



RP PAINT ARRESTORS

SPRAY BOOTH EXHAUST FILTRATION PRODUCTS

3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | SPRA-CUBE



RP Paint Arrestors is dedicated to helping customers find the proper match for overspray collection needs. Whether dealing with Automotive, General Industrial, Aerospace or Wood Finishing industries, RP Arrestors has a product that will fit your needs.

RP PAINT ARRESTORS

ARRESTING PRINCIPLES

The RP Arrestor product line has been designed to provide customers with optimum performance and extended service life. Our filtering media is fabricated from slit and expanded paper or slit and expanded paper with polyester. The Paint Arrestors (PA) are assembled so the intake side has larger openings than the exhaust side. This baffled configuration allows for depth loading for maximum service life. Additionally, every RP Paint Arrestor, including the prefilter series, has the patented face sheet design. It produces unique airflow patterns that better capture and retain overspray by using less material. You save by:

- >> Reducing the volume of stored material
- >> Reducing the number of change-outs
- >> Reducing down time
- >> Reducing the amount of material to dispose

RP Paint Arrestors derive their performance from the filtration principles of straining and impingement. Straining occurs when the paint particle is too big to fit between the openings in the filter media. This occurs with particles that are 20 microns or larger. Impingement occurs when a particle is moving along the airstream and its inertia causes the particle to collide with the media fiber. Our product lines that utilize a polyester layer are able to strain out almost all of the remaining paint particles that make it through the paper filter media. Because every application is unique, RP Paint Arrestors has designed different paper and polyester combinations to accommodate the specific needs of its customers.

SELECTING THE PROPER PAINT ARRESTOR

Factors influencing the choice of Paint Arrestor for your application include the type of paint being sprayed and the expected life of the PA. Refer to Paint Arrestor Selection chart as a guideline for selecting the PA Series that is suitable for the type of paint you are spraying. Life of the PA depends on the amount of paint being sprayed, volume of paint being sprayed, holding capacity of the PA, and the airflow characteristics of your booth.

As paint collects on the PA, resistance to airflow increases. Once the resistance reaches a level that significantly reduces the airflow through the booth, the PA must be changed. PAs that are more efficient may load up more quickly, and as such have a shorter life than less efficient PAs but they also allow less paint to enter the exhaust air system. PAs described as "High Capacity" are made with stiffer baffles which are designed to hold a greater amount of paint before reaching a critical resistance.

The ability of the blower in your exhaust booth to withstand an increase in resistance affects the life of the PAs. A booth that can withstand more resistance before reaching a critical point will increase the life of PAs because they will be able to hold more paint than PAs in a booth that has a more sensitive blower. Consult your booth manufacturers "blower curves" for an indication of how much resistance they can tolerate. Blower curves with steep slopes are less sensitive to increases in resistance that blower curves with shallower slopes.

RP PAINT ARRESTOR SELECTION

Use this chart as a guideline for selecting the PA Series for the type of paint you are spraying.

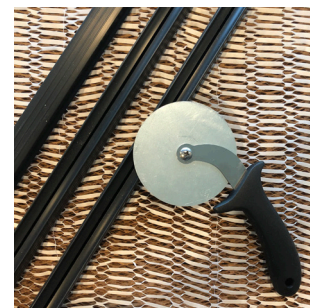
PA Series		3000	3100	3200	3300	3400	3600	3700
Resistance to Airflow		Lower		Average		Higher	Average	Higher
Efficiency		Average	Higher					
Holding Capacity		Lower	Average		Higher			
High Viscosity Coatings (Wet & Sticky)	Adhesive	Good	Good	Better	Best	Best	Best	Best
	Air-Dry Enamels	Good	Better	Better	Best	Best	Better	Best
	Bake-Dry Enamels	Good	Better	Better	Best	Best	Better	Best
	Clear Coat	Good	Better	Better	Best	Better	Best	Better
	Epoxies	Good	Better	Best	Best	Best	Best	Best
	Fiberglass	Good	Better	Best	Best	Best	Best	Best
	Gel Coats	Good	Better	Best	Best	Best	Best	Best
	Hi-Solids Enamels	Good	Better	Best	Best	Best	Best	Best
	Primers - Air Dry	Good	Better	Best	Best	Best	Best	Best
	Teflon	Good	Better	Better	Best	Best	Better	Best
Urethanes	Good	Better	Best	Best	Best	Best	Best	
Low Viscosity Coatings (Wet & Runny)	Stains	Good	Good	Better	Best	Best	Better	Best
	Waterbornes	Good	Good	Better	Best	Best	Better	Best
Dry, Dusty Coatings	Laquers	Good	Good	Better	Best	Good	Good	Good
	Sealers	Good	Good	Better	Best	Good	Good	Good

