

FILTER SELECTION DATA SHEET

SERVA-CELL MP4 65/85/95

Mini Pleat

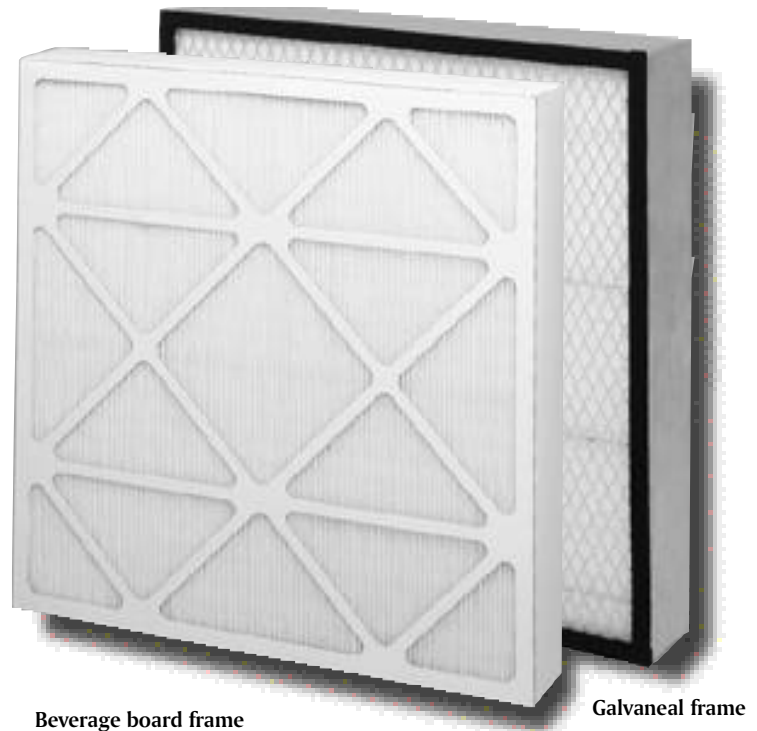
Purolator Filtration Systems

Introduction

- The Purolator SERVA-CELL® MP4 offers the benefits of high efficiency filtration performance, lightweight materials, and industrial strength construction. Only 4" thick, and available in three efficiency ranges—60-65%, 80-85%, and 90-95%—this rigid cartridge mini-pleat filter reduces storage and freight costs while insuring the quality and performance of comparable 6" and 12" rigid box metal filters.
- The high performance and low cost of Purolator's SERVA-CELL MP4 makes it an excellent choice for installation in the following industry conditions: Healthcare, commercial, pharmaceutical, educational, industrial plants, and manufacturing.

Media and Support

- Media: Consists of microfiberglass paper coated with a water repellent binder. This binder promotes media resistance to intermittent moisture exposure which might otherwise affect media performance.
- Pleat configuration: The key to high performance for the SERVA-CELL MP4 is the consistency of pleat spacing provided by the newly developed concept which uses adhesive beads as a pleat separator.
- Pleat support: During assembly, beads of adhesive are applied every 1¼" on both the air-entering and air-exiting sides. The beads on neighboring sides bond together creating a formidable rigid media pak which will withstand turbulent air flow conditions.
- The method of pleat spacing construction greatly improves overall filter performance by providing consistent pleat alignment which promotes maximum exposure to media area, and lowers initial resistances.



Beverage board frame

Galvaneal frame

- Fiber density increases gradually from the air-entering to the air-exiting sides providing dual density filtration action. The finer fibers located at the final stage of media filtration insure high dust holding capacity.

Construction features

- Frame options: Available in a two-piece, high wet strength beverage board frame with a moisture/mildew resistant coating, or galvaneal frame with neoprene gasketing for applications requiring metal.
- Assembly (board frame): A fully bonded double wall frame combines with the integral corner flaps and forms a rugged, durable filter which will not rack, warp or leak under normal operating conditions.

(Construction features continued on back side)



Available in conversion model for side access extrusion track systems. This gasketed, metal channel is imbedded and glued into the filter/frame pack

Purolator
Products Air Filtration Company

- Assembly (metal frame): For areas where MOISTURE GUARD® beverage board is not acceptable, a 24-gauge galvaneal frame is available.
- To assure no dirty air bypass, the media pack is securely bonded to the periphery of the enclosure frame with solvent-free water based glue.
- Tested in accordance with U.L. Standard 900 and ASHRAE 52.1-1992.
- In 4" models, accurate pleat alignment is maintained by die-cut pleat spacers on the upstream side.
- Recommended operating temperature: 200°F.

3. The filter media shall consist of a microfiberglass paper coated with a water repellent binder.
4. The frame shall be a two-piece, high wet strength MOISTURE GUARD beverage board frame with a moisture/mildew resistant coating, or galvaneal frame with neoprene gasketing
5. During assembly, beads of adhesive shall be applied every 1-1/4" on both the air-entering and air-exiting sides. The beads on neighboring sides bond together creating a formidable rigid media pak which will withstand turbulent air flow conditions.
6. When tested in accordance with ASHRAE Test Std. 52.1-1992 the filter media shall have an average efficiency of _____% and an arrestance of not less than _____%.
7. To assure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the MOISTURE GUARD beverage board or galvaneal frame with solvent-free water based glue.
8. Filters shall be listed and rated by Underwriters Laboratories, Inc.

