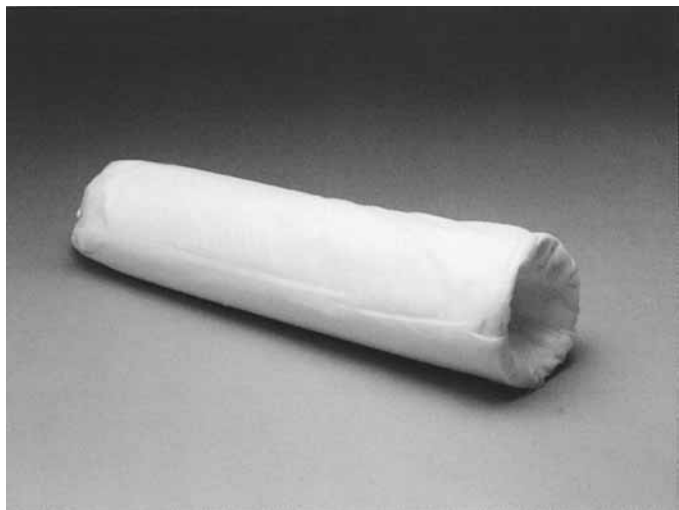


## Series 500 - High Performance Liquid Filter Bags



Series 500 High Performance Liquid Filter Bag incorporates the bypass and transport layer design that maximizes the amount of surface area in each bag. The result is a filter designed to improve performance and reduce operating costs. The filter contains up to 38 square feet of usable filter media. Compare this with only 4.4 square feet for most competitive filter bags and 0.65 square feet for most competitive cartridges.

To make use of this entire surface area, the Series 500 Liquid Filter Bag is constructed using the Bypass/Transport concept, specially designed bypass holes are cut into certain areas of the filter media to prevent premature blinding of the filter. In conjunction with the bypass design, a second media called a transport layer helps to distribute fluid flow evenly through the filter. The outer layers of the filter provide a highly uniform barrier for final particle filtration. This construction results in very high dirt loading capacity, even at high flow rates. There are no sewn seams used in any of the filtering layers, thus allowing high filtration efficiencies for fine particles.

The Bypass/Transport filter technology is manufactured in a filter bag form to provide additional operational advantages:

- ◆ Changeout time – easier and faster, less labor required
- ◆ Bag compressibility – easier and less costly disposal
- ◆ Contaminant captured inside the bag – easier handling

### MATERIALS OF CONSTRUCTION

#### Filter Media:

Melt blown polypropylene microfiber filter media provides high particle removal efficiency for high quality filtration with broad chemical compatibility.

No silicone is intentionally used in materials of construction or in manufacturing.

The raw materials composing these filters are FDA compliant according to CFR Title 21.

#### Ring and Bottom Clamp:

- Acids and bases
- Amines
- Carbon beds
- Completion fluids
- Deep wells
- Desalination
- DI resins
- Glycol
- Groundwater clean-up
- Machine coolants
- Makeup water
- Organic solvents
- Photo chemicals
- Plating solutions
- RO membranes
- Storm Water

Stainless Steel

### APPLICATIONS

Prefilters or Final Filters for:

### PERFORMANCE DATA

#### Loading Capacity

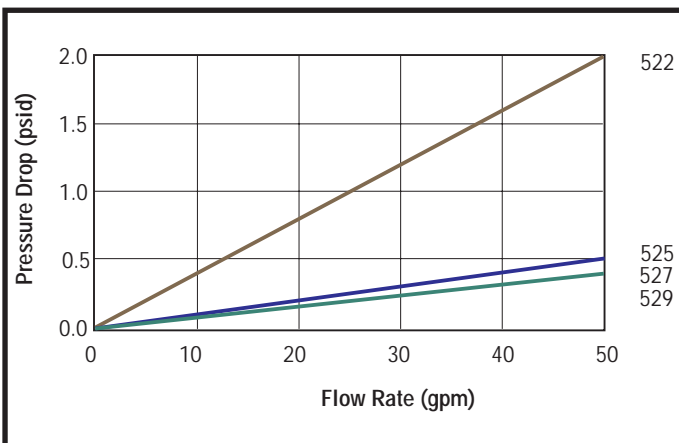
Model Number	522	525	527	529
Dirt - grams at 25 gpm (5.6 cu m/hr)	308	489	755	980
Dirt - grams at 50 gpm (11.2 cu m/hr)	215	430	645	925
Mineral Oil - grams at saturation	4725	50251	6675	3595

**Loading:** 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.

#### Particle Removal Efficiency (microns)

Model Number	522	525	527	529
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
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**Efficiency:** The Series 500 High Performance Filter Bags are rated using a silica test challenge in water at 25 gpm (5.7 cu m/hr). The results reported are typical

initial efficiencies taken within ten minutes of the start of the test and are cumulative data.

### CLEAN PRESSURE DROP VERSUS FLOW RATE (PSID)

**Pressure Drop:** The Series 100 High Performance Filter Bags have low initial pressure drop ( $\Delta p$ ) 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

Maximum Operating Temperature	180° F (82° C)
Recommended Flow (in water):	25 gpm( 5.7 cu m/hr)
Suggested Maximum Flow (in water):	50 gpm (11 cu m/hr)

### PRODUCT SPECIFICATIONS

Model Number	Micron Rating Initial Efficiency	Part Number	Length	Outer Diameter	Cartridges per Case
522	2.5 micron @ 99%	70-0708-1218-8	#2 size: 32 in (81 cm)	7 in (18 cm)	4
525	5.0 micron @ 99%	70-0702-3335-1			
527	15 micron @ 99%	70-0702-3168-6			
529	48 micron @ 99%	70-0702-3338-5			

### WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B. point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by the Seller to be defective.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's equipment but not supplied by the Seller.



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