



## High-performance and cost-effective filter bags for *absolute* applications

Eaton's LOFCLEAR 100 filter bags are suitable for a wide range of applications such as the filtration of high-purity fluids with low particulate concentration, first-pass guard filtration, oil adsorption, activated carbon removal and many more.

LOFCLEAR 100 filter bags feature high-strength sewn, three-layer construction which is welded to the SENTINEL® seal ring. These filter bags have efficiencies of greater than 99% over a wide range of particle sizes, with dirt-holding capacities of up to 250 g.

### Features and benefits

- Layers of melt-blown polypropylene filter material help to clean fluid gradually and reliably
- Patented SENTINEL seal ring provides 100% bypass-free filtration
- 100% pure polypropylene fibers without any lubricants
- Spunbond cover layer virtually eliminates fiber release and migration
- Material is free from silicone and crater-forming substances<sup>1</sup>

- Enables *absolute* filtration in many applications where standard filter bags are currently used for cost reasons
- The fiber structure of the filter bag material breaks up gels and retains them within the material depth
- Eaton strongly recommends the use of an insertion tool that facilitates the insertion of the filter bag into the bag filter housing and ensures the correct alignment of the filter bag inside the restrainer basket

### Filter specifications

**Material**  
Melt-blown polypropylene

**Cover layer**  
Spunbond polypropylene

**Seal ring**  
Welded polypropylene SENTINEL seal ring

**Retention ratings<sup>2</sup>**  
4, 5, 10, 15, 20, 30, 40 µm  
@ >99% efficiency

### Dimensions/Parameters

#### Sizes

01: Ø 180 x 430 mm L  
02: Ø 180 x 810 mm L

#### Filter area

01: 0.24 m<sup>2</sup>  
02: 0.48 m<sup>2</sup>

**Max. operating temperature**  
90 °C

**Max. differential pressure**  
2.5 bar

**Recommended change-out pressure for disposal<sup>3</sup>**  
0.8 – 1.5 bar

**Max. flow rates<sup>4</sup>**  
01: 8 m<sup>3</sup>/h  
02: 15 m<sup>3</sup>/h



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# LOFCLEAR 100 Filter Bag Range

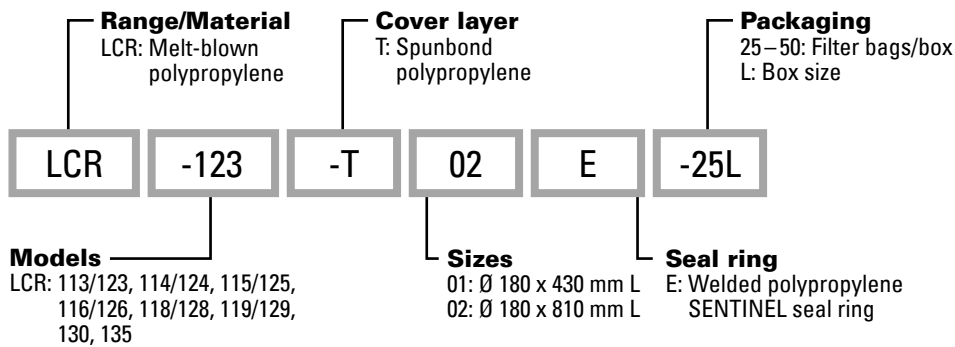
## Filter removal efficiency

Models size 01/02	Particle sizes (µm) at common removal efficiencies (%)				Δp (bar) size 02 @ 10 m³/h	Max. operating temperature (°C)
	> 60%	> 90%	> 95%	> 99%		
113/123	0.5	1	2	4	0.025	90
114/124	0.75	2	3	5	0.02	90
115/125	1.5	3.5	8	10	0.01	90
116/126	2	6	13	15	< 0.01	90
118/128	25	35	37	40	< 0.01	90
119/129	15	25	27	30	< 0.01	90
130	6	14	15	20	0.05	90
135	1	6	8	10	0.02	90

## Welded SENTINEL seal ring



## Ordering information



<sup>1</sup> Based on an accepted paint compatibility test (see document QUC-STA-10).

<sup>2</sup> Reference values based on single pass tests in ambient lab conditions with ISO test dust in water at 10 m³/h/size 02.

<sup>3</sup> Depending on the respective application requirements.

<sup>4</sup> For liquids with a dynamic viscosity of 1 mPa·s @ 20 °C.

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