DEEP PLEAT HEPA

High Efficiency Particulate Air Filters

GloCel-I High Efficiency Particulate Air (HEPA) filters are the most efficient air filters commercially available. They have broad application in clean rooms and other areas requiring the very highest levels of contamination control, including:

- Pharmaceutical Processing
- Semiconductor manufacturing
- Electronics
- Photo Film manufacturing / Processing
- Hospitals
- Universities
- Laboratories
- Food Processing Units
- Asbestos Abatement

GloCel-I filters are available to meet all performance classes as per the Institute of Environmental Sciences & Technology (IEST) Recommended Practice (RP) IEST-RP-CC001.

GloCel-I filters are available in a variety of moc and cell side configurations to competitive framing systems or sealing designs, refer to the section on selection data for a complete list of options.

Manufactured to the High Quality Standards

Standard Capacity

5⅞″deep–125 FPM @ 1.0 in. w.g.

11½ ″ deep – 250 FPM @ 1.0 in. w.g.

Efficiencies:

99.97% for H13and 99.997% for H14 minimum efficiency on 0.3 micrometer particles.

Additional efficiency levels including ULPA available higher efficiencies, up to 99.99995% on .10 to .20µm particles available with our Dimple Pleat GloCel-I mini-pleat filters.

High Capacity

24″ x 24″ x 11½″ deep – 2000 CFM @ 1.4 in. w.g.

Efficiencies: 99.97% and 99.99% minimum efficiency on 0.3 micrometer particles.

High Capacity GloCel-I HCX filters are designed to handle higher airflow than a standard HEPA filter. This offers greater operating flexibility and cost savings.

- Double the airflow of a standard capacity with only a 40% increase in resistance.
- Lower resistance, lower energy cost, and longer life at the same rate of flow.

GloCel-I Selection

GloCel-I filters are available in a wide variety of standard sizes and construction materials. Special sizes can be fabricated or special materials used for unique requirements.

There are twelve criteria encompassing materials and performance that go into the makeup of an GloCel-I filter. Careful selection of the right combination will result in the filter that best meets the needs of your application.

Size
Sizes from 8″ x 8″ to 36″ x 72.″

GloCel-I filter sizes are listed with the height dimension first, followed by the width, then depth.

Minimum Efficiency
99.97% – 0.3µm
99.99% – 0.3µm
99.999% – 0.3µm

Scan Tested (Optional
GloCel-I filters can be scan tested to eliminate pinhole leaks.

Media
Waterproof, fre-retardant microglass
Waterproof, fre-retardant, radiation resistant microglass

Cell Side Material
Plywood
Fire Retardant Plywood
Particle Board
Fire Retardant Particle Board
*Galvanized Steel
*Stainless Steel
*Aluminum

Separators
Aluminum
Vinyl Coated Aluminum

Bond
Polyurethane Elastomer
Silicone
Black Cement

Gasket
Neoprene Rubber
Silicone
Polyurethane

Gasket Location
None
One Side
Both Sides

Faceguards (Optional
4 x 4 Mesh Hardware Cloth
Galvanized Steel
Stainless Steel

Faceguard Location
None
One Side
Both Sides

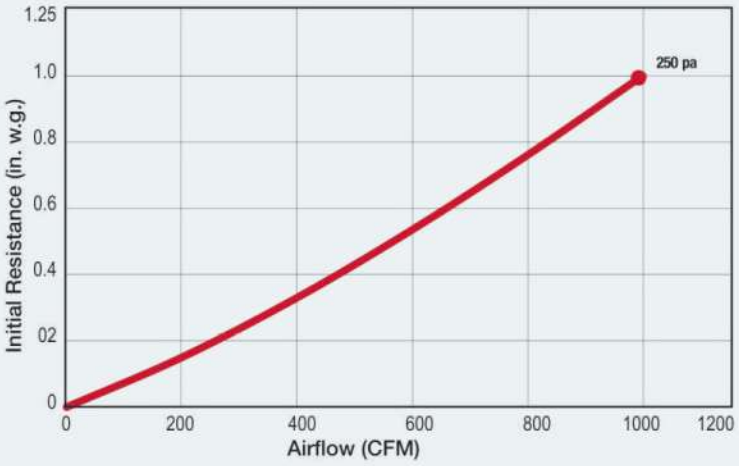
Product Information

Operating Comparison	Standard GloCel-I 24" x 24" x 11½"	High Capacity GloCel-I HCX 24" x 24" x 11½"
Rated Airflow Capacity @ 1.4 in. w.g. (350 Pa) initial resistance		2000 CFM (3400 m³/hr.)
Rated Airflow Capacity @ 1.0 in. w.g. (250 Pa) initial resistance	1000 CFM (1700 m³/hr.)	1500 CFM (2550 m³/hr.)
Service Life Ratio @ 1000 CFM (1700 m ³/hr.)	1.0	2.0

