

R Platinum 500 ABSOLUTE-RATED Bag-Sized Cartridges

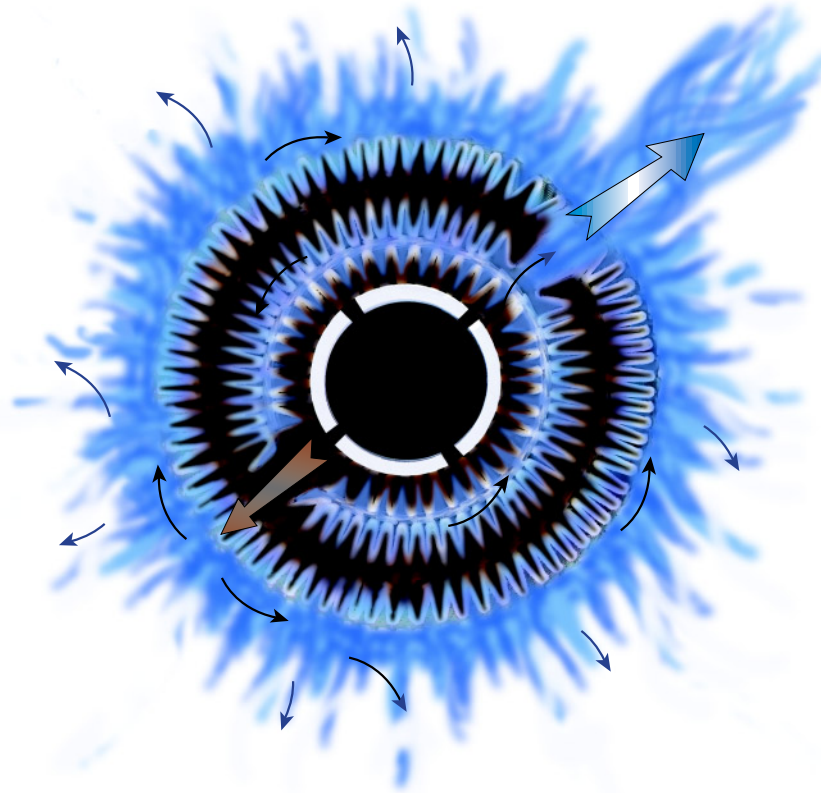
Maximum dirt-holding capacity

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

Features

- 85 sq. ft. of surface area
- 12 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ β 5000 or 99.98% efficiency
- Flow rates to 50 gpm.
- 6.25-inch diameter and 24-inch length
- Fits into standard Rosedale Model 8, Polypropylene, and Multi-cartridge housings (See pages 1 and 2 for housing information)

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



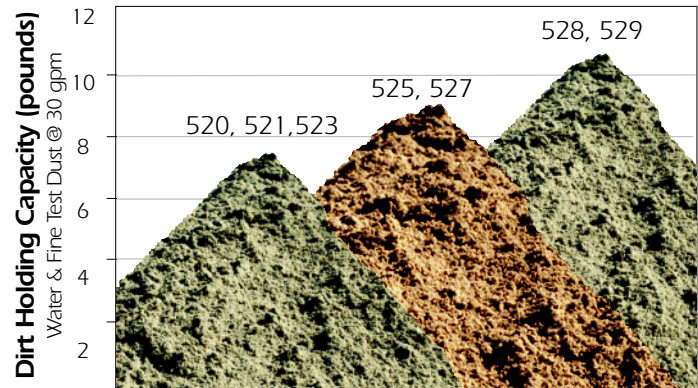
replacement costs. With the Platinum 700, cartridge change-out is completed in minutes. (See the Cost Analysis chart for comparison.)

Design Details

This design uses only the highest quality materials and most advanced manufacturing processes. The element fits into standard size 2 baskets and functions similar to a bag (flowing inside to outside). The end caps are heat sealed for high efficiency performance. The o-ring seal insures sealing and eliminates bypass.

Dirt Holding Capacity

(Platinum Series #2 bag)



R How To Order

Build an ordering code as shown in the example.

