



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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