Performance Data

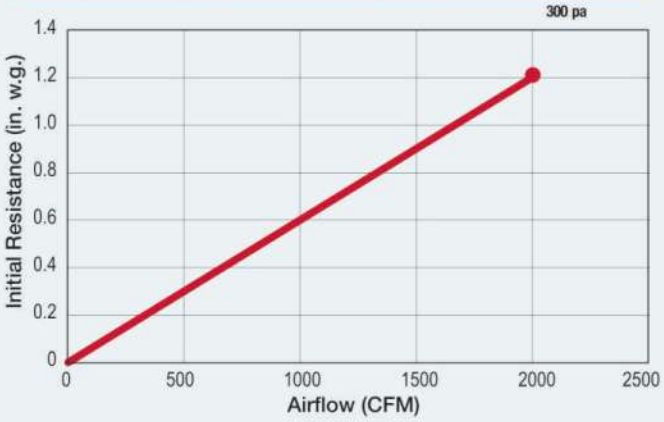
GloCel-I 24 x 24 x 11½

Initial Resistance vs. Airflow Capacity



GloCel-I HCX – 24 x 24 x 11½

Initial Resistance vs. Airflow Capacity



High Temperature GloCel-I Filters

GloCel-I filters are constructed with stainless steel or aluminum cell sides and are available for applications with continuous operating temperatures up to 750°F.

400°F (204°C)– Stainless Steel or Aluminum Cell Sides, White RTV Silicone Sealant

500°F (260°C) – Stainless Steel or Aluminum Cell Sides, Red RTV Silicone Sealant

750°F (399°C) – Stainless Steel or Aluminum Cell Sides, Black Cement

Special Construction GloCel-I Filters

GloCel-I Side Access Filters

GloCel-I filters are constructed with a flange at the top and bottom for installation into earlier models of Glo Seal side access housings. The filters are available with wood or metal cell sides.

Military and Nuclear Designs

GloCel-I filters are available to comply with military and nuclear specifications requiring special cell side material, radiation resistant media, rabbeted joints, special testing, and special packaging and marking.

GloCel - I Filters

SCAN TESTING

Leak Testing

Filters that pass the overall efficiency test may still have minute pinhole leaks. GloCel-I filters can be factory scanned to ensure there are no pinhole leaks. Scanning detects these leaks, which are repaired before filter is released for shipment.

Global uses a proprietary static scan test with a challenge aerosol of non-toxic, poly functional alcohol that leaves no residue on the media.

For pharmaceutical and those applications requiring PAO, Global offers scanning with this material using a light scattering photometer.

OVERALL EFFICIENCY TESTING

Two methods of overall efficiency testing used:

PAO Test - This has been the industry standard for many years. It is conducted using a light scattering photometer. The filter is challenged with Polyalphaolefin (PAO). By measuring the upstream and downstream concentration, filter efficiency can be calculated.

Laser Test - The filter is tested with a laser spectrometer using polystyrene latex (PSL) spheres. Filter efficiency is determined by comparing the upstream and downstream concentrations. Efficiencies down to 0.10 micrometers can be determined.

Media Testing to Meet Exacting Quality Standards

Every roll of media is carefully checked for a specific set of physical and performance characteristics, including:

- ❖ Efficiency
- ❖ Resistance
- ❖ Thickness
- ❖ Weight
- ❖ Tensile Strength
- ❖ Binder Content
- ❖ Water Repellency

Guaranteed Performance

In a modern test rig, each air filter is individually tested by well-trained Global personnel before shipment to the customer. The actual test data is indicated on the label. Each filter is also assigned a serial number, and a permanent record is kept of the materials of construction and performance.

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