GloCel - II

HEPA and ULPA Filters

- Light weight and compact
- Easy installation
- Mini-pleat design features maximum media cleaning potential
- Lowest possible pressure drop reduces operating costs
- Available in a range of cleaning efficiencies
- Available in media depth upto 150 mm

The Global GloCel-II is a unique family of mini-pleat HEPA and ULPA filters designed to meet the demanding airflow and efficiency requirements of the semiconductor, pharmaceutical, biotech, food processing, and other industries in which airborne contaminants must be carefully controlled. GloCel-II filters combine the right features to give you optimum efficiency while keeping operating costs to a minimum.

The GloCel-II filter with knife-edge cell sides was designed specifically for gel seal grid systems.

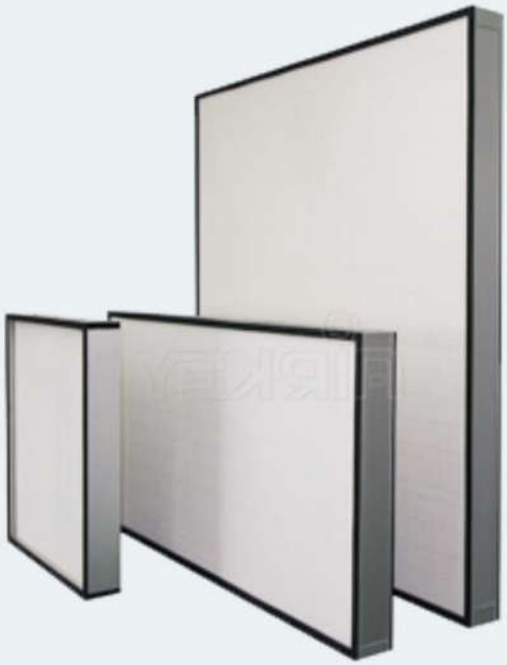
With 2″, 3″, 4″, 5″ & 6″ deep media packs, the GloCel-II mini-pleat filter design reduces resistance and provides the lowest possible pressure drop. Ribbons of media maintain pleat separation within the pack, while allowing a more compact filter depth than corrugated separators. The media pack is bonded to the sides of the extruded aluminum frame with urethane adhesive, forming an airtight seal. GloCel - II microglass media is water resistant and fire retardant.

GloCel II filters are scan tested at 99.99% efficiency with a non-DOP aerosol to ensure the filter is free from pinhole leaks. Also available is an ULPA (Ultra Low Penetration Air) model, which is additionally laser tested to 99.9995% at 0.10–0.20µm.

GloCel-II Filters

Mini-Pleat Media Pack

- Highest efficiency and lowest possible pressure drop
- Pack depths from 2″ to 6″
- 8 pleats per inch allow the greatest amount of media in the shallowest depth
- Pleat straightness to ± ¼″ - unmatched by competitors
- Requires no foreign or organic separators, such as adhesive or strings



Space Saving Media Pack

Designed to combine maximum efficiency with low pressure drop, the pleated media pack is available in sizes from 2″ to 6″ deep.

Our compact size results from a mini-pleat filter design that reduces resistance and provides the lowest possible pressure drop. Ribbons of media spaced every 1¼″ maintain separation of pleats within the pack, while allowing a more compact filter depth than corrugated separators. The separation and precision straightness of the pleats allow air to move throughout the entire depth of the filter, utilizing the full cleaning potential of the media.

Sturdy Construction

Manufactured from borosilicate microfibers, GloCel II filter glass media is water resistant and fire-retardant.

The media pack is permanently attached to an anodized extruded aluminum frame with a UL classified, urethane adhesive.

Frames are available with gasket seal, gel seal, or knife-edge seal for fluid seal grid applications.

The GloCel II filter with knife-edge cell sides was designed specifically for gel seal grid systems.

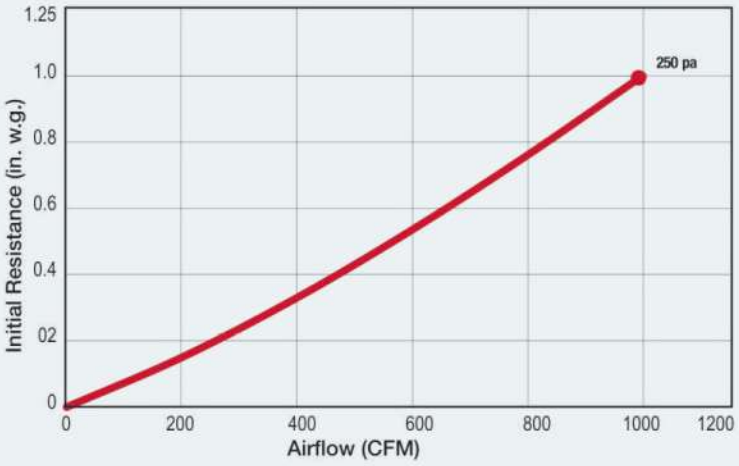
Product Information

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

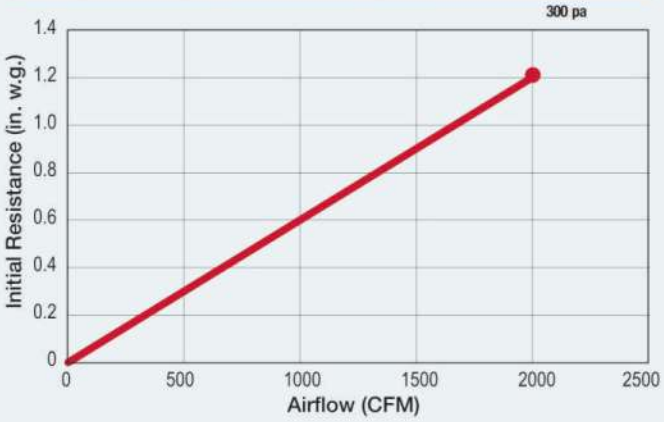
GloCel-I 24 x 24 x 11½

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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CIN: U29304TZ2022PTC040357 **GST: 33AAQCM3847E1ZC**