

R Platinum ABSOLUTE-RATED Bag-Sized Cartridges

Maximum dirt-holding capacity

Our line of Platinum absolute-rated filter cartridges offer maximum dirt holding capacity coupled with micron retention ratings to 0.5 at 99.98% efficiency.

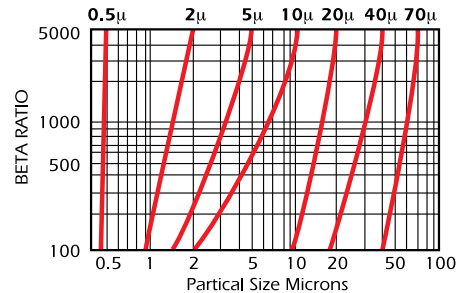
These elements are manufactured in a unique patented pleat arrangement (U.S. Patent No. 5824232) that optimizes its physical size and maximizes effective surface area. Flow channels distribute a steady flow into the element. Pre-filtration and final filtration layers provide high efficiency. A low fluid flux rate maximizes dirt containment. This means element life is extended and productivity is increased, resulting in fewer cartridge change-outs less labor and lower replacement costs.

Design Details

This design uses only the highest quality materials and most advanced manufacturing processes. The end caps are heat sealed for high efficiency performance. The o-ring seal insures sealing and eliminates bypass.



Rosedale BETA Curves



The Beta Ratio (β) at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

$$\text{Filter Efficiency (\%)} = \left[\frac{\beta - 1}{\beta} \right] \times 100\%$$

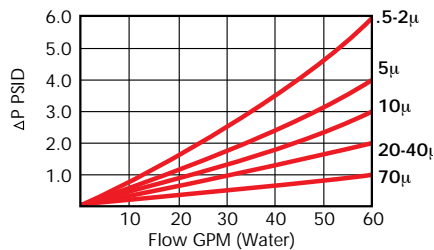
Beta Ratio (β)	100	1000	5000
Filter Efficiency (%)	99.00	99.90	99.98

Each filter element will have a different Beta Ratio for every specified particle size. The determination of a variety of Beta values for the same filter provides a filter efficiency profile commonly referred to as a Beta Curve.

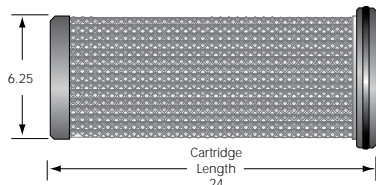
Platinum 500

- 68 sq. ft. of surface area maximum
- 12 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ $\beta 5000$ or 99.98% efficiency
- Flow rates to 50 gpm.
- 6.25-inch diameter and 24-inch length
- Fits into standard Rosedale Model 8, Multiple-bag housings, Polypropylene, and Multi-cartridge housings

Flow Rate Vs. ΔP



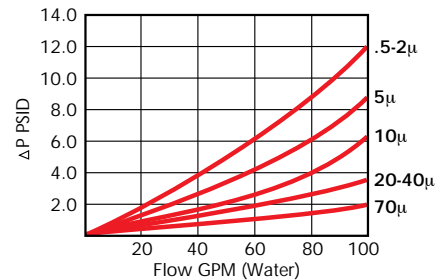
Dirt Holding Capacity



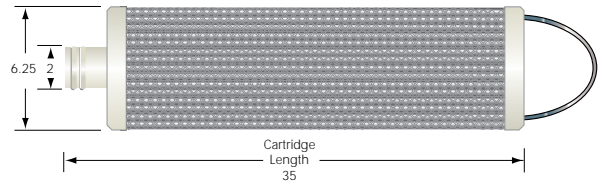
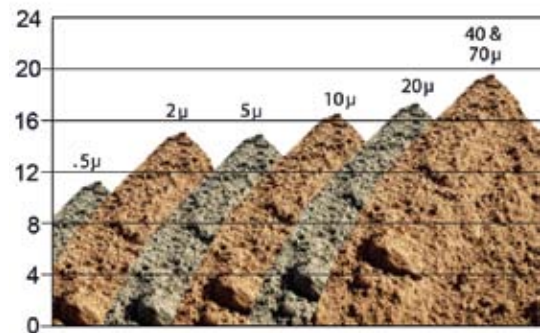
Platinum 700

- 100 sq. ft. of surface area maximum
- 20 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ $\beta 5000$ or 99.98% efficiency
- Flow rates to 100 gpm.
- 6.25-inch diameter and 35-inch length
- Fits into standard Rosedale Model 8, Polypropylene, and Multi-cartridge housings

