



# PRODUCT BULLETIN

**SUBJECT** **OdorKleen ES Carbon /Particulate Filter** **Bulletin No. K-693A**

The Koch **OdorKleen ES** is MERV 8 extended surface pleated panel which offers a unique combination of particulate filtration and odor removal in a totally disposable unit.

## **OdorKleen Construction**

The filter media utilized in **OdorKleen ES** panels is a dual purpose multi-layer product, designed to collect airborne particulate and remove odors and other gasses from the air stream.

100% mechanical media provides high efficiency, excellent dust holding capacity throughout the filter's lifecycle with a MERV 8 performance rating before and after conditioning steps when tested in accordance to ASHRAE Test Standard 52.2-2007. The upstream layer provides an efficiency rating of 70% for 3 to 10 micrometers. The downstream odor removal layer is impregnated with carbon media for absorption of volatile organic compounds (VOC's) from the air stream. This carbon media carries a minimum activation of 60%, insuring high odor absorption efficiency, and extended lifecycles between filter changes.

The two-ply media element is pleated and supported downstream by a rugged, rustproof expanded metal grid. This extended surface configuration provides high dust holding capacity and excellent performance capabilities in a wide variety of applications.

The enclosure frame utilized in **OdorKleen ES** filters is a rigid, high wet-strength beverage board. This ultra-tough frame makes the **OdorKleen** ideal for use in nearly any application, especially in systems where high moisture levels have rendered standard air filters ineffective.

## **Applications**

**OdorKleen ES** filters are presently used to remove odor and particulates in a wide variety of installations, with light to moderate contaminate levels, including commercial office buildings, airports, sports arenas, hospitals, schools, painting facilities, and industrial plants.

**OdorKleen ES** filters are available in 1", 2", and 4" thicknesses. The filters are wrapped in plastic to eliminate absorption of odors during shipping, and are easily interchangeable with standard fiberglass or pleated filters. **OdorKleen ES** filters are totally disposable after use.

