



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

Eaton's LOFCLEAR 500 filter bags are suitable for a wide range of applications such as the filtration of oils and slurries, dilute oil removal, process fluids with heavy contamination and many more.

LOFCLEAR 500 filter bags feature fully-welded, multi-pleated construction for high efficiency and long service life. This range has a pleated pre-filter and a complex arrangement of final filter layers, allowing the removal of difficult-to-filter gels and deformable particles with a high dirt-holding capacity. The webbed cover layer virtually eliminates any downstream fiber migration.

Features and benefits

- Fully-welded construction with patented Santoprene™ SENTINEL® seal ring provides 100% bypass-free filtration
- High dirt-holding capacity of more than 2.2 lbs (1,000 g)
- Pleated pre-filter provides a very large filter area (approx. 32 ft² (3 m²))
- Material is free from silicone and crater-forming substances¹
- 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 Santoprene
SENTINEL seal ring

Retention ratings²
2.6, 6, 13, 32 µm
@ > 99% efficiency

Dimensions/Parameters

Size
02: Ø 7 x 31" L (180 x 795 mm)

Filter area
02: 5.2 ft² (0.48 m²)
(plus approx. 32 ft² (3 m²) pleated pre-filter)

Max. operating temperature
194 °F (90 °C)

Max. differential pressure
36.2 psi (2.5 bar)

Recommended change-out pressure for disposal³
11.6 – 21.7 psi (0.8 – 1.5 bar)

Max. flow rates⁴
02: 53 GPM (12 m³/h)

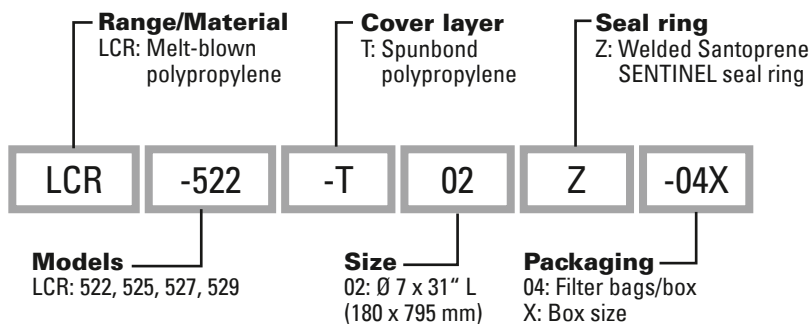
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LOFCLEAR 500 Filter Bag Range

Filter removal efficiency

Models	Particle sizes (µm) at common removal efficiencies (%)				Δp psi (bar) size 02 @ 44 GPM (10 m³/h)	Max. operating temperature °F (°C)
	> 60%	> 90%	> 95%	> 99%		
522	0.5	1	1.5	2.6	1.9 (0.13)	194 (90)
525	1	2	3.5	6	1.2 (0.08)	194 (90)
527	2	5	9	13	0.1 (0.008)	194 (90)
529	10	20	23	32	< 0.1 (0.005)	194 (90)

Ordering information



A pleated pre-filter offers a very large filter area (approx. 32 ft² (3 m²)), to retain gels and solids before they reach subsequent filter layers.

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 44 GPM (10 m³/h)/size 02.

³ Depending on the respective application requirements.

⁴ For liquids with a dynamic viscosity of 1 mPa·s @ 68 °F (20 °C).

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