Koch Filter Corporation
Filtration Products Crafted with Pride

# *Air Filtration Products*
## for Turbomachinery Air Inlet Systems


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

Bulletin No. K-GT909

# *Air Filtration Products* for Turbomachinery

## Air Inlet Systems

*High efficiency air filtration is a key factor in achieving cost-effective operation of industrial rotating equipment, such as gas turbines and centrifugal compressors.*

**Koch Filter Corporation** manufactures a wide range of filters for gas turbine air intakes of all sizes and types. Koch products are presently installed in nearly every imaginable environment, from hot and gritty desert environments to salty coastal locations to icy arctic applications. Regardless of the operating environment or system design, there's a proven, reliable Koch product to meet the need.

**Trained Experts in the Field**

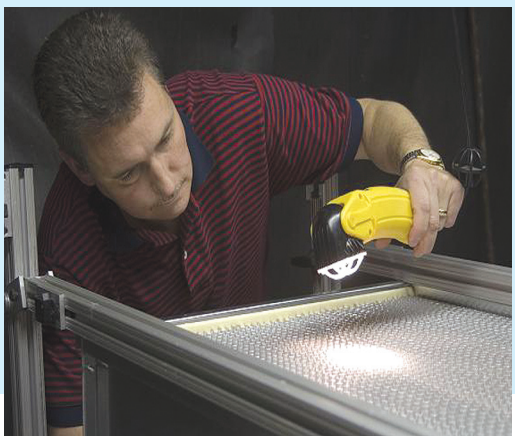
Koch Filter Corporation presently supplies high quality gas turbine filtration products to customers across the U.S. and around the world. To insure the prompt availability of the complete Koch Filter Corporation product line, a large and effective network of trained field representatives has been developed. Supported by local and regional warehousing points, this experienced sales team is always ready to offer solutions to any filtration problem, regardless of the customer's location.

## Value-added services

**Site Surveys**. Koch's team of trained experts specializes in on-site surveys of turbine housings. These system surveys are an essential component in helping our customers determine the appropriate filtration solution for their unique circumstances.

**Filtration Seminars**. Koch Filter Corporation customers have complete access to our library of educational seminars related to general air filtration and gas turbine applications in particular.

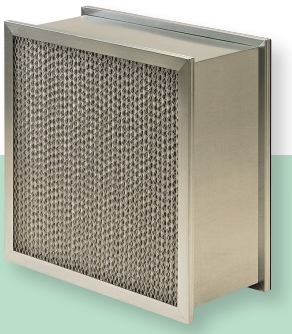
**Filter Lifecycle Analysis**. Utilizing specially-designed instrumentation, Koch Filter has developed the capability to analyze our customers' partially-used air filters to measure efficiency, resistance to airflow (pressure drop), and other important performance criteria. This information is vital in determining whether or not a filter has reached the end of its useful lifecycle. The results of these tests are reported to the customer. In many cases a filter change can be postponed until the next general maintenance period. The result is significant savings for our customers.



## DuraMAX 4v and 2v High Efficiency Minipleat Filters

- 12"deep extended surface minipleat V-style filter provides unequaled combination of low resistance to airflow, high efficiency, and prolonged filter life.
- DuraMAX 4v is designed for use as a final filter. 2v model is designed for use as a prefilter. 4v Final Filter packs 194 $ft^2$ media in a 24x24x12 frame. 2v Prefilter contains 110 $ft^2$ of media.
- Both models are available in microfiberglass or synthetic filter media.
- Standard 4v and 2v models are constructed with all plastic frame, no metal components, no rivets, and are completely incinerable after use.
- Also available with protective expanded metal faceguards upon request.
- 4v model may be combined with the DuraGlove™ Prefilter (*see bottom right*) in reverse-mount installations.
- Several standard sizes are available.

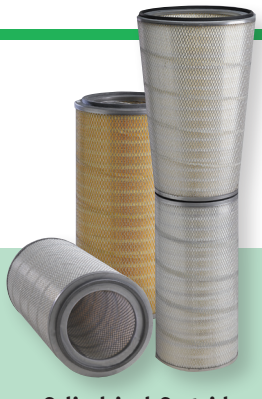
**ASHRAE Efficiencies:** 65%, 85%, 95%, and 98%.
**MERV Rating:** 11–16
**Consult Bulletin No:** K-996B (4v) and K-1205B (2v)



## Maxi-Cell Gas Turbine Inlet Filters

- Extended surface, high efficiency barrier filter designed for maximum performance in even the most extreme atmospheric conditions.
- Dual-layered microfiberglass media with Double-Edge™ corrugated aluminum separators. (*Available with coated separators for highly corrosive environments*).
- Galvanized steel cell sides with expanded metal faceguards on air entry and air exit sides. Single header or Double header configurations.