**NOTE: For Performance Data, see reverse side.**



**Koch Filter Corporation**  
Filtration Products Crafted with Pride



# PRODUCT BULLETIN

SUBJECT

OdorKleen ES

Performance Data

| Product Code | Nominal Size<br>in Inches | Actual Size In Inches |   |        |   |       | Rated Capacity<br>CFM |            | Initial Resistance<br>(in w.g.) |      |
|--------------|---------------------------|-----------------------|---|--------|---|-------|-----------------------|------------|---------------------------------|------|
|              |                           | Width                 |   | Height |   | Depth | 300<br>CFM            | 500<br>CFM |                                 |      |
| 102-790-001  | 10X20X1                   | 9 1/2                 | x | 19 1/2 | x | 3/4   | 425                   | 700        | STD.                            | HIGH |
| 102-790-002  | 12X24X1                   | 11 3/8                | x | 23 3/8 | x | 3/4   | 600                   | 1000       | 0.20                            | 0.26 |
| 102-790-003  | 14X20X1                   | 13 1/2                | x | 19 1/2 | x | 3/4   | 590                   | 980        | 0.20                            | 0.26 |
| 102-790-004  | 14X25X1                   | 13 1/2                | x | 24 1/2 | x | 3/4   | 730                   | 1215       | 0.20                            | 0.26 |
| 102-790-005  | 15X20X1                   | 14 1/2                | x | 19 1/2 | x | 3/4   | 625                   | 1050       | 0.20                            | 0.26 |
| 102-790-006  | 16X20X1                   | 15 1/2                | x | 19 1/2 | x | 3/4   | 670                   | 1115       | 0.20                            | 0.26 |
| 102-790-007  | 16X25X1                   | 15 1/2                | x | 24 1/2 | x | 3/4   | 840                   | 1400       | 0.20                            | 0.26 |
| 102-790-008  | 20X20X1                   | 19 1/2                | x | 19 1/2 | x | 3/4   | 840                   | 1400       | 0.20                            | 0.26 |
| 102-790-009  | 20X25X1                   | 19 1/2                | x | 24 1/2 | x | 3/4   | 1050                  | 1740       | 0.20                            | 0.26 |
| 102-790-010  | 24X24X1                   | 23 3/8                | x | 23 3/8 | x | 3/4   | 1200                  | 2000       | 0.20                            | 0.26 |
| 102-790-011  | 10X20X2                   | 9 1/2                 | x | 19 1/2 | x | 1 3/4 | 425                   | 700        | 0.18                            | 0.28 |
| 102-790-012  | 12X24X2                   | 11 3/8                | x | 24 3/8 | x | 1 3/4 | 600                   | 1000       | 0.18                            | 0.28 |
| 102-790-013  | 14X20X2                   | 13 1/2                | x | 19 1/2 | x | 1 3/4 | 590                   | 980        | 0.18                            | 0.28 |
| 102-790-014  | 14X25X2                   | 13 1/2                | x | 24 1/2 | x | 1 3/4 | 730                   | 1215       | 0.18                            | 0.28 |
| 102-790-015  | 15X20X2                   | 14 1/2                | x | 19 1/2 | x | 1 3/4 | 625                   | 1050       | 0.18                            | 0.28 |
| 102-790-016  | 16X20X2                   | 15 1/2                | x | 19 1/2 | x | 1 3/4 | 670                   | 1115       | 0.18                            | 0.28 |
| 102-790-017  | 16X25X2                   | 15 1/2                | x | 24 1/2 | x | 1 3/4 | 840                   | 1400       | 0.18                            | 0.28 |
| 102-790-018  | 18X24X2                   | 17 1/2                | x | 23 1/2 | x | 1 3/4 | 900                   | 1500       | 0.18                            | 0.28 |
| 102-790-019  | 20X20X2                   | 19 1/2                | x | 19 1/2 | x | 1 3/4 | 840                   | 1400       | 0.18                            | 0.28 |
| 102-790-020  | 20X24X2                   | 19 1/2                | x | 23 1/2 | x | 1 3/4 | 1000                  | 1675       | 0.18                            | 0.28 |
| 102-790-021  | 20X25X2                   | 19 1/2                | x | 24 1/2 | x | 1 3/4 | 1050                  | 1740       | 0.18                            | 0.28 |
| 102-790-022  | 24X24X2                   | 23 3/8                | x | 23 3/8 | x | 1 3/4 | 1200                  | 2000       | 0.18                            | 0.28 |
| 102-790-023  | 12X24X4                   | 11 3/8                | x | 23 3/8 | x | 3 3/4 | 600                   | 1000       | 0.24                            | 0.32 |
| 102-790-025  | 16X20X4                   | 15 1/2                | x | 19 1/2 | x | 3 3/4 | 670                   | 1115       | 0.24                            | 0.32 |
| 102-790-026  | 16X25X4                   | 15 1/2                | x | 24 1/2 | x | 3 3/4 | 840                   | 1400       | 0.24                            | 0.32 |
| 102-790-027  | 18X24X4                   | 17 1/2                | x | 23 3/8 | x | 3 3/4 | 900                   | 1500       | 0.24                            | 0.32 |
| 102-790-028  | 20X20X4                   | 19 1/2                | x | 19 1/2 | x | 3 3/4 | 840                   | 1400       | 0.24                            | 0.32 |
| 102-790-029  | 20X24X4                   | 19 1/2                | x | 23 3/8 | x | 3 3/4 | 1000                  | 1675       | 0.24                            | 0.32 |
| 102-790-030  | 20X25X4                   | 19 1/2                | x | 24 1/2 | x | 3 3/4 | 1050                  | 1740       | 0.24                            | 0.32 |
| 102-790-031  | 24X24X4                   | 23 3/8                | x | 23 3/8 | x | 3 3/4 | 1200                  | 2000       | 0.24                            | 0.32 |

### Additional Product Information:

1. Recommended Final Pressure Drop is 1.0 inches w.g.
2. **OdorKleen ES** filters are Underwriters' Laboratories Class 2 listed according to U.S. Standard 900.
3. **OdorKleen ES** filters are designed for continuous operating temperatures Up to 120° F (49° C).

6-28-10



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