500 Series **Example: PS - 520 - P241**

PLATINUM SERIES = PS

MICRON RATING (99.98%)

0.5 Micron	=	520
2 Micron	=	521
5 Micron	=	523
10 Micron	=	525
20 Micron	=	527
40 Micron	=	528
70 Micron	=	529

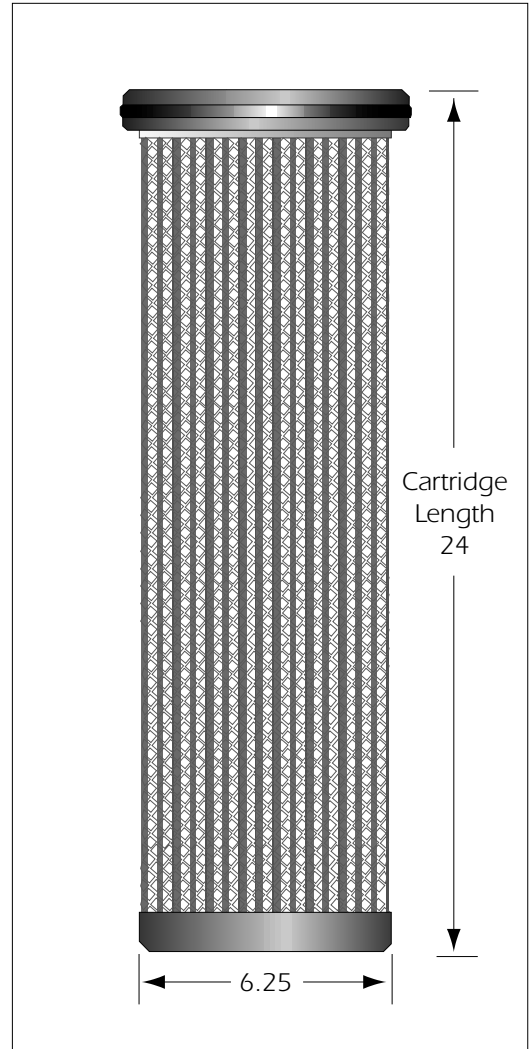
FILTER MEDIA

Polypropylene	=	P
Glass	=	G
Polyester	=	R
Cellulose	=	C

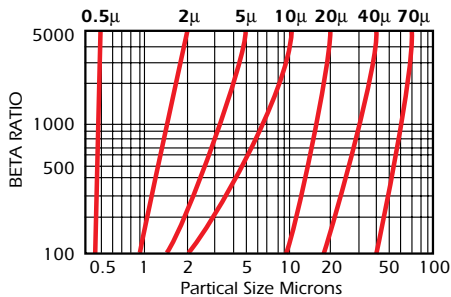
LENGTH & SEAL *

Length (24" OAL)	=	241
Seal-1 (EPR Seal)		

*Other seal materials available upon request



Rosedale BETA Curves



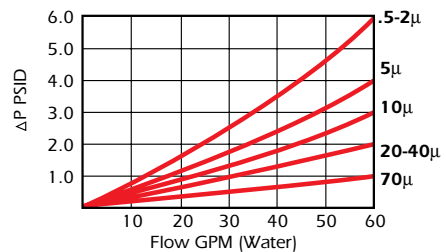
The Beta Ratio (β) at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

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

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.

Flow Rate Vs. ΔP



NEW

R Platinum 700 ABSOLUTE-RATED Cartridges

Ultra high capacity filter eliminates maintenance by providing high dirt removal

The new Platinum 700 cartridge filter will ease your filtration-servicing problems. A single cartridge unit has the life of 40 standard wound or 10 pleated cartridges reducing maintenance.

Features

- 120 sq. ft. of surface area
- 20 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ β 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 (See pages 50-52 for Cartridge Housing information)

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. With the Platinum 700, cartridge change-out is completed in minutes. (See the Cost Analysis chart for comparison.)

