

# Engine Air Filtration System

Air filters are essential for the engine and the air that your engine 'breathes' needs to be as clean as possible. A short filter life is an often accepted situation in dusty working conditions. Excessive wear and damage to the engine due to dust contaminated oil is a common occurrence.



## XLR Powered Precleaner®

With the XLR Powered Precleaner® we offer the ultimate solution for maximum filter life in the most impossible working conditions. A typical air precleaner does not perform well in the full engine speed range and is not more efficient than 80% on particles of 5 microns or larger.

The XLR Powered Precleaner® is a filter system that removes 99.99% of ISO 5011 particulate matter, from idle speed to full engine power!

## Benefits

- Optimal performance, from idle speed to full engine power.
- Removes 99.99% of ISO 5011 particulate matter and filters up to 25 times more efficiently than your original, OEM air filter.
- The XLR® filter can last up to 100 times longer than your original OEM filter.
- You will never have to replace your original, OEM air filter due to dust saturation again!
- The engine oil remains clean, preventing excessive wear on the engine.

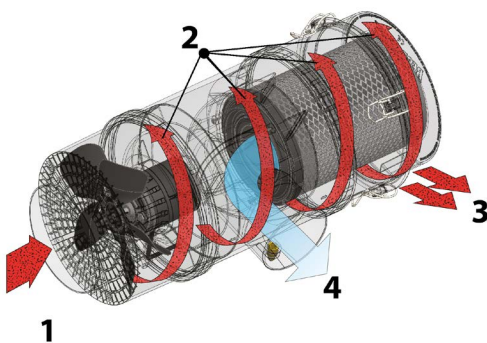
## Operation

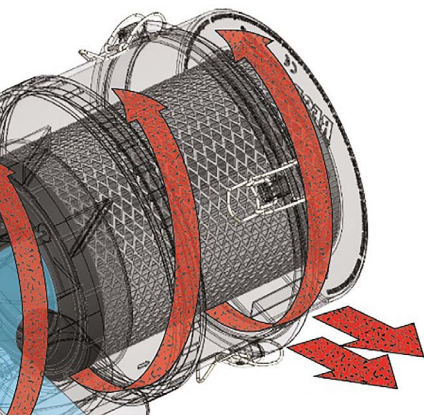
**Step 1:** Debris-laden air enters the precleaner.

**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 pre-cleaned air is now filtered to the ISO 5011 standard after which the clean, filtered air flows to the machine's engine air intake.





The Precleaner extends filter life!

## Self-cleaning filter

The XLR Powered Precleaner® removes more than 90% of dirt and dust particles before the air is filtered.

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.

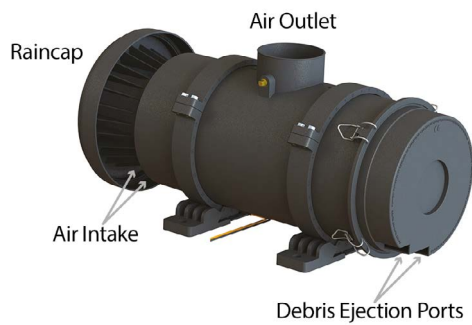
**Partly thanks to this technology the filters of this system last incredibly long!**

## Installation

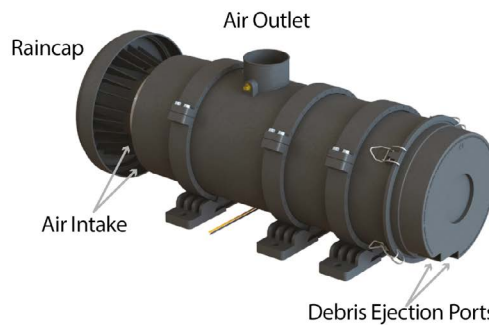
Questions?  
We're here to help!

- The XLR® can be mounted horizontally or vertically. The dirt ejection ports can be rotated in any direction.
- Our systems include a filter, raincap and mounting brackets.
- The standard length unit requires 160 mm of clearance to service the filter. The extended length unit requires 315 mm of clearance.
- Connect the XLR® air outlet to the air inlet of your OEM engine air filter housing.

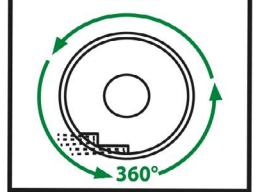
### Standard length filter housing



### Extended length filter housing



Debris Ejection Ports can be oriented in any direction. Outlet can be oriented in 10° increments



The XLR® covers engine air flows up to 9.9 m<sup>3</sup>/min with a single unit and much higher with multiple unit installations.

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