



# SERVA-CELL<sup>®</sup> Full Box

*Extended Surface ASHRAE-Rated Filter*

## 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  $\leq 350^{\circ}\text{F}$ .
- Average efficiency range: 65-95% MERV 11-14  
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 an automatic weaving machine.
- Media area/square foot: See Performance data chart on back.

## Construction Features

- Frame: All metal, corrosion resistant, aluminized 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:  $\leq 200^{\circ}\text{F}$ .

## Suggested Product Specifications

1. The filter shall be the SERVA-cell™ Full Box as manufactured by Purolator Air Filtration.
2. Air filters shall be the rigid-cell air filter type engineered to provide medium and high efficiency filtration combined with a prolonged life cycle.



3. 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.
4. The radial configuration shall keep the separators from puncturing the media.
5. When tested in accordance with ASHRAE Test Std. 52.1-1992 the filter media shall have an average efficiency of 65-95% MERV 11-14 and an arrestance of not less than 97-99%.
6. The filter pack shall be enclosed in an all-metal, corrosion-resistant, aluminized steel casing protecting the filter from shipping damage and allowing it to withstand demanding service conditions.
7. The pack shall be secured to four inner surfaces of the metal frame to prevent air bypass.
8. The enclosure frame shall be constructed of corrosion resistant aluminized steel in such a manner as to produce a rigid durable filter.
9. Filters shall be listed and rated by Underwriters Laboratories, Inc. as Class I.

# SERVA-CELL® Full Box

Extended Surface ASHRAE-Rated Filter

## 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. |      |
|---------------------------|---------------------------|--|--|--------------------------|--------------------------------------|---------------------------|--------------------------|------|
| <b>65</b><br>MERV 11      | 24 x 24 x 12 <sup>1</sup> | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-4412   | 2000                     | .40                                  | 142                       | 19.0                     |      |
|                           | 20 x 25 x 12              | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-0512   | 1750                     | .40                                  | 124                       | 18.0                     |      |
|                           | 20 x 24 x 12              | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-0412   | 1650                     | .40                                  | 119                       | 17.5                     |      |
|                           | 20 x 20 x 12              | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-0012   | 1400                     | .40                                  | 99                        | 14                       |      |
|                           | 16 x 25 x 12              | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-6512   | 1400                     | .40                                  | 97                        | 14                       |      |
|                           | 16 x 20 x 12              | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-6012   | 1100                     | .40                                  | 77                        | 11.5                     |      |
|                           | 12 x 24 x 12 <sup>1</sup> | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB65-2412   | 1000                     | .40                                  | 70                        | 21.2                     |      |
|                           | 24 x 24 x 6 <sup>1</sup>  | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-4406   | 1000                     | .20                                  | 64                        | 12                       |      |
|                           | 20 x 25 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-0506   | 875                      | .20                                  | 56                        | 11                       |      |
|                           | 20 x 24 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-0406   | 825                      | .20                                  | 54                        | 10.5                     |      |
|                           | 20 x 20 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-0006   | 700                      | .20                                  | 45                        | 8.5                      |      |
|                           | 16 x 25 x 6               | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-6506   | 700                      | .20                                  | 44                        | 8.5                      |      |
|                           | 16 x 20 x 6               | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-6006   | 550                      | .20                                  | 35                        | 9.0                      |      |
|                           | 12 x 24 x 6 <sup>1</sup>  | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB65-2406   | 500                      | .20                                  | 31                        | 13.5                     |      |
|                           | <b>85</b><br>MERV 13      | 24 x 24 x 12 <sup>1</sup>  | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-4412               | 2000                                 | .55                       | 142                      | 19.0 |
|                           |                           | 20 x 25 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-0512               | 1750                                 | .55                       | 124                      | 18.0 |
|                           |                           | 20 x 24 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-0412               | 1650                                 | .55                       | 119                      | 17.5 |
|                           |                           | 20 x 20 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-0012               | 1400                                 | .55                       | 99                       | 14   |
| 16 x 25 x 12              |                           | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-6512   | 1400                     | .55                                  | 97                        | 14                       |      |
| 16 x 20 x 12              |                           | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-6012   | 1100                     | .55                                  | 77                        | 11.5                     |      |
| 12 x 24 x 12 <sup>1</sup> |                           | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB85-2412   | 1000                     | .55                                  | 70                        | 21.2                     |      |
| 24 x 24 x 6 <sup>1</sup>  |                           | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-4406   | 1000                     | .35                                  | 64                        | 12                       |      |
| 20 x 25 x 6               |                           | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-0506   | 875                      | .35                                  | 56                        | 11                       |      |
| 20 x 24 x 6               |                           | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-0406   | 825                      | .35                                  | 54                        | 10.5                     |      |
| 20 x 20 x 6               |                           | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-0006   | 700                      | .35                                  | 45                        | 8.5                      |      |
| 16 x 25 x 6               |                           | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-6506   | 700                      | .35                                  | 44                        | 8.5                      |      |
| 16 x 20 x 6               |                           | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-6006   | 550                      | .35                                  | 35                        | 9.0                      |      |
| 12 x 24 x 6 <sup>1</sup>  |                           | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB85-2406   | 500                      | .35                                  | 31                        | 13.5                     |      |
| <b>95</b><br>MERV 14      |                           | 24 x 24 x 12 <sup>1</sup>  | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-4412               | 2000                                 | .65                       | 142                      | 23.3 |
|                           |                           | 20 x 25 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-0512               | 1750                                 | .65                       | 124                      | 22   |
|                           |                           | 20 x 24 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-0412               | 1650                                 | .65                       | 119                      | 22   |
|                           |                           | 20 x 20 x 12   | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-0012               | 1400                                 | .65                       | 99                       | 21   |
|                           | 16 x 25 x 12              | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-6512   | 1400                     | .65                                  | 97                        | 21                       |      |
|                           | 16 x 20 x 12              | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-6012   | 1100                     | .65                                  | 77                        | 18.6                     |      |
|                           | 12 x 24 x 12 <sup>1</sup> | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> | SLB95-2412   | 1000                     | .65                                  | 70                        | 21                       |      |
|                           | 24 x 24 x 6 <sup>1</sup>  | 23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-4406   | 1000                     | .38                                  | 64                        | 13.3                     |      |
|                           | 20 x 25 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-0506   | 875                      | .38                                  | 56                        | 12.3                     |      |
|                           | 20 x 24 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-0406   | 825                      | .38                                  | 54                        | 12.3                     |      |
|                           | 20 x 20 x 6               | 19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-0006   | 700                      | .38                                  | 45                        | 11.6                     |      |
|                           | 16 x 25 x 6               | 15 <sup>3</sup> / <sub>8</sub> x 24 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-6506   | 700                      | .38                                  | 44                        | 11.6                     |      |
|                           | 16 x 20 x 6               | 15 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-6006   | 550                      | .38                                  | 35                        | 11                       |      |
|                           | 12 x 24 x 6 <sup>1</sup>  | 11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub>  | SLB95-2406   | 500                      | .38                                  | 31                        | 13.8                     |      |

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

P-SERVABOX-208



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