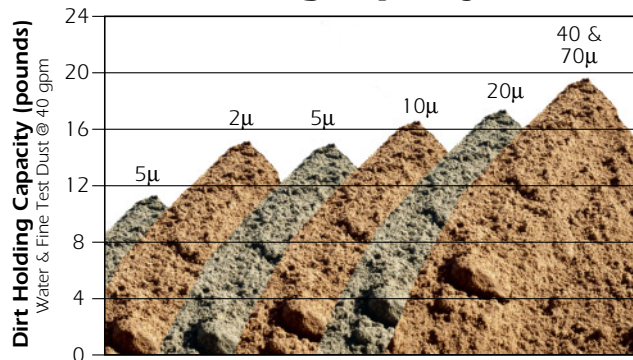
Design Details

This design uses only the highest quality materials and most advanced manufacturing processes. Heat sealed end caps and a stainless steel handle are standard on each element, to facilitate quick and easy removal. The double o-ring seal insures sealing in the housing, eliminating bypass. (See pages 50-52 for Cartridge Housing information.)

700 SERIES COST ANALYSIS

	6 x 40" String Wound Cartridges @ 40 μ	ROSEDALE 700 Series @ 40 μ
Dirt Holding Capacity	3 lbs Per Change Out	20 lbs
Service Interval	5 Days	5 Weeks
Cost	Using Existing Housing \$1.90 x 27 = \$51. + \$40. Labor (1/2 Hour)	Housing = \$1,000. Elements = \$175. Each + \$20. Labor (15 Minutes)
Yearly Operating Cost	\$6,309.	First Year = \$3,028. Thereafter = \$2,028.
Operating Savings Per Year	—	First Year = \$3,281. Thereafter = \$4,281.
Yearly Disposal Cost	60 Carts/Drum x 7 Drums/Yr @ \$500. Each Disposal Cost = \$3,500.	1 Element/Drum x 2 Drums/Yr @ \$500. Each Disposal Cost = \$1,000.
Disposal Savings Per Year	—	\$2,500.
TOTAL SAVINGS AFTER 1st YEAR	—	\$6,781.

Dirt Holding Capacity



How To Order

Build an ordering code as shown in the example.

700 Series **Example: PS - 740 - P356**

PLATINUM SERIES = PS

MICRON RATING @ Beta 5000

0.5 Micron	= 740
2 Micron	= 741
5 Micron	= 743
10 Micron	= 745
20 Micron	= 747
40 Micron	= 748
70 Micron	= 749

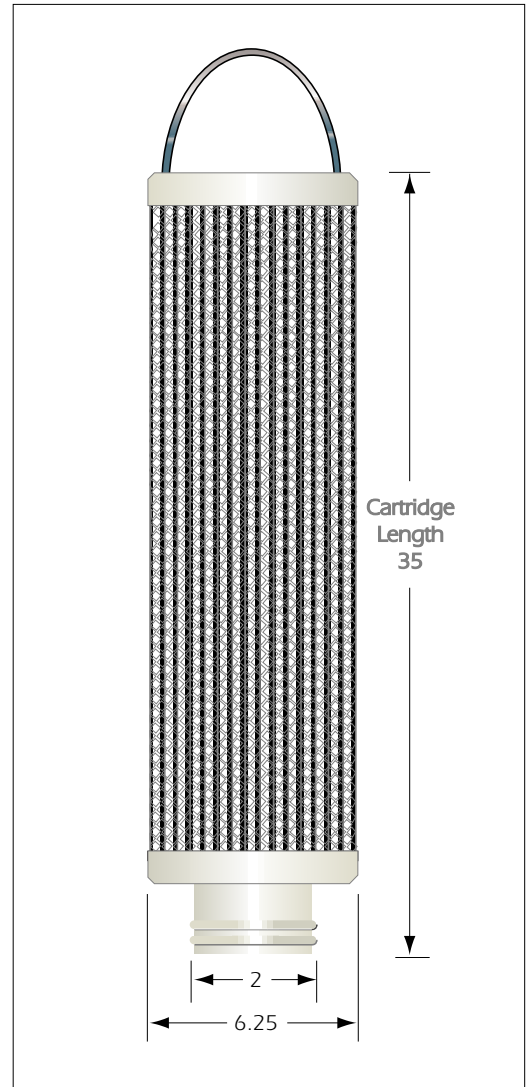
FILTER MEDIA

Polypropylene	= P
Glass	= G
Polyester	= R
Cellulose	= C

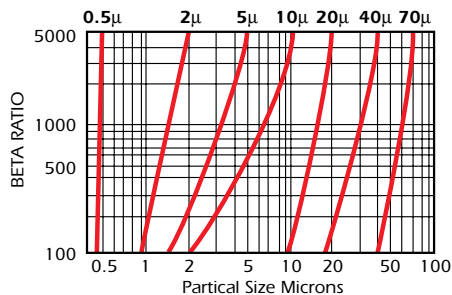
LENGTH & SEAL*

Length (35" OAL)	= 356
Seal-6 (EPR 226 O-Ring)	