FilterLoc

HIGH EFFICIENCY RP PAINT ARRESTORS

FilterLoc is Col-Met's new zip-to-lock technology which provides a tighter seal to the booth eliminating overspray bypass into the exhaust chamber. The new technology provides savings by allowing the utilization of roll media reducing overall cost. The quick and easy system decreases overall filter change out time.

FilterLoc, for use with all Col-Met RP Arrestors, is the quick and easy way to change out filters by eliminating the need for clips or pins. FilterLoc track is designed to be mounted to the spray booth. Once the track is mounted, it only takes seconds to secure the filter in place eliminating the need to overlap filters, saving money.



HIGH EFFICIENCY RP PAINT ARRESTORS

3000 SERIES: The 3000 Series provides good all around performance for general applications and can be used for most coatings applied by the various spray coating methods. The 3000 series provides an environmentally friendly, degradable solution for any customer's economic overspray needs. Available in both rolls and modular pad form, its recommended usage consists of two pads or rolls assembled in tandem.



3100 SERIES: This product has all the characteristics of the 3000 Series, but is designed to hold up to twice the overspray before changing is required. This double service life makes this series ideal for high production applications and wherever a large volume of coating is applied in a relatively small booth space. This longer service life results in less down time, fewer changeovers and greater economy. Rolls or pads are used in tandem. The product is ideal for heavy, tacky coatings or slower drying finishes, but it is not recommended for quick dry lacquer type coatings.



3200 SERIES: This overspray product is also similar to the 3000 Series, but has an added polyester backing which increases the overall efficiency needed for very finely atomized overspray particles. Producing excellent efficiencies, the 3200 Series results in a 50% reduction of overspray up the stack, and the poly backing makes it ideal for coating at any rate of production. It is available in pad or roll form.



3300 SERIES: The finest efficiencies possible can be achieved with this series of Paint Arrestors. This performance is achieved through the use of a high-density polyester backing which is structurally very strong. Due to the high efficiency, only one roll or pad layer is necessary.



3400 SERIES: This series has all the features and advantages of the 3300 Series, plus a longer service life. It is ideal for extremely high production applications because both peak efficiency and service life can be achieved, thereby reducing down time and increasing the time interval between changes.



3500 SERIES: The 3500 Series was designed as a life extending prefilter. The main application of this product is for use in conjunction with any primary stage overspray filter. Utilizing the 3500 Series Paint Arrester will save on the costs associated with replacing the more expensive primary filter by prolonging its service life. Additionally, it can be used in any spray coating application, plus it increases the flexibility of your operation.



3600 SERIES: The 3600 Series offers both longevity and efficiency. This series has all of the advantages of the 3200 Series plus a longer service life. This product works well in high volume spray applications because the high capacity paper provides service life and the polyester provides high efficiency for small particles. Cleaner paint exhaust stacks and fewer changes of product make the 3600 a preferred total cost solution for many overspray applications.



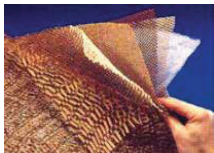
3700 SERIES: The 3700 Series offers both longevity and efficiency. This series has the holding capacity of the 3100 Series but also offers the superior efficiency of two layers of polyester. The final layer of high density polyester is ideal for applications that require maximum particle capture. Cleaner paint exhaust stacks and fewer changes of product make the 3700 Series a preferred total cost solution for many overspray applications.



