DuraMAX 4v™

High Capacity Extended Surface Minipleat Filter

Koch Green

- **MERV 11-15 performance rating (ASHRAE test standard 52.2-2007)**
- **Five efficiencies: 65, 75, 85, 95 and 98%**
- **High capacity minipleat design**
- **Superior dust holding capacity, low pressure drop, extended filter life and energy savings**
- **Microfiberglass or Synthetic filter media**
- **194 ft² of media in a 24 x 24 x 12" frame**
- **Rigid lightweight plastic frame**
- **Incinerable**
- **UL Class 2 Standard 900**

Koch Filter Corporation...Durable. Reliable. Versatile.

DuraMAX 4v™ *High Efficiency Extended Surface Minipleat Filters*

The **Koch Filter Corporation DuraMAX 4v** is a rigid, extended surface air filter, engineered to provide maximum performance and prolonged filter lifecycles, even in the most difficult environments. The durable, rugged construction of the DuraMAX 4v make it the filter of choice in filtration systems with high velocities or variable air volumes. DuraMAX 4v is constructed with an all plastic frame so it is easily incinerated after use.

Low Pressure Drop Reduces Energy Costs
DuraMAX 4v provides an unequaled combination of low pressure drop and high efficiency through the use of our unique minipleat design. This high capacity minipleat design allows a nominal 24 x 24 x 12 filter to incorporate 194 square feet of filter media. This increased extension of the media surface area insures low pressure drop,which results in lower energy costs to the user.

Extended Filter Life
Another benefit of the increased media area is extremely high Dust Holding Capacity, which significantly prolongs the service life of the filter. Fewer filter changes translate into substantially reduced maintenance and disposal costs.

Engineered Versatility
In order to meet the wide range of requirements found in today's complex air filtration systems, DuraMAX filters are available in five ASHRAE efficiencies (65, 75, 85, 95, and 98%). The filter is offered in three standard sizes (24 x 24 x 12, 20 x 24 x 12, and 12 x 24 x 12). Single or double header configurations are available. The DuraMAX is also available in a medium capacity version known as the DuraMAX2v™. The 2v model offers most of the same filtration benefits as the 4v model,but has approximately 50% less filter media for applications where initial purchase price is of paramount concern. See Bulletin K- 1205A for more information on the DuraMAX 2v.

DuraMAX 4v™ *Applications*

The DuraMAX 4v is an extremely durable filter, yet is also lightweight and compact. This combination makes the DuraMAX an ideal choice for a tremendous variety of applications. The DuraMAX4v is constructed with an all-plastic frame and is completely incinerable after use.

Power Generation, Petrochemical and Industrial Plants
Gas turbine and compressor air intakes

Automotive Manufacturing Plants
Paint booths and assembly areas

Medical and Pharmaceutical Facilities
Operating rooms, critical care areas, clean rooms, and research laboratories

Commercial Buildings
*General HVAC for office buildings, universities, sports arenas and museums*

DuraMAX 4v™ *Construction and Technical Data*

High Capacity Minipleat Design
Provides low resistance to airflow and reduced energy costs

High Efficiency Microfiberglass Filter Media
Provides high efficiency and superior dust holding capacity for prolonged service life. DuraMAX 4v is also available with 100% Synthetic Filter Media. Please consult Bulletin No. PB-906B.
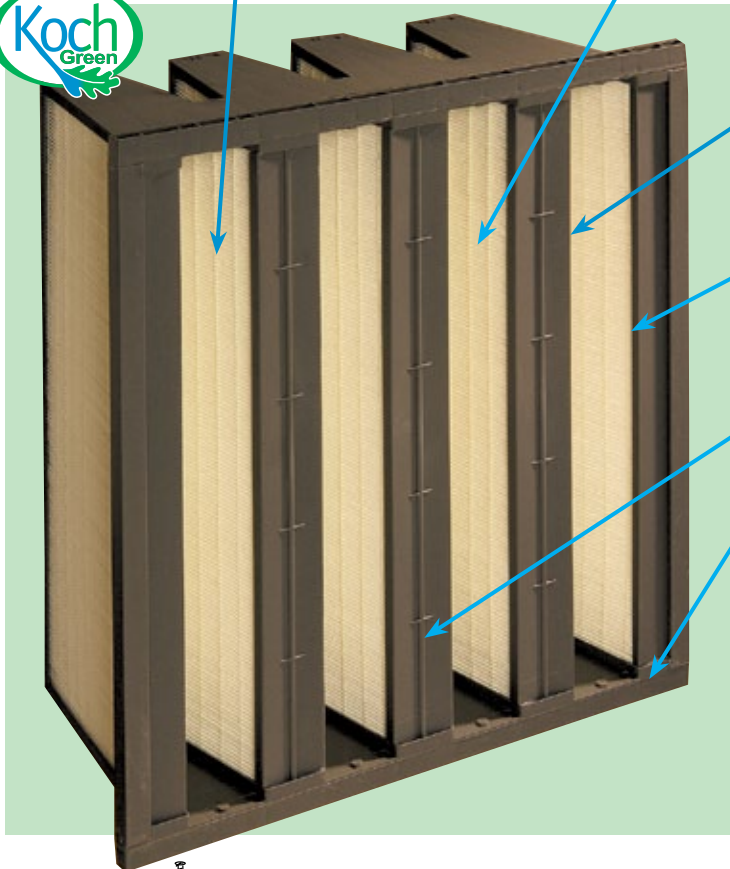
Thermoplastic Glue-Bead Separators
*Ensures consistent media spacing and aerodynamic airflow*

