

PAINT OVERSPRAY COLLECTION:  
Customized To  
*YOUR* Needs



by

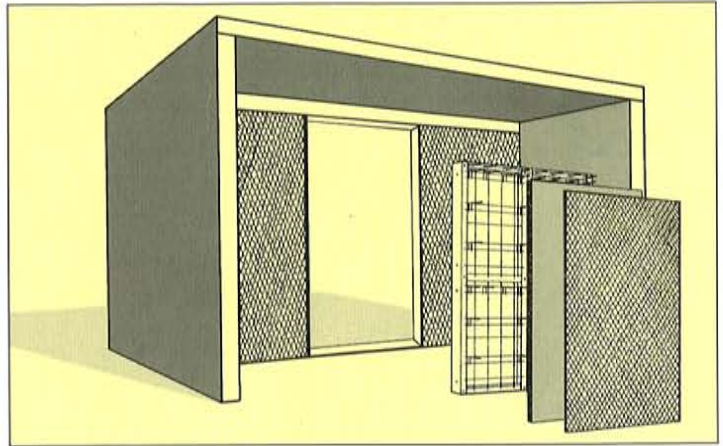
**IRP**® **Paint Arrestors**

## RP® Paint Arrestors:

an improved and expanded total *product* line, nationwide *distribution* and *on-site* design consultants create the most effective, least expensive overspray collection system for *your* operation.

RP® Paint Arrestors are disposable paint overspray collectors that efficiently trap paint solids before they reach the exhaust stack. These were the first dry filters specifically designed to control paint overspray.

Through the years, the RP family of standard, high efficiency and high capacity Paint Arrestors has proven to be a cost effective, efficient way to handle virtually every overspray requirement. Fabricated of slit and expanded paper, or slit and expanded paper with polyester, the multiple layers of RP Paint Arrestors are assembled so the intake side has larger openings than the exhaust side. This provides depth loading for maximum service life.



**ROLL BOOTH DESIGN:** The industry trend is toward roll booth designs, especially for high volume operations. This is due to the reduced labor involved in changing the wide strips of roll material rather than smaller, modular pads. Rolls are available in standard 45" widths and a number of standard lengths. The booth is easily assembled using sections of 3/16" steel gridwork, each supported by a steel frame. Perpendicular support rods hold the rolls, and any bypass space is covered with sheet metal. Changeover is quickly accomplished by merely replacing each roll.

Every RP Paint Arrestor including the prefilter series has a new, patented face sheet design. It produces a unique airflow pattern which traps more overspray using less material than previously.

You save by:

- reducing the volume of stored material,
- reducing the number of change-outs,
- reducing down time, and
- reducing the amount of material to dispose of.

RP Booth Paper is also available to help maintain a clean working environment in the paint booth. The 300' Kraft rolls are available in various widths to accommodate virtually any size booth.

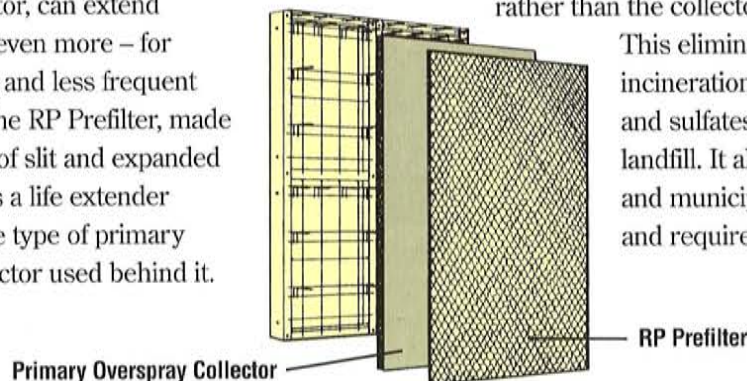
As an additional product improvement, RP Paint Arrestors and booth paper have followed the recommendations of the industry consensus N.F.P.A. Standard No.33, and the currently practiced policies of the Occupational Safety & Health Administration (OSHA) by removing so-called flame-retardant salts. This was done because it is the paint overspray rather than the collector that is flammable.