*Other seal materials available on request



Rosedale BETA Curves



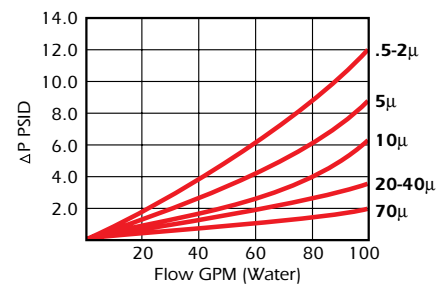
The Beta Ratio (β) at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

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

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.

Flow Rate Vs. ΔP



NEW

R Platinum 900 ABSOLUTE-RATED Cartridges

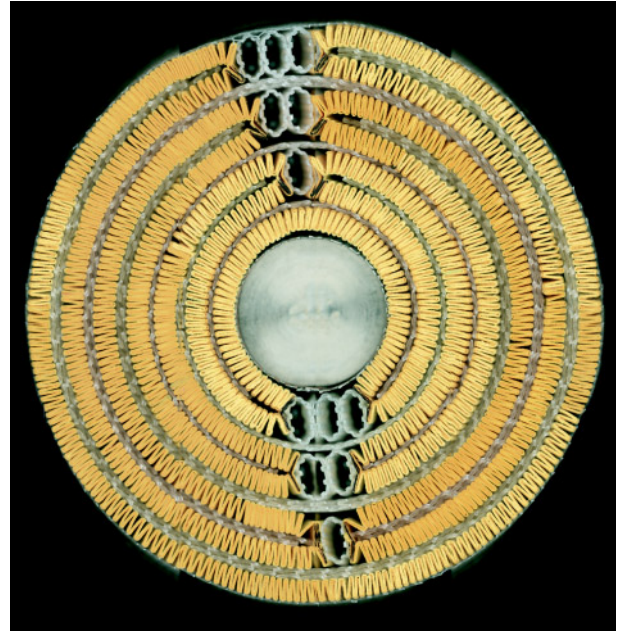
Ultra high capacity filtration system provides maximum dirt load retention and removal—eliminating maintenance!

End the high cost of element change-out with the Platinum 900-cartridge filter system. Imagine changing a filter element only once or twice a year, instead of changing several cartridges on a weekly or daily basis! A single cartridge unit has the life of 200 standard wound or 50 pleated cartridges, reducing maintenance.

Features

- 600 sq. ft. of surface area
- 100 lbs. (approx.) of dirt carrying capacity
- Rated 0.5 micron to 70 micron @ β 5000 or 99.98% efficiency
- Flow rates to 400 gpm
- 13-inch diameter and 40-inch length
- Rosedale housings can hold 1, 3, 4, 7, or 8 cartridge elements
(See pages 53-54 for Cartridge Housing information)

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. With the Platinum 900, cartridge change-out is significantly extended. (See the Cost Analysis chart for comparison.)

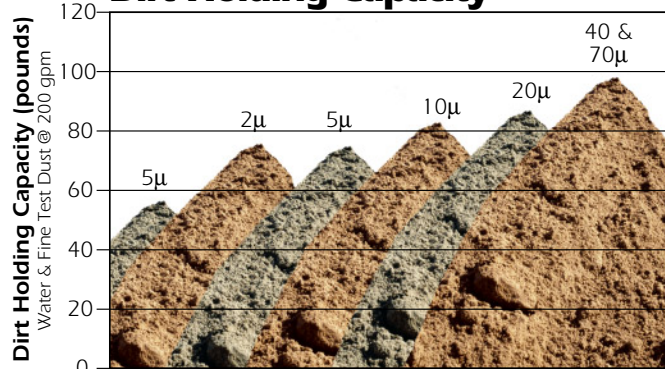
Design Details

This design uses only the highest materials and most advanced manufacturing processes. Stainless steel core and end caps are ideal for higher temperature applications. The double o-ring seal insures sealing in housing, eliminating bypass. (See pages 53-54 for Cartridge Housing information.)

