# MicroMAX™

## High Efficiency Minipleat Filter


## Features

- Minipleat design
- Beverage board or metal frame
- Three efficiency ranges
- 90-95% MERV 14
- 80-85% MERV13
- 60-65% MERV 11
- Compact 4" depth
- Lightweight construction

## Minipleat Design

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.

## Dual-Density Filter Media

The media used in MicroMAX mini-pleat filters is composed of micro-fiberglass paper, treated with a specially-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 media combined with a mini-pleat design ensures full media utilization, which results in higher dust holding capacity and extended filter life in a compact configuration.
The MicroMAX is also available with antimicrobial-treated media.

## 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.

## 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

# MicroMAX™ Technical Data

| Nominal Size (HxWxD) | Actual Size (HxWxD) | Air Flow Capacity (CFM) | Initial Resistance @ 500 FPM (in. w.g.) | | Media Area (sq. ft.) | |
|---|---|---|---|---|---|---|
| | | @500 FPM | No Header | Header | No Header | Header |
| **MicroMAX 90-95% MERV 14** | | | | | | |
| 24x24x4 | 23.38 x 23.38 x 3.75 | 2000 | .68 | .78 | 120 | 106 |
| 20x25x4 | 19.38 x 24.50 x 3.75 | 1750 | .68 | .78 | 111 | 101 |
| 20x24x4 | 19.38 x 23.38 x 3.75 | 1650 | .68 | .78 | 106 | 95 |
| 20x20x4 | 19.38 x 19.380 x 3.75 | 1400 | .68 | .78 | 88 | 67 |
| 18x24x4 | 17.38 x 23.38 x 3.75 | 1500 | .68 | .78 | 95 | 85 |
| 16x25x4 | 15.50 x 24.50 x 3.75 | 1400 | .68 | .78 | 88 | 80 |
| 16x20x4 | 15.50 x 19.38 x 3.75 | 1100 | .68 | .78 | 70 | 54 |
| 12x24x4 | 11.38 x 23.38 x 3.75 | 1000 | .68 | .78 | 63 | 52 |
| **MicroMAX 80-85% MERV 13** | | | | | | |
| 24x24x4 | 23.38 x 23.38 x 3.75 | 2000 | .59 | .72 | 120 | 106 |
| 20x25x4 | 19.38 x 24.50 x 3.75 | 1750 | .59 | .72 | 111 | 101 |
| 20x24x4 | 19.38 x 23.38 x 3.75 | 1650 | .59 | .72 | 106 | 95 |
| 20x20x4 | 19.38 x 19.380 x 3.75 | 1400 | .59 | .72 | 88 | 67 |
| 18x24x4 | 17.38 x 23.38 x 3.75 | 1500 | .59 | .72 | 95 | 85 |
| 16x25x4 | 15.50 x 24.50 x 3.75 | 1400 | .59 | .72 | 88 | 80 |
| 16x20x4 | 15.50 x 19.38 x 3.75 | 1100 | .59 | .72 | 70 | 54 |
| 12x24x4 | 11.38 x 23.38 x 3.75 | 1000 | .59 | .72 | 63 | 52 |
| **MicroMAX 60-65% MERV 11** | | | | | | |
| 24x24x4 | 23.38 x 23.38 x 3.75 | 2000 | .40 | .54 | 120 | 106 |
| 20x25x4 | 19.38 x 24.50 x 3.75 | 1750 | .40 | .54 | 111 | 101 |
| 20x24x4 | 19.38 x 23.38 x 3.75 | 1650 | .40 | .54 | 106 | 95 |
| 20x20x4 | 19.38 x 19.380 x 3.75 | 1400 | .40 | .54 | 88 | 67 |
| 18x24x4 | 17.38 x 23.38 x 3.75 | 1500 | .40 | .54 | 95 | 85 |
| 16x25x4 | 15.50 x 24.50 x 3.75 | 1400 | .40 | .54 | 88 | 80 |
| 16x20x4 | 15.50 x 19.38 x 3.75 | 1100 | .40 | .54 | 70 | 54 |
| 12x24x4 | 11.38 x 23.38 x 3.75 | 1000 | .40 | .54 | 63 | 52 |

## Additional Technical Information

1. Performance data is based on ASHRAE Test Standards 52.2-2007.
2. UL Rating – Classified per Underwriters Laboratories Standard 900.
3. Width and height dimensions are interchangeable. MicroMAX filters may be installed with pleats in either direction.
4. Maximum operating temperature – 150°F. (66°C.) Beverage Board / 200°F. (93°C.) Metal Frame
5. MicroMAX filters can be operated up to 125% of rated filter face velocity.