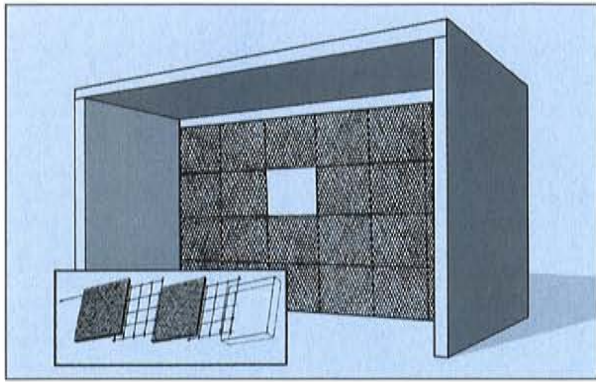
This eliminates toxic gases during incineration as well as phosphates and sulfates leaching out of the landfill. It also helps you meet state and municipal government codes and requirements.



**PRODUCT** Now, our total product line has again been expanded and improved: new designs in every RP Paint Arrestor require less storage space and less material to dispose of, while providing the same outstanding performance as always.

Our newest product, the Prefilter 3500 Series RP Paint Arrestor, can extend product usage even more – for greater service and less frequent change-outs. The RP Prefilter, made of three layers of slit and expanded paper, becomes a life extender *regardless* of the type of primary overspray collector used behind it.





**MODULAR BOOTH DESIGN FOR PADS:** An RP Paint Arrestor bank is easily assembled by riveting together the number of holding frames required for a specific installation. Any bypass space is blanked off with sheet metal. A downstream Snap-In Grid is placed in each holding frame. An RP Paint Arrestor pad is then placed against the installed grid. Another grid is positioned and a second pad is installed to complete the installation.

**DISTRIBUTION** To reduce your need for on-site storage, a nationwide network of high quality distributors assures that RP Paint Arrestors and accessories are always available. Distributor inventory also includes the practical hardware needed to make the *simple conversion* to the RP Paint Arrestor system using either pad or roll applications, or to convert from pads to the more economical rolls.

**ON-SITE ASSISTANCE** You will *save* by converting to the RP Paint Arrestor system from whatever you may be using now – fiberglass, cardboard, pleated, polyester, styrofoam, or water wash. Your distributor along with a qualified representative

from Research Products, the makers of RP Paint Arrestors, will work with you at your location to test, evaluate, and provide the field engineering needed to help you convert to the RP system. This process will create the most effective, least expensive system of paint overspray collection for your operation.

Any paint spray booth in use today can be easily converted to incorporate RP Paint Arrestors. The two major components (booth shell and exhaust fan) are already there and a like-new booth can be created with a minimum investment. If there are baffles or no collection system in the booth, hardware for rolls or a bank of modules can be easily erected and positioned ahead of the exhaust fan.

### Product Evaluation

Any overspray collection system should be evaluated and selected based on three performance criteria:

- Optimum *efficiency* necessary to reduce booth maintenance to the lowest practical level while minimizing contamination of air, soil, water, and structures from overspray exhaust.
- Minimum airflow *resistance* necessary to meet operational and environmental requirements while reducing the health and product quality concerns caused by booth “blow back” or “fogging”.
- Maximum *service life* necessary to provide adequate overspray holding capacity while reducing the labor and materials involved with more frequent change-outs.

The RP Paint Arrestor product line delivers all three as shown in the Product Overview below.

## PRODUCT OVERVIEW

### 3000 Series Standard RP Paint Arrestors

This 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 a degradable, economical solution to your overspray needs. Available in roll or modular pad form, its recommended usage consists of two pad or roll layers in tandem.

### 3100 Series Standard High Efficiency RP Paint Arrestors

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 Spra-Gard® High Efficiency RP Paint Arrestors

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 and its recommended use is two in tandem.

### 3300 Series Spra-Gard® High Efficiency RP Paint Arrestors

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 Spra-Gard® High Capacity High Efficiency RP Paint Arrestors

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 downtime and increasing the time interval between changes.

