engineered to provide clean and safe air in demanding environments.

It removes hazardous pollutants, including fine dust (silica, coal, asbestos, metals), harmful gases (benzene, NH₃, H₂S, diesel particulates), and agricultural contaminants (organic dust, pesticides).

DustRanger ensures purified air inside the **driver cabins** of mining vehicles, agricultural machinery, remediation equipment, emergency response units, and other heavy-duty applications.



BECAUSE CLEAN AIR MATTERS

The importance of clean, purified air cannot be overstated, especially in environments where exposure to harmful pollutants can directly impact health and productivity.

Applications

Driver Cabins: Clean air for operators in vehicles or machinery.

Containerized Applications: Purified air for laboratories, surgery rooms, clean rooms, pump stations, chemical storage, offices, and personal rooms.

Indoor Spaces Requiring Air Purification: Effective filtration for dust, gases, and viruses in any enclosed area.

DustRanger
Series:



Discover More About
Our Products:



Active Precleaner Unit

A powerful blower maintains overpressure, continuously supplying purified air. The Active Precleaner separates dust from intake air and expels it through an ejection valve. This stage removes moisture and dust from intake air before it reaches the filter, significantly extending its service life. It is the smallest system extension, housing two panel filters.

Protective Ventilation Unit

When combined with an additional filter housing, the Protective Ventilation System ensures effective air purification while maintaining controlled overpressure to block external contaminants. It integrates up to four filtration stages for maximum air purity, including honeycomb H14 and activated carbon filtration. This system helps create a clean, safe workspace by reducing exposure to harmful particles and gases, enhancing air quality, and improving worker health and productivity.

Recirculation Unit

The Recirculation Unit provides continuous air purification in enclosed environments like operator cabins or containers. It removes airborne pollutants, including germs, spores, and fungi, which accumulate when doors are opened. While it purifies air within the cabin or workspace, it does not introduce fresh air. Over time, CO₂ levels can rise, affecting the operating environment. To mitigate this, the Active Precleaner or Protective Ventilation System supplies precleaned fresh air, maintaining a healthy atmosphere. This unit can be equipped with the same filter elements as the Protective Ventilation System, ensuring seamless integration and consistent performance. It supports HVAC systems by recirculating purified air, improving overall air quality in the cabin or workspace.

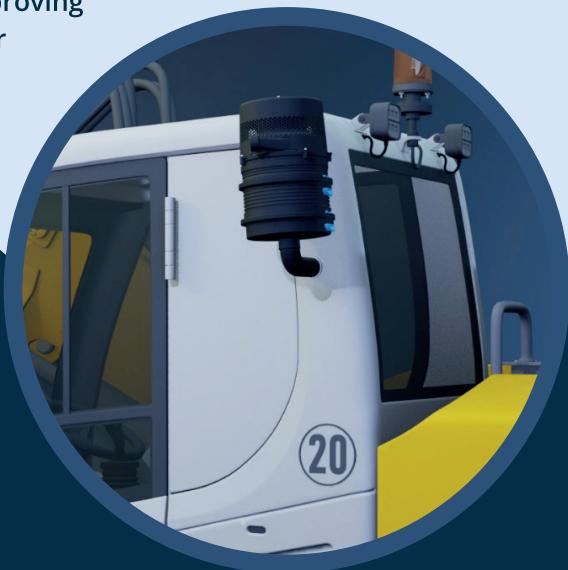
General Properties

Filtration: Unique honeycomb technology with H14 and activated carbon options, offering the highest efficiency through axial airflow and minimal pressure drop.

Blower Options & Airflow: 24V DC or 230V AC, up to 600 m³/h (depending on filter and speed).

Variable Speed: Controlled via PWM signal, with external controller or app.

Filter Monitoring: Optional sensor-based alerts for service needs and filter recognition.



Longday AG

info@longday.com | longday.com
Flughofstrasse 39a | 8152 Glattbrugg
Switzerland | +41 (0)43 501 58-00