MicroMAX™
Extended Surface Minipleat Filter

- Minipleat Design

- Beverage Board or metal Frame

- Three Efficiency Ranges
    - 90-95% (MERV 14)
    - 80-85% (MERV 13)
    - 60-65% (MERV 11)

- Compact 4" Depth

- Lightweight Construction

MicroMAX Minipleat Filter

The Koch MicroMAX is an extended surface minipleat filter designed for use in a wide variety of air filtration systems. The MicroMAX offers a unique combination of high efficiency and low pressure drop making it the ideal filter for use in any standard HVAC system.

The added advantages of its compact 4" depth and lightweight-yet-rigid construction also give the MicroMAX unsurpassed capability to perform in more specialized and difficult applications.

Standard Applications

- Hospitals
- Industrial Plants
- Commercial Buildings
- Universities
- Pharmaceutical Facilities
- Sports arenas

Extreme Applications

- Gas turbines
- Variable-Air-Volume Systems
- High Humidity / High Moisture Areas

Specialized Applications

- Diffusion Filters forAutomotive Spray Booths
- Prefilters for HEPA filters in Clean Rooms and other critical areas
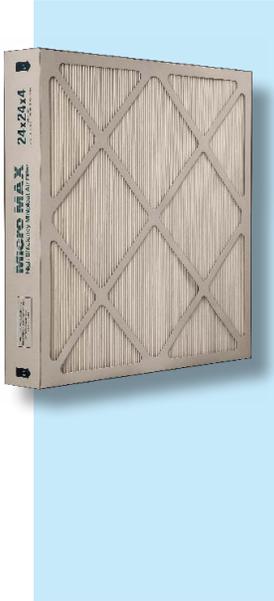
Compact MicroMAX Design...

Reduces Shipping Costs...

Compared with most competitive filters, which are packaged only one-per-carton, **MicroMAX** filters are packaged three-per-carton. This multiple packaging means substantial reductions in shipping costs.

... Saves Space

MicroMAX filters contain 120 sq. ft. of media, yet they are only 4" deep, and weigh just 7 lbs. each. Most competitive 12" deep filters with equal media area required three times the storage space, and weigh as much as 25 lbs. each.

MicroMAX Construction

Minipleat design offers 120 sq. ft. of media in a 24" x 24" x 4" frame for high dust holding capacity and extended filter lifecycles

Media pack is completely sealed within the frame to eliminate air bypass

Minipleat configuration provides high efficiency and lower pressure drop.

Die-cut supports are bonded to media pack for rigidity

Specially-formulated adhesive bead insures even airflow and filter strength.

Available with double-walled, moisture resistant, beverage board frame (completely incinerable) or galvanized steel frame. MicroMAX with galvanized frames are offered with peripheral header (model FM) or no header (model NHM).
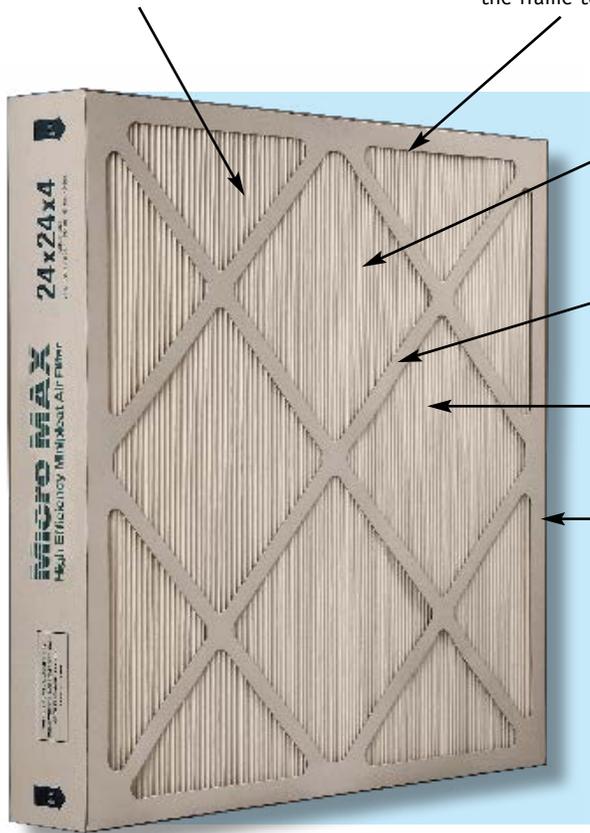
Standard MicroMAX with beverage board frame (completely incinerable)

MicroMAX NHM (above)

MicroMAX FM (right)

Dual Density Filter Media

The media used in MicroMAX minipleat filters is composed of microfiberglass paper, treated with a sprecially-formulated, water-repellent binder. Millions of fibers are constructed into a Graded Density mat, with coarse fibers upstream and finer fibers on the air-exiting side. This dual-density insures full media utilization, which results in higher dust holding capacity and extended filter life. Also available with antimicrobial-treated media.

