

## **FILTER SELECTION DATA SHEET**

# **SERVA-cell 65/85/95**

**Extended surface ASHRAE rated filter**

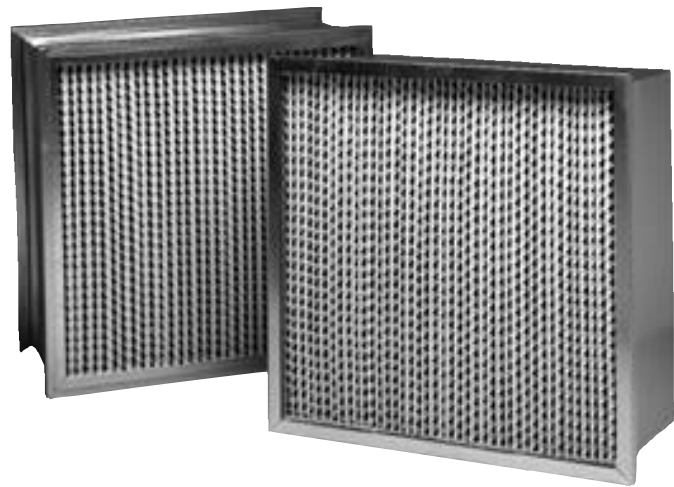
# **Purolator Filtration Systems**

### **Introduction**

- Purolator's SERVA-cell is a high efficiency, extended surface, ASHRAE rated air filter.
- Its box filter construction eliminates the need for retainers and special external wire media supports.
- A high surface area to depth ratio provides the maximum amount of effective filter media in areas of minimum in-line duct space.
- Applications: For conditions such as high humidity, turbulent airflow, intermittent water exposure, and elevated operating temperatures.
- Average efficiency range: 65-95%  
Average arrestance: 97-99%
- Recommended airflow rate: 500 FPM (625 FPM Max.)
- Available in seven filter face sizes (see chart on back), and two depth sizes—6", 12".

### **Media and Support**

- Media: Continuous sheet of non-combustible, waterproof, microfiberglass.
- Pleat configuration: Radi-edge configuration promotes maximum exposure of media surface area to airflow.
- Pleat support: Pleated around radi-edge, corrugated aluminum separators. All filter packs to be woven on Purolator's automatic weaving machine.
- Media area/square foot: See Performance data chart on back side.



### **Construction features**

- Frame: All metal, corrosion resistant, galvanized steel casing—available with a single or double galvanized steel header.
- The media pack is bonded and secured to the four inner surfaces of the frame with a non-toxic adhesive.
- Available with a single-channel unitized header or double header option. Also available in a full box exact size.
- U.L. Classification: Class 1 approved and listed.
- Tested in accordance with U.L. Standard 900 and ASHRAE 52.1-1992.
- Recommended operating temperature: 200°F.

**Purolator**  
Products Air Filtration Company

## Suggested product specifications

- The filter shall be the SERVA-cell as manufactured by Purolator Products Air Filtration Company.
- Air filters shall be the rigid-cell air filter type engineered to provide medium and high efficiency filtration combined with a prolonged life cycle.
- The filter media shall consist of a continuous sheet of non-combustible, waterproof, microfiberglass media pleated around radi-edge, corrugated aluminum separators. These separators shall fully support the media while exposing its maximum surface area to airflow.
- The radial configuration shall keep the separators from puncturing the media.
- When tested in accordance with ASHRAE Test Std. 52.1-1992 the filter media shall have an average efficiency of 65-95% and an arrestance of not less than 97-99%.
- The filter pack shall be enclosed in an all-metal, corrosion-resistant, galvanized steel casing protecting the filter from shipping damage and allowing it to withstand demanding service conditions.
- The pack shall be bonded to four inner surfaces of the metal frame to secure it firmly in place and prevent air bypass.
- The enclosure frame shall be constructed of corrosion resistant galvanized steel in such a manner as to produce a rigid durable filter.
- To eliminate air bypass, each 24 x 24 single header model frame shall be roll formed continuously from the enclosure frame material.
- Filters shall be listed and rated by Underwriters Laboratories, Inc. as Class I.