Specialized Media Sealant
Secures media to frame and eliminates air bypass

Durable Plastic Frame Components
Makes the DuraMAX 4v lightweight, yet extremely rigid and easy to install. The all-plastic frame makes the DuraMAX 4v completely incinerable after use.

The DuraMAX is also available in a medium capacity version known as the DuraMAX 2v™. The 2v model offers most of the same filtration benefits as the 4v model, but has approximately 50% less filter media for applications where initial purchase price is of paramount concern. See Bulletin K-1205B for more information on the DuraMAX 2v.
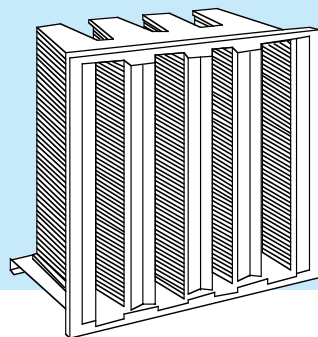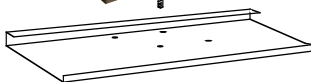
Double Header Model
DuraMAX 4v is offered in two header designs. Standard single header (above), and double header model (left) for housings requiring double header configuration for proper installation.

TOP VIEW
W
D

FRONT VIEW
H
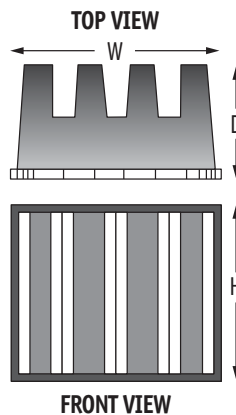
DuraPURE Dimensions*

	NOMINAL	ACTUAL
H	24″	23⅜″
	20	19⅜
	12	11⅜
W	24	23⅜
D	12	11½

Metric Conversion Table

1.0 inches	2.54 cm
1 ft²	.093 m²
1 FPM	.005/m second
1 CFM	1.7 m/hour
1.0 in. w.g.	249 Pa

Reverse-Mount Installations

DuraMAX Filters are generally installed with the flat face of the filter as the air-entry side and the "v "side of the filter as the air exit side. However, for inlet air housings where space is at a premium, DuraMAX can also be installed with the "v" side as the air entry. A DuraGlove™ Synthetic Cube placed over the "v"section of the DuraMAX, creates a unitary, easy to install prefilter/final filter combination. The DuraGlove can be held in place with existing 12" spring clips.

Detailed instructions on installing a reverse-mount DuraMAX 4v are available from your Koch representative.

### DuraMAX4v Filters can be *Reverse-Mounted* in the Filter Housing

DuraGlove™ *Prefilter installed over* DuraMAX™ *Final Filter*

Prefilter and Final Filter are held in frame with one set of spring clips

Filter Housing

Airflow

Filter Housing

DuraMAX 4v

DuraGlove Prefilter

DuraMAX 4v and DuraGlove installed in filter housing
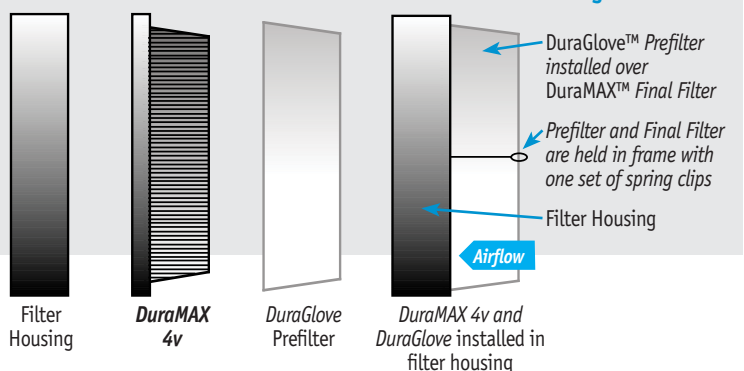
DuraMAX 4v™ *Product Information*

