

## **FILTER SELECTION DATA SHEET**

# **SERVA-CELL® Full Box**

**Extended surface ASHRAE rated filter**

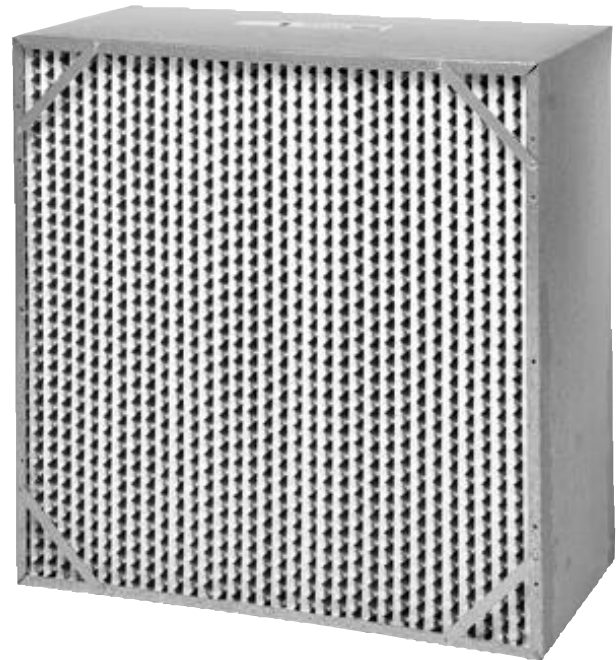
# **Purolator Filtration Systems**

### **Introduction**

- Purolator's SERVA-CELL Full Box is a high efficiency, extended surface, ASHRAE rated air filter. Its Full Box design allows for increased surface area when compared to headered models.
- Its full 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 200°F
- Average ASHRAE rated 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, water-proof, 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 our automatic weaving machine.
- Media area/square foot: See Performance data chart on back side.



### **Construction features**

- Frame: All metal, corrosion resistant, galvanized steel casing.
- The media pack is bonded and secured to the four inner surfaces of the frame with a non-toxic adhesive.
- 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 Full Box 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.
- Filters shall be listed and rated by Underwriters Laboratories, Inc. as Class I.