## Performance data: SERVA-cell 65/85/95

| Series       | Nominal size<br>W x H x D | Actual Size<br>W x H x D* | SERVA-cell<br>Model<br>number | Rated<br>capacity<br>CFM | Initial<br>resistance<br>inches w.g. | Media<br>area/<br>Sq. ft. | Filter<br>weight<br>lbs. |      |
|--------------|---------------------------|---------------------------|-------------------------------|--------------------------|--------------------------------------|---------------------------|--------------------------|------|
| 65           | 24 x 24 x 12              | 23-5/16 x 23-5/16         | SL65-4412                     | 2000                     | .45                                  | 105                       | 18.0                     |      |
|              | 20 x 25 x 12              | 19-5/16 x 24-5/16         | SL65-0512                     | 1750                     | .45                                  | 90                        | 17.0                     |      |
|              | 20 x 24 x 12              | 19-5/16 x 23-5/16         | SL65-0412                     | 1650                     | .45                                  | 86                        | 16.5                     |      |
|              | 20 x 20 x 12              | 19-5/16 x 19-5/16         | SL65-0012                     | 1400                     | .45                                  | 70                        | 13.5                     |      |
|              | 16 x 25 x 12              | 15-5/16 x 24-5/16         | SL65-6512                     | 1400                     | .45                                  | 70                        | 13.5                     |      |
|              | 16 x 20 x 12              | 15-5/16 x 19-5/16         | SL65-6012                     | 1100                     | .45                                  | 56                        | 11.0                     |      |
|              | 12 x 24 x 12              | 11-5/16 x 23-5/16         | SL65-2412                     | 1000                     | .45                                  | 48                        | 20.0                     |      |
|              | 24 x 24 x 6               | 23-5/16 x 23-5/16         | SL65-4406                     | 1000                     | .15                                  | 55                        | 11.5                     |      |
|              | 20 x 25 x 6               | 19-5/16 x 24-5/16         | SL65-0506                     | 875                      | .15                                  | 47                        | 10.5                     |      |
|              | 20 x 24 x 6               | 19-5/16 x 23-5/16         | SL65-0406                     | 825                      | .15                                  | 45                        | 10.0                     |      |
|              | 20 x 20 x 6               | 19-5/16 x 19-5/16         | SL65-0006                     | 700                      | .15                                  | 37                        | 8.0                      |      |
|              | 16 x 25 x 6               | 15-5/16 x 24-5/16         | SL65-6506                     | 700                      | .15                                  | 37                        | 8.0                      |      |
|              | 16 x 20 x 6               | 15-5/16 x 19-5/16         | SL65-6006                     | 550                      | .15                                  | 29                        | 6.5                      |      |
|              | 12 x 24 x 6               | 11-5/16 x 23-5/16         | SL65-2406                     | 500                      | .15                                  | 25                        | 13.0                     |      |
|              | 85                        | 24 x 24 x 12              | 23-5/16 x 23-5/16             | SL85-4412                | 2000                                 | .60                       | 105                      | 18.0 |
|              |                           | 20 x 25 x 12              | 19-5/16 x 24-5/16             | SL85-0512                | 1750                                 | .60                       | 90                       | 17.0 |
|              |                           | 20 x 24 x 12              | 19-5/16 x 23-5/16             | SL85-0412                | 1650                                 | .60                       | 86                       | 16.5 |
|              |                           | 20 x 20 x 12              | 19-5/16 x 19-5/16             | SL85-0012                | 1400                                 | .60                       | 70                       | 13.5 |
| 16 x 25 x 12 |                           | 15-5/16 x 24-5/16         | SL85-6512                     | 1400                     | .60                                  | 70                        | 13.5                     |      |
| 16 x 20 x 12 |                           | 15-5/16 x 19-5/16         | SL85-6012                     | 1100                     | .60                                  | 56                        | 11.0                     |      |
