

# KEI FILTERS

## PRE-FILTERS

### PANEL FILTERS 30%-36%

#### Model 502 24X24X2

Reinforced, non-woven, flameproof polyester fabric in an aluminum and chipboard frame. 4 sq. ft. filtering media, 35% ASHRAE efficiency. Use in Large Dust Collection Systems, Filtered Air Cleaners and Portable Filtered Units. Disposable.

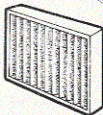


Model 502

#### Model 507 24X12X2

30%-36%

Pleated folds of non-woven reinforced cotton-rayon in a diamond shaped grid with 98% open area in moisture-resistant kraftboard. 8.7 sq. ft. filtering media, 35% ASHRAE efficiency. Use in Office Filtered Air Cleaners. Disposable.



Model 507

#### Model 506 24X24X2

72%

4 layers of woven polypropylene (safe at 250 degrees) with permanent electrostatic charge and low pressure drop. Two layers are each cinched in two galvanized frames with an accumulator chamber between frames for double filtration effect. 4 sq. ft. filtering media, 72% ASHRAE efficiency. Use in Dust Collection Systems, Filtered Air Cleaners, Portable Filtered Units and Electrostatic Precipitators. Reusable.



Model 506

### CUBE FILTERS 45%-50%

#### Model 500 24X24X1 -- 4 sq. ft.

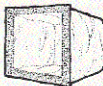
#### Model 505 24X24X20 -- 20 sq. ft.

#### Model 503 24X24X10 -- 10 sq. ft.

3 layers of permanently bonded, non toxic Dacron fibers with high dust holding capacity and long life. Anti bypass, self-gasketing edge tackified in steel frames to prevent off-loading. Use Models 500 and 503 (Second Stage Filters) in Filtered Air Cleaners and Portable Filtered Units. Use Model 503 (Pre-filter) in Dust Collection Systems. Disposable.



Model 500



Model 503

## FINAL FILTERS

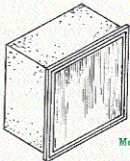
### CELL FILTERS 65%-95%

#### Model 520 24X24X12 -- 132 sq. ft. 65% ASHRAE

#### Model 521 24X24X12 -- 132 sq. ft. 95% ASHRAE

#### Model 522 24X24X12 -- 132 sq. ft. 85% ASHRAE

Micro fibreglas filter media held in a wood frame with an upstream flange to prevent bypass. Maximum holding capacity with minimum space and low pressure drop. Aluminum separators fastened with non combustible neoprene adhesive. Use in Dust Collection Systems, Filtered Air Cleaners and Portable Filtered Units. Disposable.



Model 521

## VEE BAG FILTERS

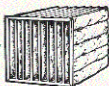
65%, 95%

**Model 517** 24X24X22 -- 58 sq. ft. 65% ASHRAE

**Model 518** 24X12X2 -- 30 sq. ft. 95% ASHRAE

5 pockets of self supporting ultrafine filter media contained in each pocket with low pressure drop. Use Model 517 in Body Shop Filtered Air Cleaners. Use Model 518 in Office Filtered Air Cleaners. Disposable.

Model 517

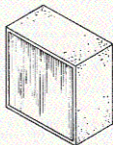


## HEPA CELL FILTERS

99.97%

**Model 530** 24X24X12 -- 235 sq. ft. 99.97% DOP

Ultra high efficiency micro fiberglass media in a metal frame with an upstream flange to prevent bypass. Efficient at .03 Microns; collects up to .01 Microns at a lesser efficiency. Use in Dust Collection Systems, Filtered Air Cleaners and Portable Filtered Units. Disposable.



MODEL 530

## REPLACEMENT MEDIA

### CAGE FILTERS

30%-95%

**Model 560** 24X24X12 -- 41.7 sq. ft. 90% 90% ASHRAE

**Model 561** 24X24X12 -- 41.7 sq. ft. 80%-85% ASHRAE

**Model 562** 24X24X12 -- 41.7 sq. ft. 50%-55% ASHRAE

**Model 563** 24X24X12 -- 41.7 sq. ft. 30%-36% ASHRAE

Reinforced mat of extremely fine glass fibers. Use as replacement filters in older KRI Dust Collection and Filtered Units. Disposable.

