

LCR 500 Series Oil-Holding Filter Bag

Introduction

The LCR 500 Series filter bag uses the patented bypass and transport layer design that maximizes the particle containment and surface area of each filter. This range has a complex arrangement of final filter layers, allowing the removal of difficult-to-filter gels and deformable particles with a high dirt-holding capacity. Compared to a normal filter bag with 4.4 square feet (0.41 m²) area. The LCR 500 series filter bag can reach 38 square feet (3.53 m²)



Specifications

- ◇ Filter Media: Melt-blown polypropylene microfiber filter media provides high particle removal efficiency with broad chemical compatibility
- ◇ FDA compliant according to CFR Title 21
- ◇ Sealing Ring: Stainless steel and Polypropylene ring available

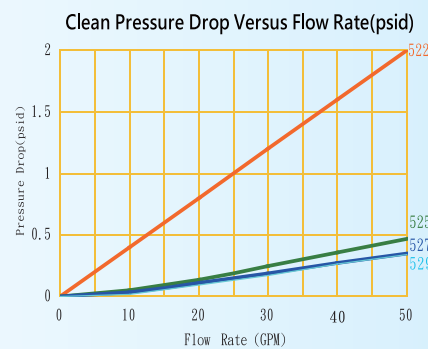
Applications (Pre-filtration or Final filtration)

Acids and bases/Amines/Carbon Beds/Makeup Water/Deep Wells/Desalination/DI Resins/Glycol/Organic Solvents/Groundwater Cleanup /Machine Coolants/Completion Fluids/Photo Chemicals/Plating Solutions /RO Membranes/Storm Water /Waste Water /Flood Water

Particle Removal Efficiency

Product Number		522	525	527	529
Performance Data	Dirt-Grams at 25 gpm (5.6 cu m/hr)	308	489	755	980
	Oil-Grams at 50 gpm (11.2 cu m/hr)	215	430	645	925
	Oil-Grams at saturation **mineral oil**	4785	5072	6689	3625
Loading Capacity	Efficiency@99%	2.5	5.0	15	48
	Efficiency@95%	1.5	3.0	9	35
	Efficiency@90%	0.9	1.5	8	30
	Efficiency@75%	<0.7	1.0	7	22
	Efficiency@50%	<0.7	<1.0	4	8

Initial Pressure Drop



Pressure Drop : The 500 series High Performance filter Bags have low initial pressure drop (Δp) in water as the chart indicates, The chart includes the pressure drop of a typical single vessel to assist you in sizing your filter system.

Operating Conditions

522	2.5 micron @99%
525	5.0 micron @99%
527	15 micron @99%
529	48 micron @99%

- ◇ Max. operating temperature: 82°C/ 180°F
- ◇ Recommended water flow rate : 25 gpm (5.7 m³/hr)
- ◇ Suggested Max. water flow: 50 gpm (11 m³/hr)
- ◇ Suggested Max. differential pressure: 35 psid (2.4 bar)

Loading: Loading capacity is extremely high due to the large amount of surface area available. The data above shows typical loading capacities of the different micron-rated filters. Loading capacity is determined by challenging a filter with a dispersion of silica test dust in water at the recommended flow rate. Pressure drop is monitored and testing is terminated at 35 psid (2.4 bar). The loading capacity reported is the dry weight gain of the bag.

Product Code

LCR

522

P1

F

L

Product Model

Size

Collar Type

Manufacture Type

522
525
527
529

P1 : 7"*17"
(180mm*430mmL)
P2 : 7"*32"
(180mm*810mmL)

SS : Stainless Steel
S : Carbon Steel
F : F Type
G : G Type
N : Non Collar

L: Welded