

# MicroMAX™ PL4S

## High Efficiency Synthetic Minipleat Filter



### FEATURES

Minipleat Design

100% Synthetic Media

Plastic Frame

Low Resistance To Airflow

### MicroMax™ PL4S

The Koch MicroMax™ PL4S is a high efficiency extended surface pleated panel filter, engineered to provide higher initial efficiencies with lower initial resistance than similar microfiberglass filters. The new media design allows for compact pleat spacing that produces a low initial pressure drop while maximizing the media area in the filter.

The Koch MicroMax™ PL4S is available in MERV 15, MERV 14 and MERV 11 efficiency when tested in accordance to ASHRAE Test Standard 52.2-2017.

### MicroMax™ PL4S Construction

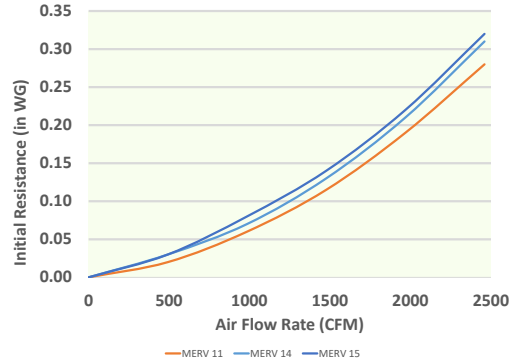
The MicroMax™ PL4S was developed with a 100% synthetic media that is bonded to the entire perimeter of the frame. The synthetic media combined with the plastic frame creates a filter that is water repellent, yields a low system resistance and extended service life. The combination of the 100% synthetic media and the high impact polystyrene frame will not support the growth of Microbials.

The MicroMax™ PL4S is available in a variety of common sizes and performance ranges to fit your application. Additionally, the MicroMax™ PL4S offers unique advantages over the traditional 12" rigid filter, the filters are incinerable, resulting in less impact on landfills. The 4" depth requires less area to store the filters and allows for them to be shipped more economically than their 12" deep counterparts.

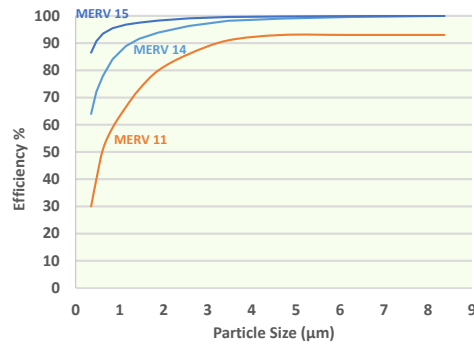
## MicroMAX™ PL4S Performance Data

Filter Efficiency	Initial Resistance (inches w.g.)	Final Resistance (inches w.g.)
MERV 15	0.22	1.5
MERV 14	0.21	1.5
MERV 11	0.18	1.5

### Initial Resistance vs. Air Flow Rate



### Efficiency by Particle Size



## MicroMAX™ PL4S Specifications

Efficiency	MERV 15, MERV 14, and MERV 11
Media	100% Synthetic
Media Support	Thermoplastic Pleat Separators
Frame Type	Plastic
Max Operating Temperature	180°F (82°C)
Filter Certification	UL 900
Manufacturing Certification	ISO 9001:2015

## Engineering Specifications

### 1.0 General Specifications

- 1.1 Filters shall be MicroMAX™ PL4S extended surface pleated air filters as manufactured by Koch Filter.
- 1.2 Filters shall be available in nominal depths of 4".
- 1.3 Filters are classified by Underwriters Laboratories to UL 900.
- 1.4 Filters are manufactured by an ISO 9001 registered company.

### 2.0 Filter Material and Construction

- 2.1 Media shall be 100% synthetic media.
- 2.2 Filter media shall be composed of one continuous sheet of synthetic filter media.
- 2.3 Uniform pleat spacing created by Thermoplastic pleat separators which will promote uniform airflow throughout the media.
- 2.4 The frame shall be composed of plastic construction.
- 2.5 The media pack will be bonded to the entire periphery of the plastic frame to prevent air bypass.

### 3.0 Filter Performance

- 3.1 Filters shall be MERV 15, MERV 14 or MERV 11 when tested in accordance with ASHRAE 52.2-2017 Standard.
- 3.2 For initial resistance of filters, see Performance Data chart above.
- 3.3 Filters shall have a recommended final resistance of 1.5" w.g.

Part Number	Nominal Size*	Efficiency	Capacity (CFM)
	WxHxD		500 FPM
120-614-2424	24x24x4	MERV 15	2000
120-614-2025	25x20x4	MERV 15	1750
120-614-2024	20x24x4	MERV 15	1700
120-614-2020	20x20x4	MERV 15	1400
120-614-1824	18x24x4	MERV 15	1500
120-614-1820	18x20x4	MERV 15	1500
120-614-2516	25x16x4	MERV 15	1400
120-614-1620	16x20x4	MERV 15	1100
120-614-1224	12x24x4	MERV 15	1000
120-624-2424	24x24x4	MERV 14	2000
120-624-2025	25x20x4	MERV 14	1750
120-624-2024	20x24x4	MERV 14	1700
120-624-2020	20x20x4	MERV 14	1400
120-624-1824	18x24x4	MERV 14	1500
120-624-1820	18x20x4	MERV 14	1500
120-624-2516	25x16x4	MERV 14	1400
120-624-1620	16x20x4	MERV 14	1100
120-624-1224	12x24x4	MERV 14	1000
120-654-2424	24x24x4	MERV 11	2000
120-654-2025	25x20x4	MERV 11	1750
120-654-2024	20x24x4	MERV 11	1700
120-654-2020	20x20x4	MERV 11	1400
120-654-1824	18x24x4	MERV 11	1500
120-654-1820	18x20x4	MERV 11	1500
120-654-2516	25x16x4	MERV 11	1400
120-654-1620	16x20x4	MERV 11	1100
120-654-1224	12x24x4	MERV 11	1000

8401 Air Commerce Drive, Louisville KY 40219 | toll free: 800.757.5624 | phone: 502.634.4796 | Fax: 502.969.2364

[info@kochfilter.com](mailto:info@kochfilter.com) | [www.kochfilter.com](http://www.kochfilter.com)