



# PRODUCT BULLETIN

**SUBJECT MULTI-PLEAT HT for High Temperature Applications**

**Bulletin No: PB-594**

### Applications

Koch Multi-Pleat HT filters are designed for air filtration systems with continuous operational temperatures up to 500° F (260°C). This product is widely used in applications such as paint, spray booths, baking systems, drying ovens, and in any system where elevated operating temperatures require a more specialized type of air filtration.

### Product Construction

Multi-Pleat HT filters are constructed with a medium efficiency extended surface media element secured in an aluminized steel enclosure frame.

The media element is composed of a specifically formulated, extended surface glass micro fiber, designed to provide superior performance without degradation in high temperature systems. The media element is bonded to the entire interior surface of the frame to eliminate air bypass, and the radial design of each pleat insures total media utilization. The media element is supported downstream by a high temperature expanded metal grid.

This media element is enclosed in a frame constructed of 24g aluminized steel. The aluminized construction ensures against flaking during operation in high temperature applications.

### Availability

Multi-Pleat HT filters are available in all popular standard sizes, in depths of 1", 2" and 4". The filter is also offered in Standard Capacity and High Capacity media area configurations to meet the requirements of today's complex filtration systems.

### Product Performance

Multi-Pleat HT filters offer average atmospheric efficiencies of 35-40% (ASHRAE 52.1-1992) and MERV-8 ASHRAE 52.2-1999. Standard operating velocities are 500 FPM, with recommended final pressure drop of 1.0" w.g.

### **PERFORMANCE DATA**

#### **MULTI-PLEAT HT (STANDARD CAPACITY)**

| Nominal Size | Actual Size         | Capacity (CFM) Standard | Capacity (CFM) High | Resistance (Inches W.G.) |         | Media Area (Sq. Ft.) |
|--------------|---------------------|-------------------------|---------------------|--------------------------|---------|----------------------|
|              |                     |                         |                     | 300 FPM                  | 500 FPM |                      |
| 16x20x1      | 15½x19½x¾           | 650                     | 815                 | .50                      | --      | 4.8                  |
| 16x25x1      | 15½x24½x¾           | 850                     | 1060                | .50                      | --      | 6.0                  |
| 20x20x1      | 19½x19½x¾           | 850                     | 1060                | .50                      | --      | 6.2                  |
| 20x25x1      | 19½x24½x¾           | 1050                    | 1315                | .50                      | --      | 7.7                  |
| 24x24x1      | 23 3/8x23 3/8x¾     | 1200                    | 1500                | .50                      | --      | 8.6                  |
| 12x24x1      | 11 3/8x23 3/8x¾     | 600                     | 750                 | .50                      | --      | 4.2                  |
| 16x20x2      | 15½x19½x1¾          | 650                     | 1085                | .20                      | .43     | 8.3                  |
| 16x25x2      | 15½x24½x1¾          | 850                     | 1420                | .20                      | .43     | 10.5                 |
| 20x20x2      | 19½x19½x1¾          | 850                     | 1420                | .20                      | .43     | 11.2                 |
| 20x25x2      | 19½x24½x1¾          | 1050                    | 1755                | .20                      | .43     | 13.1                 |
| 24x24x2      | 23 3/8x23 3/8x1¾    | 1200                    | 2000                | .20                      | .43     | 15.0                 |
| 12x24x2      | 11 3/8x23 3/8x1¾    | 600                     | 1000                | .20                      | .43     | 7.5                  |
| 16x20x4      | 15½x19½x3 5/8       | 650                     | 1085                | .18                      | .40     | 15.1                 |
| 16x25x4      | 15½x24½x3 5/8       | 850                     | 1420                | .18                      | .40     | 18.9                 |
| 20x20x4      | 19½x19½x3 5/8       | 850                     | 1420                | .18                      | .40     | 19.4                 |
| 20x25x4      | 19½x24½x3 5/8       | 1050                    | 1755                | .18                      | .40     | 24.2                 |
| 24x24x4      | 23 3/8x23 3/8x3 5/8 | 1200                    | 2000                | .18                      | .40     | 27.0                 |
| 12x24x4      | 11 3/8x23 3/8x3 5/8 | 600                     | 1000                | .18                      | .40     | 12.9                 |



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