KOCH FILTER®
PURE PERFORMANCE

DuraMAX 4v
High Capacity Extended Surface Minipleat Filter

The Koch Filter **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.

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.*

Features

- **MERV 11-15 performance rating**

- **High efficiency microfiberglass or synthetic media**

- **Low pressure drop**

- **Reduced energy cost**

- **194 square feet of media (24x24x12)**

- **Incinerable**

- **Light-weight plastic, extremely rigid frame**

- **Superior dust holding and prolonged filter life**

High Capacity Minipleat design provides low resistance to airflow and reduced energy costs.

Thermoplastic glue-bead separators ensure low pressure drop and aerodynamic airflow.

Specialized media sealant secures media to frame and eliminates air bypass.

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

DuraMAX 4v Filter | K-996B

DuraMAX 4v™ Product Information

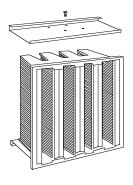| Part Number	ASHRAE Efficiency	Nominal Size (H x W x D)	Actual Size (H x W x D)	Rated Airflow Capacity (CFM)			Rated Initial Pressure Drop (in. w.g.)			Media Area (Sq.Ft.)
				STANDARD	MEDIUM	HIGH	STANDARD	MEDIUM	HIGH	
DuraMAX 4v 98 - MERV 15										
111-600-101	98%	24 x 24 x 12"	$23^3/_8$ x $23^3/_8$ x $11^1/_2$"	2000	2500	3000	.61	.81	nr*	194
111-600-102	98%	20 x 24 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1675	2100	2500	.61	.81	nr*	162
111-600-104	98%	20 x 20 x 12	$19^3/_8$ x $19^3/_8$ x $11^1/_2$	1400	1725	2000	.61	.81	nr*	136
111-600-103	98%	12 x 24 x 12	$11^3/_8$ x $23^3/_8$ x $11^1/_2$	1000	1250	1500	.61	.81	nr*	98
DuraMAX 4v 95 - MERV 14										
111-601-101	95%	24 x 24 x 12	$23^3/_8$ x $23^3/_8$ x $11^1/_2$	2000	2500	3000	.36	.51	.64	194
111-601-102	95%	20 x 24 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1675	2100	2500	.36	.51	.64	162
111-601-104	95%	20 x 20 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1400	1725	2000	.36	.51	.64	136
111-601-103	95%	12 x 24 x 12	$11^3/_8$ x $23^3/_8$ x $11^1/_2$	1000	1250	1500	.36	.51	.64	98
DuraMAX 4v 85 - MERV 13										
111-602-101	85%	24 x 24 x 12	$23^3/_8$ x $23^3/_8$ x $11^1/_2$	2000	2500	3000	.27	.40	.60	194
111-602-102	85%	20 x 24 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1675	2100	2500	.27	.40	.60	162
111-602-104	85%	20 x 20 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1400	1725	2000	.27	.40	.60	136
111-602-103	85%	12 x 24 x 12	$11^3/_8$ x $23^3/_8$ x $11^1/_2$	1000	1250	1500	.27	.40	.60	98
DuraMAX 4v 75 - MERV 12										
111-603-101	75%	24 x 24 x 12	$23^3/_8$ x $23^3/_8$ x $11^1/_2$	2000	2500	3000	.26	.41	.59	194
111-603-102	75%	20 x 24 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1675	2100	2500	.26	.41	.59	162
111-603-104	75%	20 x 20 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1400	1725	2000	.26	.41	.59	136
111-603-103	75%	12 x 24 x 12	$11^3/_8$ x $23^3/_8$ x $11^1/_2$	1000	1250	1500	.26	.41	.59	98
DuraMAX 4v 65 - MERV 11										
111-604-101	65%	24 x 24 x 12	$23^3/_8$ x $23^3/_8$ x $11^1/_2$	2000	2500	3000	.25	.38	.60	194
111-604-102	65%	20 x 24 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1675	2100	2500	.25	.38	.60	162
111-604-104	65%	20 x 20 x 12	$19^3/_8$ x $23^3/_8$ x $11^1/_2$	1400	1725	2000	.25	.38	.60	136
111-604-103	65%	12 x 24 x 12	$11^3/_8$ x $23^3/_8$ x $11^1/_2$	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.
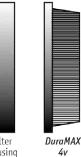3. Temperature limitation: 200°F.
4. Recommended final pressure drop: 2.0"w.g.
5. Maximum Burst Pressure: 10"w.g.
6. Degradation Pressure: 15"w.g.
7. DuraMAX 4v filters are listed and tested in accordance with UL Standard 900.

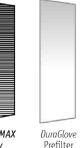**Double Header Model**
DuraMAX 4v is offered in two header designs. Standard single header (above), and double header model (left) for housings requiring double header configuration for proper installation.

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.

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*