900 SERIES COST ANALYSIS

	27 x 40" String Wound Cartridges @ 40μ	ROSEDALE 900 Series @ 40μ
Dirt Holding Capacity	14 lbs Per Change Out	100 lbs
Service Interval	3.5 Weeks	25 Weeks
Cost	Using Existing Housing \$8.50 x 27 = \$229.50 + \$80. Labor (1 Hour)	Housing = \$3,500. Elements = \$1,175. Each + \$20. Labor (15 Minutes)
Yearly Operating Cost	\$4,598.	\$2,390.
Operating Savings Per Year	—	\$2,208.
Yearly Disposal Cost	60 Carts/Drum x 7 Drums/Yr @ \$500. Each Disposal Cost = \$3,500.	1 Element/Drum x 2 Drums/Yr @ \$500. Each Disposal Cost = \$1,000.
Disposal Savings Per Year	—	\$2,500.
TOTAL SAVINGS AFTER 1st YEAR	—	\$4,708.

Dirt Holding Capacity



R How To Order

Build an ordering code as shown in the example.

900 Series **Example: PS - 940 - P405**

PLATINUM SERIES = PS

MICRON RATING @ Beta 5000

0.5 Micron	= 940
2 Micron	= 941
5 Micron	= 943
10 Micron	= 945
20 Micron	= 947
40 Micron	= 948
70 Micron	= 949

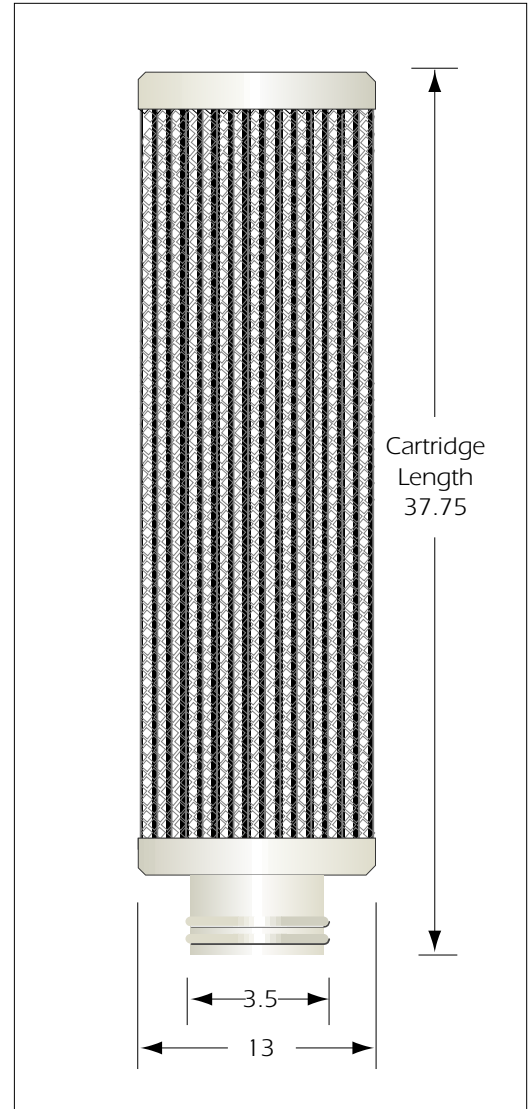
FILTER MEDIA

Polypropylene	= P
Glass	= G
Polyester (2-70 micron)	= R
Cellulose (5-70 micron)	= C

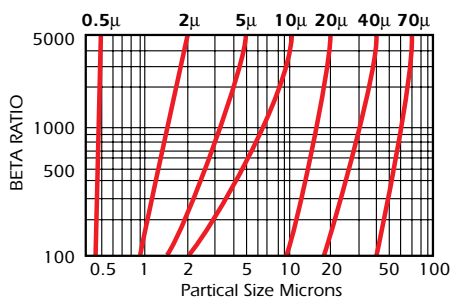
LENGTH & SEAL *

Length-40 (Actual 37.75")	= 405
Seal-5 (235 EPR O-Ring)	

*Other seal materials available on request



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.

Flow Rate Vs. ΔP