Adhesive bead seperators uniformly secure the pleats to allow maximum air flow with minimal pressure drop.

MicroMAX Performance Data

MODEL NO	RATED FILTER FACE VELOCITY (FPM)	NOMINAL SIZE (W X H X D)	ACTUAL SIZE (W X H X D)	RATED AIR FLOW CAPACITY (CFM)	RATED INITIAL RESISTANCE (IN. W.G.)	RECOMMENDED FINAL RESISTANCE (IN. W.G.)	GROSS MEDIA AREA (SQ. FT.)	SHIPPING WEIGHT [1] (lbs. per CTN)
MicroMAX 90 - 95% (MERV 14)								
MX-9-444	500	24x24x4	23-3/8x23-3/8x3-3/4	2000	0.68	1.5	120	20
MX-9-054	500	20x25x4	19-1/2x24-1/2x3-3/4	1750	0.68	1.5	111	18
MX-9-044	500	20x24x4	19-3/8x23-3/8x3-3/4	1650	0.68	1.5	106	16
MX-9-004	500	20x20x4	19-1/2x19-1/2x3-3/4	1400	0.68	1.5	88	11
MX-9-844	500	18x24x4	17-3/8x23-3/8x3-3/4	1500	0.68	1.5	95	11
MX-9-654	500	16x25x4	15-1/2x24-1/2x3-3/4	1400	0.68	1.5	88	11
MX-9-604	500	16x20x4	15-1/2x19-1/2x3-3/4	1100	0.68	1.5	70	9
MX-9-244	500	12x24x4	11-3/8x23-3/8x3-3/4	1000	0.68	1.5	63	19
MicroMAX 80 - 85% (MERV 13)								
MX-8-444	500	24x24x4	23-3/8x23-3/8x3-3/4	2000	0.59	1.5	120	20
MX-8-054	500	20x25x4	19-1/2x24-1/2x3-3/4	1750	0.59	1.5	111	18
MX-8-044	500	20x24x4	19-3/8x23-3/8x3-3/4	1650	0.59	1.5	106	16
MX-8-004	500	20x20x4	19-1/2x19-1/2x3-3/4	1400	0.59	1.5	88	11
MX-8-844	500	18x24x4	17-3/8x23-3/8x3-3/4	1500	0.59	1.5	95	11
MX-8-654	500	16x25x4	15-1/2x24-1/2x3-3/4	1400	0.59	1.5	88	11
MX-8-604	500	16x20x4	15-1/2x19-1/2x3-3/4	1100	0.59	1.5	70	9
MX-8-244	500	12x24x4	11-3/8x23-3/8x3-3/4	1000	0.59	1.5	63	19
MicroMAX 60 - 65% (MERV 11)								
MX-6-444	500	24x24x4	23-3/8x23-3/8x3-3/4	2000	0.40	1.5	120	20
MX-6-054	500	20x25x4	19-1/2x24-1/2x3-3/4	1750	0.40	1.5	111	18
MX-6-044	500	20x24x4	19-3/8x23-3/8x3-3/4	1650	0.40	1.5	106	16
MX-6-004	500	20x20x4	19-1/2x19-1/2x3-3/4	1400	0.40	1.5	88	11
MX-6-844	500	18x24x4	17-3/8x23-3/8x3-3/4	1500	0.40	1.5	95	11
MX-6-654	500	16x25x4	15-1/2x24-1/2x3-3/4	1400	0.40	1.5	88	11
MX-6-604	500	16x20x4	15-1/2x19-1/2x3-3/4	1100	0.40	1.5	70	9
MX-6-244	500	12x24x4	11-3/8x23-3/8x3-3/4	1000	0.40	1.5	63	19

1 . Shipping weights listed above apply to MicroMAX with beverage board frames. Add 10 lbs. per carton for metal framed models.

2. Data based on ASHRAE 52.1 and 52.2.

3. MicroMAX filters are classified as U.L. Class 2. Testing conducted according to U.L. Standard 900.

4. Width and height dimensions are interchargeable. MicroMAX filters may be installed with pleats in either direction.

5. Filters may be operated at up to 125% of rated face velocity.

6. MicroMAX filters should be used with a perfilters for maximum performance.