



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 substances¹

- 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 ratings²
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 m²
02: 0.48 m²

Max. operating temperature
90 °C

Max. differential pressure
2.5 bar

Recommended change-out pressure for disposal³
0.8 – 1.5 bar

Max. flow rates⁴
01: 8 m³/h
02: 15 m³/h



Powering Business Worldwide

LOFCLEAR 100 Filter Bag Range

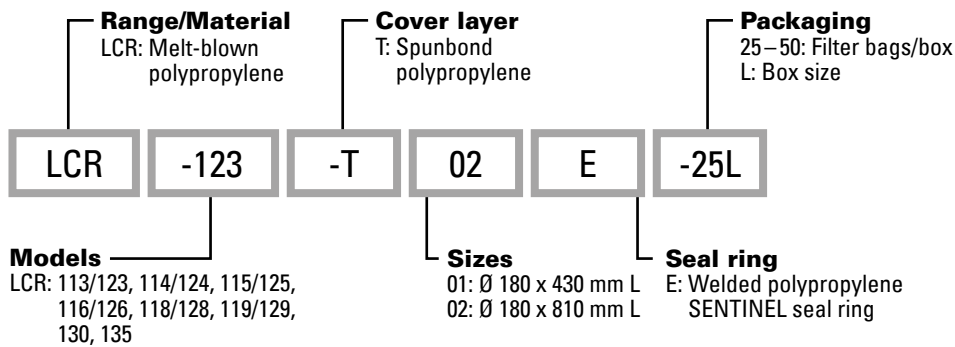
Filter removal efficiency

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



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

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

³ Depending on the respective application requirements.

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

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