## Performance data: SERVA-CELL Full Box

| 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 <sup>1</sup> | 23-3/8 x 23-3/8 x 11-3/8  | SLB65-4412                    | 2000                     | .45                                  | 111                       | 19.0                     |      |
|                           | 20 x 25 x 12              | 19-3/8 x 24-3/8 x 11-3/8  | SLB65-0512                    | 1750                     | .45                                  | 95                        | 18.0                     |      |
|                           | 20 x 24 x 12              | 19-3/8 x 23-3/8 x 11-3/8  | SLB65-0412                    | 1650                     | .45                                  | 91                        | 17.5                     |      |
|                           | 20 x 20 x 12              | 19-3/8 x 19-3/8 x 11-3/8  | SLB65-0012                    | 1400                     | .45                                  | 74                        | 14                       |      |
|                           | 16 x 25 x 12              | 15-3/8 x 24-3/8 x 11-3/8  | SLB65-6512                    | 1400                     | .45                                  | 74                        | 14                       |      |
|                           | 16 x 20 x 12              | 15-3/8 x 19-3/8 x 11-3/8  | SLB65-6012                    | 1100                     | .45                                  | 59                        | 11.5                     |      |
|                           | 12 x 24 x 12 <sup>1</sup> | 11-3/8 x 23-3/8 x 11-3/8  | SLB65-2406                    | 1000                     | .45                                  | 57                        | 21.2                     |      |
|                           | 24 x 24 x 6 <sup>1</sup>  | 23-3/8 x 23-3/8 x 5-3/4   | SLB65-4406                    | 1000                     | .15                                  | 58                        | 12                       |      |
|                           | 20 x 25 x 6               | 19-3/8 x 24-3/8 x 5-3/4   | SLB65-0506                    | 875                      | .15                                  | 50                        | 11                       |      |
|                           | 20 x 24 x 6               | 19-3/8 x 23-3/8 x 5-3/4   | SLB65-0406                    | 825                      | .15                                  | 48                        | 10.5                     |      |
|                           | 20 x 20 x 6               | 19-3/8 x 19-3/8 x 5-3/4   | SLB65-0006                    | 700                      | .15                                  | 39                        | 8.5                      |      |
|                           | 16 x 25 x 6               | 15-3/8 x 24-3/8 x 5-3/4   | SLB65-6506                    | 700                      | .15                                  | 39                        | 8.5                      |      |
|                           | 16 x 20 x 6               | 15-3/8 x 19-3/8 x 5-3/4   | SLB65-6006                    | 550                      | .15                                  | 31                        | 9.0                      |      |
|                           | 12 x 20 x 6 <sup>1</sup>  | 11-3/8 x 23-3/8 x 5-3/4   | SLB65-2406                    | 500                      | .15                                  | 28                        | 13.5                     |      |
|                           | 85                        | 24 x 24 x 12 <sup>1</sup> | 23-3/8 x 23-3/8 x 11-3/8      | SLB85-4412               | 2000                                 | .60                       | 111                      | 19.0 |
|                           |                           | 20 x 25 x 12              | 19-3/8 x 24-3/8 x 11-3/8      | SLB85-0512               | 1750                                 | .60                       | 95                       | 18.0 |
|                           |                           | 20 x 24 x 12              | 19-3/8 x 23-3/8 x 11-3/8      | SLB85-0412               | 1650                                 | .60                       | 91                       | 17.5 |
|                           |                           | 20 x 20 x 12              | 19-3/8 x 19-3/8 x 11-3/8      | SLB85-0012               | 1400                                 | .60                       | 74                       | 14   |
| 16 x 25 x 12              |                           | 15-3/8 x 24-3/8 x 11-3/8  | SLB85-6512                    | 1400                     | .60                                  | 74                        | 14                       |      |
| 16 x 20 x 12              |                           | 15-3/8 x 19-3/8 x 11-3/8  | SLB85-6012                    | 1100                     | .60                                  | 59                        | 11.5                     |      |
| 12 x 24 x 12 <sup>1</sup> |                           | 11-3/8 x 23-3/8 x 11-3/8  | SLB85-2406                    | 1000                     | .60                                  | 51                        | 21.2                     |      |
| 24 x 24 x 6 <sup>1</sup>  |                           | 23-3/8 x 23-3/8 x 5-3/4   | SLB85-4406                    | 1000                     | .30                                  | 58                        | 12                       |      |
| 20 x 25 x 6               |                           | 19-3/8 x 24-3/8 x 5-3/4   | SLB85-0506                    | 875                      | .30                                  | 50                        | 11                       |      |
| 20 x 24 x 6               |                           | 19-3/8 x 23-3/8 x 5-3/4   | SLB85-0406                    | 825                      | .30                                  | 48                        | 10.5                     |      |
| 20 x 20 x 6               |                           | 19-3/8 x 19-3/8 x 5-3/4   | SLB85-0006                    | 700                      | .30                                  | 39                        | 8.5                      |      |
| 16 x 25 x 6               |                           | 15-3/8 x 24-3/8 x 5-3/4   | SLB85-6506                    | 700                      | .30                                  | 39                        | 8.5                      |      |
| 16 x 20 x 6               |                           | 15-3/8 x 19-3/8 x 5-3/4   | SLB85-6006                    | 550                      | .30                                  | 31                        | 9.0                      |      |
| 12 x 20 x 6 <sup>1</sup>  |                           | 11-3/8 x 23-3/8 x 5-3/4   | SLB85-2406                    | 500                      | .30                                  | 26                        | 13.5                     |      |
| 95                        |                           | 24 x 24 x 12 <sup>1</sup> | 23-3/8 x 23-3/8 x 11-3/8      | SLB95-4412               | 2000                                 | .65                       | 132                      | 23.3 |
|                           |                           | 20 x 25 x 12              | 19-3/8 x 24-3/8 x 11-3/8      | SLB95-0512               | 1750                                 | .65                       | 114                      | 22   |
|                           |                           | 20 x 24 x 12              | 19-3/8 x 23-3/8 x 11-3/8      | SLB95-0412               | 1650                                 | .65                       | 109                      | 22   |
|                           |                           | 20 x 20 x 12              | 19-3/8 x 19-3/8 x 11-3/8      | SLB95-0012               | 1400                                 | .65                       | 89                       | 21   |
|                           | 16 x 25 x 12              | 15-3/8 x 24-3/8 x 11-3/8  | SLB95-6512                    | 1400                     | .65                                  | 89                        | 21                       |      |
|                           | 16 x 20 x 12              | 15-3/8 x 19-3/8 x 11-3/8  | SLB95-6012                    | 1100                     | .65                                  | 70                        | 18.6                     |      |
|                           | 12 x 24 x 12 <sup>1</sup> | 11-3/8 x 23-3/8 x 11-3/8  | SLB95-2406                    | 1000                     | .65                                  | 61                        | 21                       |      |
|                           | 24 x 24 x 6 <sup>1</sup>  | 23-3/8 x 23-3/8 x 5-3/4   | SLB95-4406                    | 1000                     | .35                                  | 68                        | 13.3                     |      |
|                           | 20 x 25 x 6               | 19-3/8 x 24-3/8 x 5-3/4   | SLB95-0506                    | 875                      | .35                                  | 58                        | 12.3                     |      |
|                           | 20 x 24 x 6               | 19-3/8 x 23-3/8 x 5-3/4   | SLB95-0406                    | 825                      | .35                                  | 56                        | 12.3                     |      |
|                           | 20 x 20 x 6               | 19-3/8 x 19-3/8 x 5-3/4   | SLB95-0006                    | 700                      | .35                                  | 45                        | 11.6                     |      |
|                           | 16 x 25 x 6               | 15-3/8 x 24-3/8 x 5-3/4   | SLB95-6506                    | 700                      | .35                                  | 45                        | 11.6                     |      |
|                           | 16 x 20 x 6               | 15-3/8 x 19-3/8 x 5-3/4   | SLB95-6006                    | 550                      | .35                                  | 36                        | 11                       |      |
|                           | 12 x 20 x 6 <sup>1</sup>  | 11-3/8 x 23-3/8 x 5-3/4   | SLB95-2406                    | 500                      | .35                                  | 32                        | 13.8                     |      |

<sup>1</sup> For full nominal size configuration, note exact size dimensions. Refer to list price schedule for exact size part number.



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