Model 560



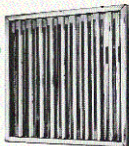
### MIST FILTERS

**Model 550** 24X24X2 **Model 553** .25 1/4X35X2

**Model 551** 27X35X2 **Model 554** 25X35X2

4 layers of uniquely formed baffles arranged to eliminate direct passage of mist. Mist swirls and condenses in filter then flows through bottom drains. Use in Large Dust Collection Systems, Filtered Air Cleaners and Portable Filtered Units to collect oil, water, and kerosene mists. Reusable.

Model 550



### ODOR FILTERS

#### ACTIVATED CARBON FILTERS

**Model 544** 24X12X2 -- 4 lbs. carbon.

**Model 540** 24X24X2 -- 5.7 lbs. carbon.

**Model 542** 24X24X6 -- 24 lbs. carbon.

**Model 541** 24X24X12 -- 48 lbs. carbon.

Activated carbon particles in a honeycomb structure for high absorption with low pressure drop. Use Models 540-542 in Large Dust Collection Systems, Filtered Air Cleaners and Portable Filtered Units. Use Model 544 in Office Filtered Air Cleaner for odor removal. Disposable.

Model 540



### MICRON SIZE RATINGS

Airborne particulate is measured in sizes of Microns, with one Micron equal to 1/25,000 of one inch. The filtration ability of filters is rated according to the amount and micron size of particulate which escapes through the filters. Particulate of 10 Microns or larger consists of heavy atmospheric dusts, fly ash and visible particulate. Microns sized between 5 - 10 are average atmospheric dusts, pollens and molds, and between 1 - 5 are light atmospheric dusts, bacteria and descending impurities. Particulate from 1 - 0.3 Microns and smaller are made of fumes and oil smokes, bacteria and suspended contaminants.

### ASHRAE EFFICIENCY RATINGS

The ASHRAE airborne contaminant test is the major testing procedure to determine the filtering capacity and ability of filters. ASHRAE 52-76 is the tested standard at which all filter media are measured against. Filtration of particulate of 10 or more Microns is rated at 5 - 15% ASHRAE roughing efficiency. Filters collecting contaminants of 5 - 10 Microns are rated at 20 - 60% ASHRAE medium efficiency; between 1 - 5 Microns are at 85 - 95% ASHRAE high efficiency rating. A 95 - 100% ASHRAE ultra high efficiency rating is given to filters which collect particulate of 0.3 - 1 Microns or smaller.

### DOP EFFICIENCY RATINGS

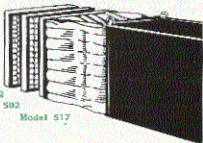
The DOP (dioctylphthalate) smoke test is one of the procedures used to test the collection ability of filters. The DOP smoke generator is specially controlled to generate smoke particles of 0.03 Micron size. All KEI HEPA filters are pre-tested using this DOP method. This assures that a filter is 99.97% efficient on particles of 0.3 Microns or larger in size. For higher efficiency filters of 99.99%, a scanning technique is utilized to supplement the overall DOP testing.

### FILTER MAINTENANCE

Filtered Units will not operate to maximum efficiency if the filters are dirty. Check the Unit periodically to determine if filters need changing or cleaning. The PRE-FILTER should be cleaned when the surface is coated and little light passes through. Remove the filter from the Unit and shake the residue into a container. The PRE-FILTER should be changed when the surface is completely coated with dirt and no light passes through after being shaken. At this time these filters should be replaced.

The SECOND STAGE FILTER should be shaken or vacuumed at the same time as the PRE-FILTER. The FINAL FILTER will need to be replaced when there is a noticeable reduction in suction, as indicated by the Magnehelic pressure gauge, even if the PRE- and SECOND STAGE FILTERS are clean.

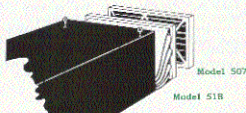
If the particulate that you are working with may be toxic, wear a face mask when changing filters to guard against any possible inhalation of the material. When inserting cleaned or new filters be sure they are placed securely in the correct filter tracks to ensure complete sealing of the Unit and to prevent by-pass of fine particulate.



Model 502

Model 502

Model 517



Model 507

Model 518