**ASHRAE Efficiencies:** 65% and 95%.
**MERV Rating:** 11–15
**Consult Bulletin No:** K-386A



## Cylindrical Cartridge Filters for Gas Turbine Air Intakes

- Pleated media cartridges perform in self-cleaning pulse systems or standard non-pulsing systems.
- Expanded metal retainer screens inside and outside.
- Multiple media options.

**Consult Bulletin No:** PB-798-20

## Multi-Sak HD Heavy Duty Pocket Filters

- High efficiency Final Filter and medium efficiency Prefilter models available.
- Progressively dense synthetic media is ideal for humid environments.
- Durable, self-supporting pockets retain rigid shape in airstream.
- Pockets designed for maximum air flow, low pressure drop, and superior dust holding capacity.
- Triple-Lock™ Frame-to-Pocket sealing method insures durability in difficult environments.

**ASHRAE Efficiencies:** 65% and 95%.
**MERV Rating:** 11–15
**Consult Bulletin No:** K-1009A
(To be released)

## Multi-Pleat GT Pleated Panel Filter

- Extended surface pleated panel designed for use as a prefilter in gas turbines, centrifugal compressor air intakes, and other high velocity systems.
- Integral pleat supports.
- High performance synthetic filter media.
- Media is supported by a rust resistant metal grid.
- Available in a wide range of standard and custom sizes.

**ASHRAE Efficiencies:** 25–30%
**MERV Rating:** 8
**Consult Bulletin No:** K-906A

## Multi-Pleat GT-HD Heavy Duty Pleated Panel Filter

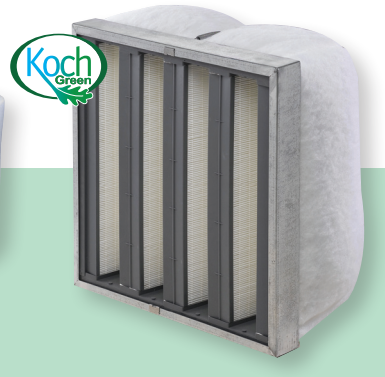
- Ultra heavy-duty frame is moisture resistant and is designed for high humidity applications.
- Specialized high loft synthetic media is moisture resistant.
- Replacement for prefilters provided in OEM inlet air housings.
- Media is supported by a specialized heavy-duty rust resistant galvanized-dipped expanded metal grid.
- Replacement for prefilters provided in OEM inlet air housings.

**ASHRAE Efficiencies:** 25-30%
**MERV Rating:** 7
**Consult Bulletin No:** K-906C

## Prefilter Pads, Blankets and Wrap-Arounds

- A wide range of synthetic and fiber-glass media designed for use as a prefilter in gas turbines and other high velocity systems.
- Available as prefilter pads or blankets for Maxi-Cell and DuraMAX or as a wrap-around prefilter for cylindrical cartridges.
- Available media–Synthetic: 1"and 2". Fiberglass: 2"and 4".

**ASHRAE Efficiencies:** <20%
**MERV Ratings:** 6
**Consult Bulletin Nos:** PB-001-B, K-386D



## DuraGlove Cube Prefilter

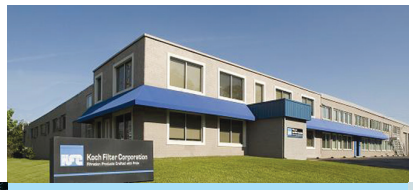
- The DuraGlove Prefilter is designed to prolong the lifecycle of the DuraMAX 4v Final Filter (*see top left*) in reverse-mount installations.
- Reverse-mount installations, in which DuraMAX 4v Final Filters are installed with the "V's" as the air entry side, are common in inlet housings where limited space makes it difficult to install a separate bank of prefilters.
- The DuraGlove is constructed with durable synthetic filter media formed into a cube configuration and fits snugly onto the air entry face of the DuraMAX 4v.
- Several standard sizes are available.

**ASHRAE Efficiency:** 30%–35%
**MERV Rating:** 8
**Consult Bulletin No:** K-996B

# Koch Filter Corporation

Filtration Products Crafted with Pride

*Louisville, KY ▶*
*Headquarters, Manufacturing Plant, and Regional Sales Office*



*East Greenville, PA*
*Manufacturing Plant*
*and Regional Sales Office*
*▼*

*Serving The World*


*Rancho Cucamonga, CA ▲*
*Manufacturing Plant*
*and Regional Sales Office*

*◀ Houston, TX*
*Manufacturing Plant*
*and Regional Sales Office*

**Since 1966, Koch Filter Corporation has been an industry leader** in the manufacturing of HVAC Air Filtration Products. Operated by the Koch family, The Koch Filter Corporation is one of the largest privately held companies in the air filtration industry. Over the course of time, Koch filter has evolved into a full-line manufacturer of air filtration products for Commercial, Industrial, and Hospital Applications.

*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.***

**Corporate Offices**
P.O. Box 3186 • 625 West Hill Street (40208)
Louisville, KY 40201 • 502.634.4796
Fax: 502.637.2280 • E mail: info@kochfilter.com
www.kochfilter.com

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