RP SPRA-CUBE: The RP Spra-Cube extended surface cubes are the latest in RP's storied line of high-efficiency spray booth filters. Each cube is designed to provide high holding capacity and an economical solution for a range of finishing applications. All Spra-Cube filters are constructed of multiple layers of RP's proprietary paper Paint Arrester media and synthetic backings to provide you the right product, every time.



RP ARRESTORS available in Roll, Pad or Cube.



RP ARRESTOR OVERVIEW

Description	Series	Paper	Poly	Qty. Used	1	2	3	4	5	6	7	8	9	10
Standard RP Paint Arrestors	3000	6	0	2	■	■	■	■	■	■				
Standard High Efficiency RP Paint Arrestors	3100	8	0	2	■	■	■	■	■	■	■	■		
Spra-Gard High Efficiency RP Paint Arrestors	3200	5	1L	1	■	■	■	■	■	■	■			
Spra-Gard High Efficiency RP Paint Arrestors	3300	5	1H	1	■	■	■	■	■	■	■			
Spra-Gard High Capacity High Efficiency RP Paint Arrestors	3400	8	1H	1	■	■	■	■	■	■	■	■	■	■
Standard RP Sacrificial Layer	3500	3	0	1	■	■	■							
Spra-Gard High Efficiency RP Paint Arrestors	3600	7	1L	1	■	■	■	■	■	■	■	■	■	■
Spra-Gard High Efficiency RP Paint Arrestors	3700	7	2 L/H	1	■	■	■	■	■	■	■	■	■	■
Spra-Cube SE Medium Efficiency High Holding Capacity	3912	5	1H	1	■	■	■	■	■	■	■	■	■	■
Spra-Cube HE High Efficiency High Holding Capacity	3932	7	1L	1	■	■	■	■	■	■	■	■	■	■
Spra-Cube UE Ultra Efficiency High Holding Capacity	3952	8	1H	1	■	■	■	■	■	■	■	■	■	■

■ = Paper Layer ■ = Poly Layer

RP PAINT ARRESTOR EFFICIENCY AND OVERSPRAY

Example is based on booth with 80 sq. ft. of Paint Arrestors, spraying paint at 1 lb./hour for 40 hours.

PAINT ARRESTOR EFFICIENCY	PENETRATION	AMOUNT OF PAINT REACHING PAINT ARRESTOR	AMOUNT OF PAINT COLLECTED BY PAINT ARRESTOR	AMOUNT OF PAINT PENETRATING PAINT ARRESTOR	TOTAL AMOUNT OF PAINT COLLECTED (8' X 10' BOOTH)	TOTAL AMOUNT OF PAINT PENETRATING INTO EXHAUST SYSTEM
98.0%	2.0%	0.50 lb./sq. ft. 226.8 grams/sq. ft.	0.49 lb./sq. ft. 222.3 grams/sq. ft.	0.01 lb./sq. ft. 4.5 grams/sq. ft.	39.2 lb.	0.8 lb. 363 grams
99%	1.0%	0.50 lb./sq. ft. 226.8 grams/sq. ft.	0.50 lb./sq. ft. 224.5 grams/sq. ft.	0.005 lb./sq. ft. 2.3 grams/sq. ft.	39.6 lb.	0.4 lb. 181 grams
99.5%	0.5%	0.50 lb./sq. ft. 226.8 grams/sq. ft.	0.50 lb./sq. ft. 225.7 grams/sq. ft.	0.0025 lb./sq. ft. 1.1 grams/sq. ft.	39.8 lb.	0.2 lb. 91 grams
99.9%	0.1%	0.50 lb./sq. ft. 226.8 grams/sq. ft.	0.50 lb./sq. ft. 226.6 g/sq. ft.	.0005 lb./sq. ft. 0.2 grams/sq. ft.	39.96 lb.	0.04 lb. 18 grams

The example in the above table illustrates the effect efficiency can have on the amount of paint collected on the PA and the amount that penetrates the PA.



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