Flow Rate Vs. ΔP



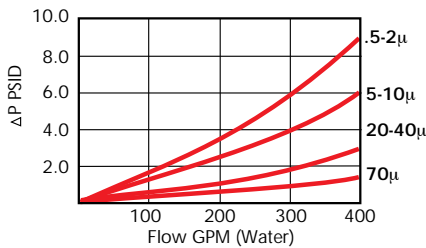
Dirt Holding Capacity



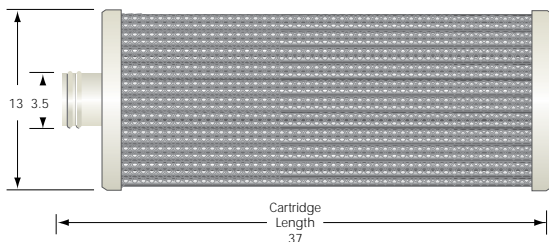
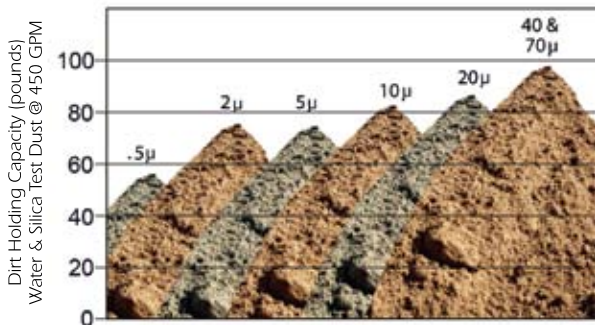
Platinum 900

- 400 sq. ft. of surface area maximum
- 100 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ $\beta 5000$ or 99.98% efficiency
- Flow rates to 800 gpm
- 13-inch diameter and 40-inch length
- Rosedale housings can hold multiple cartridge elements

Flow Rate Vs. ΔP



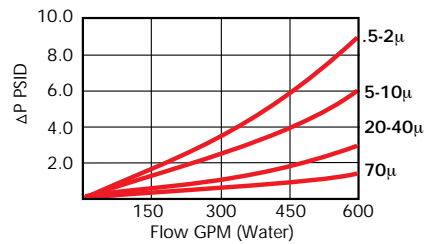
Dirt Holding Capacity



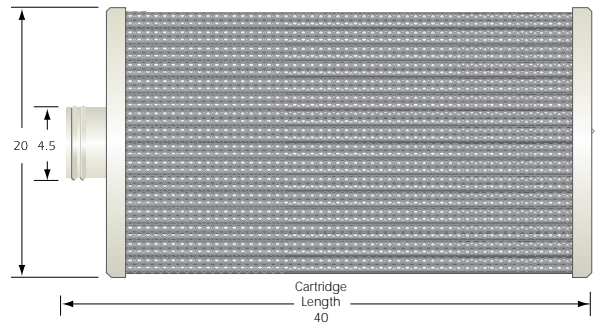
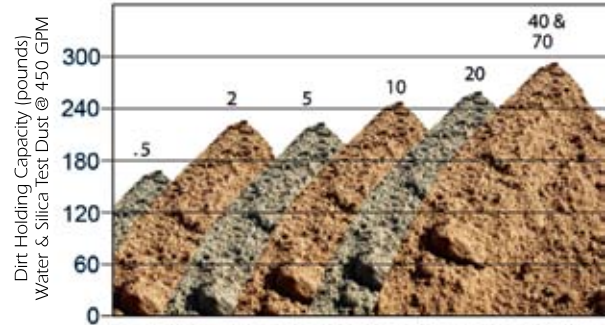
Platinum 2040

- 1150 sq. ft. of surface area maximum
- 250 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ $\beta 5000$ or 99.98% efficiency
- Flow rates to 800 gpm
- 20-inch diameter and 40-inch length
- Rosedale housings can hold 1 element

Flow Rate Vs. ΔP




Dirt Holding Capacity



R How To Order Build an ordering code as shown in the example

Example: PS - 520 - P241

<p>PLATINUM SERIES = PS</p> <p>MICRON RATING Series 500 (99.98%) 0.5 Micron = 520 2 Micron = 521 5 Micron = 523 10 Micron = 525 20 Micron = 527 40 Micron = 528 70 Micron = 529</p> <p>Series 700 @ Beta 5000 0.5 Micron = 740 2 Micron = 741 5 Micron = 743 10 Micron = 745 20 Micron = 747 40 Micron = 748 70 Micron = 749</p> <p>Series 900 @ Beta 5000 0.5 Micron = 940 2 Micron = 941 5 Micron = 943 10 Micron = 945 20 Micron = 947 40 Micron = 948 70 Micron = 949</p> <p>Series 2040 @ Beta 5000 0.5 Micron = 2040 2 Micron = 2041 5 Micron = 2043 10 Micron = 2045 20 Micron = 2047 40 Micron = 2048 70 Micron = 2049</p>	<p>LENGTH & SEAL* Series 500 241 = Length (24" OAL) Seal-1 (EPR Seal)</p> <p>Series 700 356 = Length (35" OAL) Seal-6 (EPR 226 O-Ring)</p> <p>Series 2040 40 = Length-40" Seal-5 (235 EPR O-Ring)</p> <p>FILTER MEDIA P = Polypropylene G = Glass R = Polyester C = Cellulose</p> <p style="text-align: right;"><small>*Other seal materials available on request</small></p> <div style="text-align: center;">  <p>*For 520 unit only</p> </div>
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Use with Model 8 or Multi-Bag Housings