

# OdorKleen™ 600

## High Efficiency MERV 10 Carbon/Alumina Pleated Filter



### FEATURES

Superior odor removal

Low pressure drop

Virtually no dusting

Great particulate efficiency

MERV 10 efficiency

Contains a 50/50 blend of CTC 60 carbon and activated alumina with 5% potassium permanganate  $KMnO_4$

Designed to remove ammonia, formaldehyde, sulfur dioxide and hydrogen sulfide

### OdorKleen 600

OdorKleen 600 offers superior performance in gaseous and odor adsorption, as well as excellent particulate filtration. This “combination” product contains 592 gsm of granular activated carbon and activated alumina impregnated with potassium permanganate carbon attached to a high efficiency polyester media.

The OdorKleen 600 “CarbonWeb®” media is an efficient, carbon filled media that provides low resistance to airflow and a high capture rate of gaseous odors. Its 50/50 blend of CTC 60 Carbon and Activated Alumina with 5% Potassium Permanganate has nearly five million square feet of surface area per pound. The result is high-efficiency filtration for a variety of challenges. Unlike many competitors’ products, the “flexible carbon filled media” bonds between the fibers in the OdorKleen 600 and only uses approximately 1% of the carbon’s surface area. This maximizes the exposure of the gas contaminant to the carbon.

The efficiency layer used to capture particulate contaminants is made up of a polyester blend. The combination of the two distinct medias give the filter an efficiency rating of MERV 10, while maintaining a low pressure drop unlike competitors’ products.

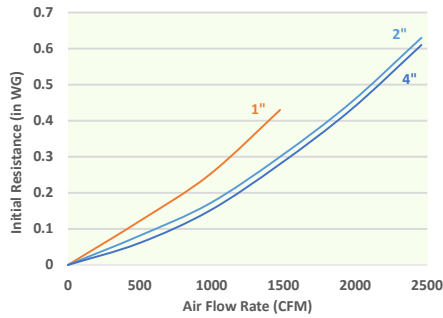
The OdorKleen 600 can be used in several types of applications:

- Chemical Storage
- Laboratories
- Museums and Archives
- Pharmaceutical
- Hospitals
- Airports
- Industrial Facilities
- Commercial Office Buildings
- Sports Arenas
- Smoking Lounges
- Casinos
- Laminate Adhesives
- IAQ Emergency

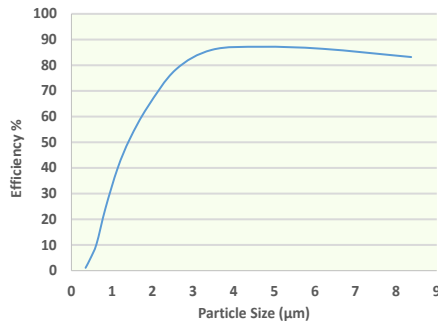
## OdorKleen™ 600 Performance Data

| Filter Depth | Air Velocity | Initial Resistance (inches w.g.) | Final Resistance (inches w.g.) | Pleats Per Linear Foot |
|--------------|--------------|----------------------------------|--------------------------------|------------------------|
| 1"           | 300 FPM      | 0.32                             | 1.0                            | 15                     |
| 2"           | 500 FPM      | 0.45                             | 1.0                            | 14                     |
| 4"           | 500 FPM      | 0.44                             | 1.0                            | 9                      |

### Initial Resistance vs. Air Flow Rate



### Efficiency by Particle Size



## OdorKleen™ 600 Specifications

|                              |   |
|------------------------------|---|
| Filter Depth                 | 1", 2", 4"                              |
| Efficiency                   | MERV 10                                 |
| Media                        | 100% Synthetic Carbon Impregnated Media |
| Media Support                | Self-Supporting                         |
| Frame Type                   | Beverage Board                          |
| Max Operating Temperature    | 180°F (93°C)                            |
| Recommended Final Resistance | 1.2" w.g.                               |
| Filter Certification         | UL 900                                  |

## Engineering Specifications

### 1.0 General Specifications

- 1.1 Filters shall be OdorKleen 600 extended surface pleated air filters as manufactured by Koch Filter.
- 1.2 Filters shall be available in nominal depths of 1", 2", and 4".
- 1.3 Filters are classified by Underwriters Laboratories to UL 900.

### 2.0 Filter Material and Construction

- 2.1 Media shall be 100% synthetic carbon impregnated mechanical media.
- 2.2 Filter media is self-supporting.
- 2.3 Filter frame shall be comprised of a high wet strength beverage board with a cross member designed to increase filter strength and rigidity. Frame shall be recyclable.

### 3.0 Filter Performance

- 3.1 Filters shall be MERV 10 when tested in accordance with ASHRAE 52.2 Test Standard.
- 3.2 For initial resistance of filters, see Performance Data chart above.
- 3.3 Filters shall be rated to withstand a continuous operating temperature up to 180°F.
- 3.4 Filters shall have a recommended final resistance of 1.2" w.g.

| Part Number     | Nominal Size* | Capacity (CFM) |                |
|-----------------|---------------|----------------|----------------|
|                 | WxHxD         | 300 FPM        | 500 FPM        |
| 102-796-12121   | 12x12x1       | 300            | 500            |
| 102-796-12241   | 12x24x1       | 600            | 1000           |
| 102-796-16201   | 16x20x1       | 675            | 1125           |
| 102-796-16251   | 16x25x1       | 850            | 1400           |
| 102-796-18241   | 18x24x1       | 900            | 1500           |
| 102-796-20201   | 20x20x1       | 850            | 1400           |
| 102-796-20241   | 20x24x1       | 1000           | 1675           |
| 102-796-20251   | 20x25x1       | 1000           | 1750           |
| 102-796-24241   | 24x24x1       | 1200           | 2000           |
| <b>High Cap</b> | <b>WxHxD</b>  | <b>500 FPM</b> | <b>625 FPM</b> |
| 102-796-12122   | 12x12x2       | 500            | 625            |
| 102-796-012     | 12x24x2       | 1000           | 1250           |
| 102-796-016     | 16x20x2       | 1125           | 1400           |
| 102-796-017     | 16x25x2       | 1400           | 1750           |
| 102-796-018     | 18x24x2       | 1500           | 1875           |
| 102-796-019     | 20x20x2       | 1400           | 1750           |
| 102-796-020     | 20x24x2       | 1675           | 2100           |
| 102-796-021     | 20x25x2       | 1750           | 2175           |
| 102-796-022     | 24x24x2       | 2000           | 2500           |
| <b>High Cap</b> | <b>WxHxD</b>  | <b>500 FPM</b> | <b>625 FPM</b> |
| 102-796-023     | 12x24x4       | 1000           | 1250           |
| 102-796-025     | 16x20x4       | 1125           | 1400           |
| 102-796-026     | 16x25x4       | 1400           | 1750           |
| 102-796-027     | 18x24x4       | 1500           | 1875           |
| 102-796-028     | 20x20x4       | 1400           | 1750           |
| 102-796-029     | 20x24x4       | 1675           | 2100           |
| 102-796-030     | 20x25x4       | 1750           | 2175           |
| 102-796-031     | 24x24x4       | 2000           | 2500           |

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