DuraMAX 4v Series	ASHRAE Efficiency	Nominal Size (H x W x D)	Actual Size (H x W x D)	Rated Airflow Capacity (CFM)			Rated Initial Pressure Drop (in. wg.)			Media Area (Sq.Ft.)
				STANDARD	MEDIUM	HIGH	STANDARD	MEDIUM	HIGH	
DuraMAX 4v 98 - MERV 15										
DM4V-981	98%	24 x 24 x 12"	23⅜ x 23⅜ x 11½"	2000	2500	3000	.61	.81	nr*	194
DM4V-982	98%	20 x 24 x 12	19⅜ x 23⅜ x 11½	1675	2100	2500	.61	.81	nr*	162
DM4V-983	98%	12 x 24 x 12	11⅜ x 23⅜ x 11½	1000	1250	1500	.61	.81	nr*	98
DuraMAX 4v 95 - MERV 14										
DM4V-901	95%	24 x 24 x 12	23⅜ x 23⅜ x 11½	2000	2500	3000	.36	.51	.64	194
DM4V-902	95%	20 x 24 x 12	19⅜ x 23⅜ x 11½	1675	2100	2500	.36	.51	.64	162
DM4V-903	95%	12 x 24 x 12	11⅜ x 23⅜ x 11½	1000	1250	1500	.36	.51	.64	98
DuraMAX 4v 85 - MERV 13										
DM4V-801	85%	24 x 24 x 12	23⅜ x 23⅜ x 11½	2000	2500	3000	.27	.40	.60	194
DM4V-802	85%	20 x 24 x 12	19⅜ x 23⅜ x 11½	1675	2100	2500	.27	.40	.60	162
DM4V-803	85%	12 x 24 x 12	11⅜ x 23⅜ x 11½	1000	1250	1500	.27	.40	.60	98
DuraMAX 4v 75 - MERV 12										
DM4V-701	75%	24 x 24 x 12	23⅜ x 23⅜ x 11½	2000	2500	3000	.26	.41	.59	194
DM4V-702	75%	20 x 24 x 12	19⅜ x 23⅜ x 11½	1675	2100	2500	.26	.41	.59	162
DM4V-703	75%	12 x 24 x 12	11⅜ x 23⅜ x 11½	1000	1250	1500	.26	.41	.59	98
DuraMAX 4v 65 - MERV 11										
DM4V-601	65%	24 x 24 x 12	23⅜ x 23⅜ x 11½	2000	2500	3000	.25	.38	.60	194
DM4V-602	65%	20 x 24 x 12	19⅜ x 23⅜ x 11½	1675	2100	2500	.25	.38	.60	162
DM4V-603	65%	12 x 24 x 12	11⅜ x 23⅜ x 11½	1000	1250	1500	.25	.38	.60	98

*nr-operation at this velocity is not recommended

Additional Product Information

1. Width and height dimensions are interchangeable. DuraMAX filters may be installed with the pleats in either vertical or horizontal position.
2. MERV is Minimum Efficiency Reporting Value. MERV Ratings listed are based on ASHRAE Test Standard 52.2-2007.
3. Temperature limitation: 200°F.
4. Recommended final pressure drop: 2.0"w.g.
5. Maximum Burst Pressure: 10"w.g.
6. Degradation Pressure: 15"w.g.
7. DuraMAX 4v filters are classified as Underwriter's Laboratories Class 2. Testing conducted according to U.L. Standard 900.

Resistance vs. Airflow
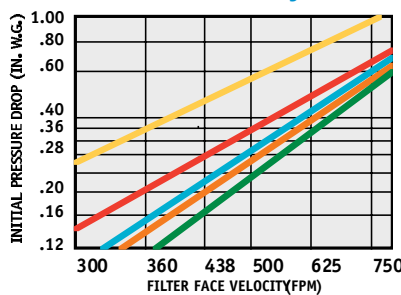
Efficiency vs. Particle Size
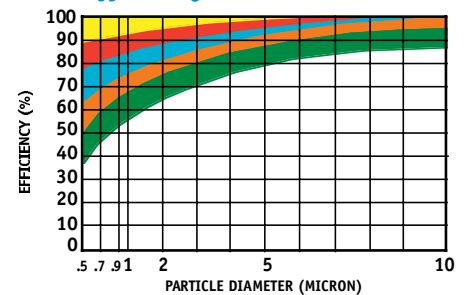
DuraMAX 4v 98 ▮ DuraMAX 4v 95 ▮ DuraMAX 4v 85 ▮ DuraMAX 4v 75 ▮ DuraMAX 4v 65 ▮

Color coding is for informational purposes only and does not represent color coding of actual filter media.

More sizes are available. Please consult price list or contact factory.

Look for the Koch Green icon! *Whenever you see the Koch Green icon, we are identifying a product that meets or exceeds our criteria in one or more of the following categories:* **Earns LEED Points, Reduces Energy Costs, Extends Filter Lifecycles, Conserves Resources, and Improves Indoor Environmental Quality.**

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