Suggested product specifications

1. The filter shall be the SERVA-CELL MP4 as manufactured by Purolator Products Air Filtration Company.
2. Air filters shall be the Mini pleat air filter type engineered to provide medium and high efficiency filtration combined with a prolonged life cycle.

Performance data: SERVA-CELL® MP4

| Series | Nominal size W x H x D | Actual Size W x H x D | SERVA-CELL MP4 Model number* | Rated capacity CFM | Initial resistance inches w.g. | Media area/ Sq. ft. | Filter weight lbs. |
|---------------------|---------------------------|--------------------------|---------------------------------|-----------------------|-----------------------------------|------------------------|-----------------------|
| 65 60-65% | 12 x 24 x 4 | 11 3/8 x 23 3/8 x 3 3/4 | SLMP465-2404 | 1000 | .40 | 60 | 20.0 |
| | 16 x 20 x 4 | 15 3/8 x 19 3/8 x 3 3/4 | SLMP465-6004 | 1100 | .40 | 65 | 9.0 |
| | 16 x 25 x 4 | 15 3/8 x 24 3/8 x 3 3/4 | SLMP465-6504 | 1400 | .40 | 83 | 10.0 |
| | 18 x 24 x 4 | 17 3/8 x 23 3/8 x 3 3/4 | SLMP465-8404 | 1500 | .40 | 90 | 11.0 |
| | 20 x 20 x 4 | 19 3/8 x 19 3/8 x 3 3/4 | SLMP465-0004 | 4000 | .40 | 83 | 10.0 |
| | 20 x 24 x 4 | 19 3/8 x 23 3/8 x 3 3/4 | SLMP465-0404 | 4050 | .40 | 100 | 17.0 |
| | 20 x 25 x 4 | 19 3/8 x 24 3/8 x 3 3/4 | SLMP465-0504 | 1750 | .40 | 105 | 18.0 |
| | 24 x 24 x 4 | 23 3/8 x 23 3/8 x 3 3/4 | SLMP465-4404 | 2000 | .40 | 120 | 20.0 |
| 85 80-85% | 12 x 24 x 4 | 11 3/8 x 23 3/8 x 3 3/4 | SLMP485-2404 | 1000 | .59 | 60 | 20.0 |
| | 16 x 20 x 4 | 15 3/8 x 19 3/8 x 3 3/4 | SLMP485-6004 | 1100 | .59 | 65 | 9.0 |
| | 16 x 25 x 4 | 15 3/8 x 24 3/8 x 3 3/4 | SLMP485-6504 | 1400 | .59 | 83 | 10.0 |
| | 18 x 24 x 4 | 17 3/8 x 23 3/8 x 3 3/4 | SLMP485-8404 | 1500 | .59 | 90 | 11.0 |
| | 20 x 20 x 4 | 19 3/8 x 19 3/8 x 3 3/4 | SLMP485-0004 | 1400 | .59 | 83 | 10.0 |
| | 20 x 24 x 4 | 19 3/8 x 23 3/8 x 3 3/4 | SLMP485-0404 | 1650 | .59 | 100 | 17.0 |
| | 20 x 25 x 4 | 19 3/8 x 24 3/8 x 3 3/4 | SLMP485-0504 | 1750 | .59 | 105 | 18.0 |
| | 24 x 24 x 4 | 23 3/8 x 23 3/8 x 3 3/4 | SLMP485-4404 | 2000 | .59 | 120 | 20.0 |
| 95 90-95% | 12 x 24 x 4 | 11 3/8 x 23 3/8 x 3 3/4 | SLMP495-2404 | 1000 | .68 | 60 | 20.0 |
| | 16 x 20 x 4 | 15 3/8 x 19 3/8 x 3 3/4 | SLMP495-6004 | 1100 | .68 | 65 | 9.0 |
| | 16 x 25 x 4 | 15 3/8 x 24 3/8 x 3 3/4 | SLMP495-6504 | 1400 | .68 | 83 | 10.0 |
| | 18 x 24 x 4 | 17 3/8 x 23 3/8 x 3 3/4 | SLMP495-8404 | 1500 | .68 | 90 | 11.0 |
| | 20 x 20 x 4 | 19 3/8 x 19 3/8 x 3 3/4 | SLMP495-0004 | 1400 | .68 | 83 | 10.0 |
| | 20 x 24 x 4 | 19 3/8 x 23 3/8 x 3 3/4 | SLMP495-0404 | 1650 | .68 | 100 | 17.0 |
| | 20 x 25 x 4 | 19 3/8 x 24 3/8 x 3 3/4 | SLMP495-0504 | 1750 | .68 | 105 | 18.0 |
| | 24 x 24 x 4 | 23 3/8 x 23 3/8 x 3 3/4 | SLMP495-4404 | 2000 | .68 | 120 | 20.0 |

*To order the Galvaneal frame option add "GL" to the end of the noted Model number. Example: SLMP465-2404GL.

*To order the Side access extrusion track option add "SA" to the end of the noted Model number. Example: SLMP465-2404SA.



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