### 3500 Series Prefilter RP Paint Arrestors

Designed as a life extender for any primary overspray collector, this Prefilter Arrestor reduces the amount of paint overspray reaching the more expensive collector. It will reduce costs, increase the service life of the primary collector and increase the flexibility of your spraying operation. It can be used in any type of sprayed coating application.

## PAINT ARRESTOR EFFICIENCY/OVERSPRAY PENETRATION

To assure clean exhaust air, Paint Arrestor selection should be influenced by the volume of paint to be sprayed. Larger volumes require a Paint Arrestor of higher efficiency (*see chart at right*). The chart below shows Paint Arrestor efficiency/overspray penetration based on 1,000 lbs. of overspray solids at the Paint Arrestor.

| Paint Arrestor Efficiency | Overspray Penetration | Overspray Released To The Exhaust Air |
|---------------------------|-----------------------|---------------------------------------|
| 90%                       | 10%                   | 100 lbs.                              |
| 92%                       | 8%                    | 80 lbs.                               |
| 94%                       | 6%                    | 60 lbs.                               |
| 96%                       | 4%                    | 40 lbs.                               |
| 98%                       | 2%                    | 20 lbs.                               |
| 99%                       | 1%                    | 10 lbs.                               |
| 99.5%                     | 0.5%                  | 5 lbs.                                |
| 99.9%                     | 0.1%                  | 1 lb.                                 |

**Example:** Booth maintenance would be required ten times more often if the efficiency is 99% versus 99.9%. Both higher efficiency and cleaner exhaust air reduce costs.

**NOTE:** There are minimum efficiency levels required for many situations which we can help determine in a site evaluation at your specific operation. Maximum efficiency is very important when a volatile organic compound (VOC) abatement system such as a thermal oxidizer is used. For best performance, the abatement system must remain clean.

## PAINT ARRESTOR PERFORMANCE

| Product  | Velocity (fpm) | Resistance (in. w.g.) | Average Efficiency Range  |
|--|----------------|-----------------------|---|
| 3000 Series Standard RP Paint Arrestors                                | 100            | 0.020                 | 96.5 to 97.5% high solids bake enamel<br>93.0 to 94.0% waterborne bake enamel<br><br>Tested using two pads in tandem                          |
|  | 200            | 0.060                 |   |
|  | 300            | 0.120                 |   |
| 3100 Series Standard High Capacity RP Paint Arrestors                  | 100            | 0.020                 | 94.0 to 96.0% high solids bake enamel<br>91.5 to 92.5% waterborne bake enamel<br><br>Tested using two pads in tandem                          |
|  | 200            | 0.050                 |   |
|  | 300            | 0.100                 |   |
| 3200 Series Spra-Gard High Efficiency RP Paint Arrestors               | 100            | 0.055                 | 98.5 to 99.5% high solids bake enamel<br>97.0 to 98.0% waterborne bake enamel<br>94.0 to 95.0% lacquer<br><br>Tested using two pads in tandem |
|  | 200            | 0.125                 |   |
|  | 300            | 0.225                 |   |
| 3300 Series Spra-Gard High Efficiency RP Paint Arrestors               | 100            | 0.055                 | 99.5 to 99.9% high solids bake enamel<br>98.5 to 99.2% waterborne bake enamel<br>95.0 to 96.0% lacquer<br><br>Tested using single pad         |
|  | 200            | 0.136                 |   |
|  | 300            | 0.256                 |   |
| 3400 Series Spra-Gard High Capacity High Efficiency RP Paint Arrestors | 100            | 0.065                 | 99.5 to 99.9% high solids bake enamel<br><br>Tested using single pad  |
|  | 200            | 0.153                 |   |
|  | 300            | 0.283                 |   |

Performance information shown was obtained using equipment similar to that incorporated by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) in evaluating performance of air cleaning media. Details regarding equipment testing procedure and test results are available by writing for Reprint No. 4259.

