

Standard for clean air

KLR®-Filter High-performance filter elements for separating emissions from various applications

Filter Benefit Overview

- Long-lasting filter service life: up to 20,000 operating hours
- Increased energy savings
- Separation efficiency of > 99.9%
- Filterplate made of polyester fleece with optional features (suitable for diverse applications)
- Clean air emissions value as low as < 0.1 mg/m³
- Ability to recirculate clean air back into the operating facility
- Options for installation on the dirty or clean air side of the dust collector



The original KLR®-Filter

This new filter generation design has increased service life and provides decreased energy consumption.



Introducing the KLR®-Filter generation

Keller possesses decades of experience in the separation and extraction of manufacturing emissions from diverse industries.

From increased customer demand, especially for prolonged filter service life, Keller decided to use their industry expertise to develop a new generation of

filters: KLR®-Filters, the Keller Long Run filter generation.

Increased Surface Area

The surface of the filter was expanded using finer pleats. The pressure loss and resulting energy demand decreased by 5%, accordingly.

Flow-optimised frame construction

The wide sidebars are composed of GRP (Glass Reinforced Plastic) and are streamlined to optimize the inflow of dirty air, while protecting the filter from direct particle impact and excessive wear.

Service Life

The Keller KLR®-Filter set a new service life record with this filter design, with filters lasting up to 20,000 operating hours.

This superior quality was achieved by using premium materials in our high-quality, state-of-the-art in-house manufacturing process.

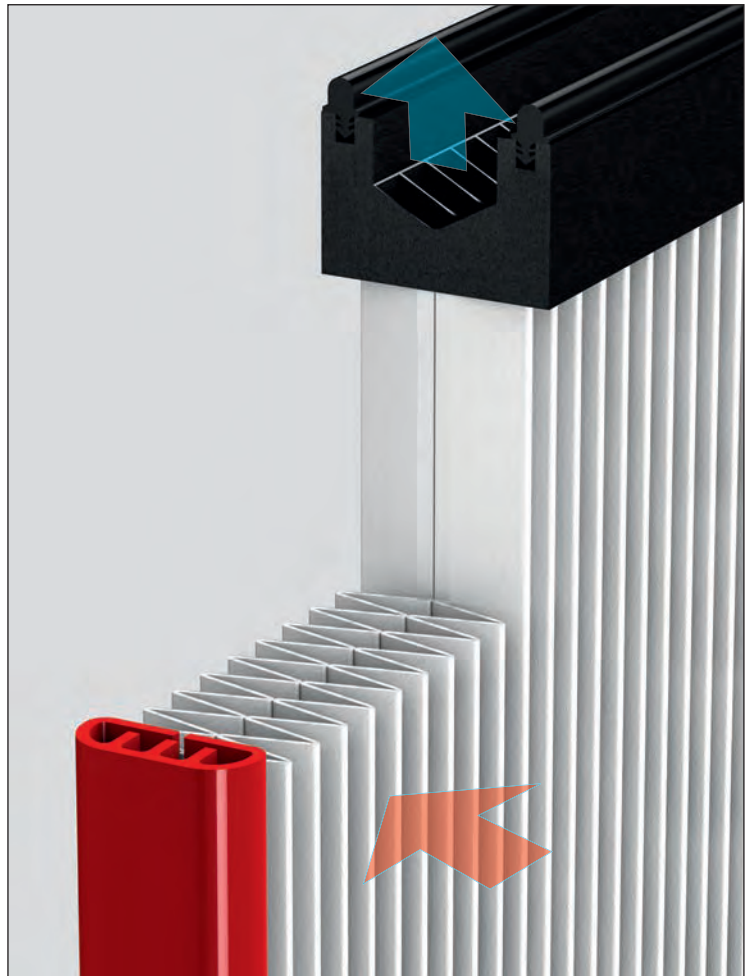
New design for energy conservation

Additional features of the KLR®-Filter are very low filter resistance and optimized dirty air flow, which result in reduced energy usage.

Versatile

Due to their various characteristics, the new KLR®-Filter is suitable for many applications, ranging from thermal processes to grinding processes, to wet painting processes.

Operating temperature up to 230°F (110°C).



This diagram illustrates the design of the Keller KLR®-Filter.

The self-supporting filter plates present a larger number of pleats, thereby increasing the filter surface compared to previous filter generation designs.



- ① KLR®-Filter in standard design
- ② KLR®-Filter in antistatic design

Clean air emissions value < 0.5 mg/m³

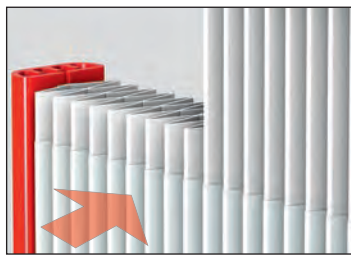


- KLR-bran filter designs
- ③ KLR-bran (standard, including PTFE membrane)
 - ④ KLR-bran as (including membrane + antistatic)
 - ⑤ KLR-bran pure as (including membrane + silicone-free + antistatic)

Clean air emissions value < 0.1 mg/m³

KLR-bran filter element with PTFE Membrane

KLR-bran, a version of the KLR®-Filter generation, is equipped with a PTFE membrane to separate particulates. KLR-bran are suitable for thermal processes and painting processes, as well as for high efficiency air recirculation.



The diagram shows a KLR-bran filter including PTFE membrane



VARIO eco with air recirculation

Air recirculation capability

The KLR® Filter generation is suitable for numerous applications in exhaust air operation, or as an additional feature for air recirculation, even without an additional membrane. This is possible because of its high separation efficiency.

To confirm air-recirculation ability for your application, basic operating conditions must be clarified in advance by the operator. If required, we will be pleased to provide a consultation. All configurations are independently tested to international standards for air recirculation.

Overview of the various versions	KLR	KLR as	KLR-bran	KLR-bran as	KLR-bran pure as
Clean air emissions value: < 0.5 mg/m ³	●	●			
Clean air emissions value: < 0.1 mg/m ³			●	●	●
Application temperature: up to 230°F	●	●	●	●	●
Cleaning pressure: max. 4 bar	●	●	●	●	●
Including PTFE membrane			●	●	●
Antistatic		●		●	●
Silicone-free					●
Service life: up to 20,000 operating hours or up to 120,000 cleaning intervals; for 3 years max.*					

* with intended use according to the instruction manual

The KLR®-Filter is available for different installation methods.

KLR®-Filter for installation on the dirty air side



Sealing gasket for the filter plate is above the header.



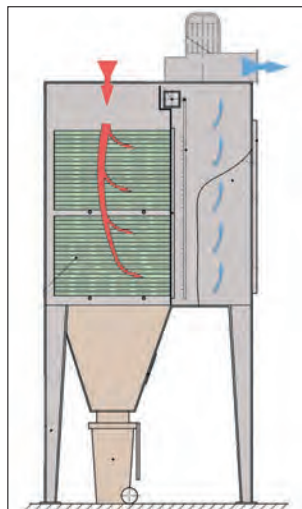
Keller VARIO eco dust collector with KLR®-Filter

For VARIO eco dust collectors, the KLR®-Filter exchange is performed from the dirty air zone.

KLR®-Filter for installation on the clean air side



The sealing gasket for the filter plate is installed below the header.



Keller PT dust collector with KLR®-Filter

For PT dust collectors, the exchange of the KLR®-Filter (horizontal installation) is performed from the clean air zone.



With the GREEN BALANCE initiative, Keller commits to Global Sustainability.

We balance Technological, Social, and Economic resources to sustain the environment.



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