| 12 x 24 x 12 |                           | 11-5/16 x 23-5/16         | SL85-2412                     | 1000                     | .60                                  | 48                        | 20.0                     |      |
| 24 x 24 x 6  |                           | 23-5/16 x 23-5/16         | SL85-4406                     | 1000                     | .30                                  | 55                        | 11.5                     |      |
| 20 x 25 x 6  |                           | 19-5/16 x 24-5/16         | SL85-0506                     | 875                      | .30                                  | 47                        | 10.5                     |      |
| 20 x 24 x 6  |                           | 19-5/16 x 23-5/16         | SL85-0406                     | 825                      | .30                                  | 45                        | 10.0                     |      |
| 20 x 20 x 6  |                           | 19-5/16 x 19-5/16         | SL85-0006                     | 700                      | .30                                  | 37                        | 8.0                      |      |
| 16 x 25 x 6  |                           | 15-5/16 x 24-5/16         | SL85-6506                     | 700                      | .30                                  | 37                        | 8.0                      |      |
| 16 x 20 x 6  |                           | 15-5/16 x 19-5/16         | SL85-6006                     | 550                      | .30                                  | 29                        | 6.5                      |      |
| 12 x 24 x 6  |                           | 11-5/16 x 23-5/16         | SL85-2406                     | 500                      | .30                                  | 25                        | 13.0                     |      |
| 95           |                           | 24 x 24 x 12              | 23-5/16 x 23-5/16             | SL95-4412                | 2000                                 | .65                       | 125                      | 22.0 |
|              |                           | 20 x 25 x 12              | 19-5/16 x 24-5/16             | SL95-0512                | 1750                                 | .65                       | 108                      | 20.9 |
|              |                           | 20 x 24 x 12              | 19-5/16 x 23-5/16             | SL95-0412                | 1650                                 | .65                       | 103                      | 20.9 |
|              |                           | 20 x 20 x 12              | 19-5/16 x 19-5/16             | SL95-0012                | 1400                                 | .65                       | 84                       | 19.8 |
|              | 16 x 25 x 12              | 15-5/16 x 24-5/16         | SL95-6512                     | 1400                     | .65                                  | 84                        | 19.8                     |      |
|              | 16 x 20 x 12              | 15-5/16 x 19-5/16         | SL95-6012                     | 1100                     | .65                                  | 66                        | 17.6                     |      |
|              | 12 x 24 x 12              | 11-5/16 x 23-5/16         | SL95-2412                     | 1000                     | .65                                  | 58                        | 20.0                     |      |
|              | 24 x 24 x 6               | 23-5/16 x 23-5/16         | SL95-4406                     | 1000                     | .35                                  | 64                        | 12.6                     |      |
|              | 20 x 25 x 6               | 19-5/16 x 24-5/16         | SL95-0506                     | 875                      | .35                                  | 55                        | 11.6                     |      |
|              | 20 x 24 x 6               | 19-5/16 x 23-5/16         | SL95-0406                     | 825                      | .35                                  | 53                        | 11.6                     |      |
|              | 20 x 20 x 6               | 19-5/16 x 19-5/16         | SL95-0006                     | 700                      | .35                                  | 43                        | 11.0                     |      |
|              | 16 x 25 x 6               | 15-5/16 x 24-5/16         | SL95-6506                     | 700                      | .35                                  | 43                        | 11.0                     |      |
|              | 16 x 20 x 6               | 15-5/16 x 19-5/16         | SL95-6006                     | 550                      | .35                                  | 34                        | 10.5                     |      |
|              | 12 x 24 x 6               | 11-5/16 x 23-5/16         | SL95-2406                     | 500                      | .35                                  | 30                        | 13.0                     |      |

\* Actual Depth Dimension: Nominal depth 12"= Actual depth 11 1/2", Nominal depth 6"= Actual depth 5 7/8"



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