## PAINT ARRESTOR PRODUCT SPECIFICATIONS

### PADS, ROLLS, HARDWARE, ACCESSORIES, AND BOOTH PAPER

| Stock No. | Description                            | Qty./Pkg. | Stock No. | Description                               | Qty./Pkg. | Stock No. | Description                               | Qty./Pkg. |
|-----------|--|-----------|-----------|---|-----------|-----------|---|-----------|
| 3031      | 20" x 25" Paint Arrestor               | 70/Carton | 3252      | 7' x 45" Spra-Gard Paint Arrestor         | 4/Bag     | 941       | 20" x 25" x 2-7/8" Holding Frame          | 6/Carton  |
| 3032      | 20" x 20" Paint Arrestor               | 70/Carton | 3253      | 8' x 45" Spra-Gard Paint Arrestor         | 4/Bag     | 942       | 20" x 20" x 2-7/8" Holding Frame          | 8/Carton  |
| 3020      | 40" x 22 1/2" Paint Arrestor           | 2/Bag     | 3266      | 30" x 45" Spra-Gard Paint Arrestor        | 1/Bag     | 1010      | 20" Single Wire Rod                       | 25/Tube   |
| 3039      | 40" x 45" Paint Arrestor               | 1/Bag     | 3331      | 20" x 25" Spra-Gard Paint Arrestor        | 60/Carton | 1025      | 25" Single Wire Rod                       | 10/Tube   |
| 3051      | 6' x 45" Paint Arrestor                | 6/Bag     | 3332      | 20" x 20" Spra-Gard Paint Arrestor        | 60/Carton | 1011      | 20" x 25" Snap-in Grid                    | 40/Carton |
| 3052      | 7' x 45" Paint Arrestor                | 5/Bag     | 3351      | 6' x 45" Spra-Gard Paint Arrestor         | 5/Bag     | 1012      | 20" x 20" Snap-in Grid                    | 40/Carton |
| 3053      | 8' x 45" Paint Arrestor                | 4/Bag     | 3352      | 7' x 45" Spra-Gard Paint Arrestor         | 4/Bag     | 1017      | 20" x 20" Conversion Grid                 | 10/Carton |
| 3131      | 20" x 25" High Capacity Paint Arrestor | 30/Carton | 3353      | 8' x 45" Spra-Gard Paint Arrestor         | 4/Bag     | 1018      | 20" x 25" Conversion Grid                 | 10/Carton |
| 3132      | 20" x 20" High Capacity Paint Arrestor | 30/Carton | 3366      | 30" x 45" Spra-Gard Paint Arrestor        | 1/Bag     | 1019      | 20" x 36" Conversion Grid                 | 10/Carton |
| 3135      | 20" x 45" High Capacity Paint Arrestor | 1/Bag     | 3451      | 6' x 45" High Capacity / High Efficiency  | 4/Bag     | 1030      | Spra-Pak® 20" W x 72" H (including grids) | 1/Carton  |
| 3151      | 6' x 45" High Capacity Paint Arrestor  | 4/Bag     | 3453      | 8' x 45" High Capacity / High Efficiency  | 3/Bag     | 1015      | Spra-Pak® Grid                            | 4/Carton  |
| 3152      | 7' x 45" High Capacity Paint Arrestor  | 3/Bag     | 3466      | 30" x 45" High Capacity / High Efficiency | 1/Bag     | 1016      | Spra-Pak® Upper Support Grid              | 8/Carton  |
| 3153      | 8' x 45" High Capacity Paint Arrestor  | 3/Bag     | 3551      | 6' x 45" Prefilter Paint Arrestor         | 8/Bag     | 3041      | 36" x 300' Booth Floor Paper (Kraft)      |           |
| 3231      | 20" x 25" Spra-Gard Paint Arrestor     | 60/Carton | 3553      | 8' x 45" Prefilter Paint Arrestor         | 6/Bag     | 3042      | 42" x 300' Booth Floor Paper (Kraft)      |           |
| 3232      | 20" x 20" Spra-Gard Paint Arrestor     | 60/Carton | 3599      | 100" x 45" Prefilter Paint Arrestor       | 1/Bag     | 3043      | 60" x 300' Booth Floor Paper (Kraft)      |           |
| 3251      | 6' x 45" Spra-Gard Paint Arrestor      | 5/Bag     |           |   |           | 3044      | 72" x 300' Booth Floor Paper (Kraft)      |           |

45" product is designed for overlap and positive seal at vertical seams. Custom sizes are available. Contact manufacturer for details.



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