

TRI-PURE™ PANEL FILTERS

TECHNICAL BULLETIN



LOW PROFILE HEPA/ULPA PANEL FILTERS FOR CLEANROOM APPLICATIONS

FEATURES:

- ☑ **Low Profile**
- ☑ **Scan Tested**
- ☑ **Available in Gasket Seal Models with, 2.75", 3", 3.5" and 5.875" Frames**
- ☑ **Available in Gel Seal with 3" and 4.85" Frames**
- ☑ **Metal Faceguard**
- ☑ **45 mm to 100 mm Media Pack**
- ☑ **Anodized Extruded Aluminum Frame**
- ☑ **Quality-Controlled Manufacturing**

Tri-Dim Filter Corporation's TRI-PURE™ HEPA/ULPA Panel filters are designed for use in cleanroom applications where a compact footprint and high-efficiency filtration is needed. Applications include medical, pharmaceutical, microelectronics as well as other cleanroom disciplines.

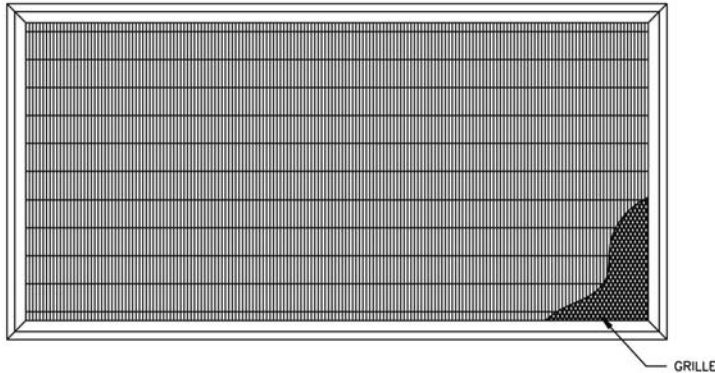
The TRI-PURE™ HEPA/ULPA Panel filter features include a low profile, from only 2.75" (70 mm) cell sides to allow for maximum space utilization in space sensitive applications.

All TRI-PURE™ HEPA/ULPA Panel filters are scan tested to meet the intent of IEST Recommended Practice IEST-RP-CC-001.3 in our cleanroom facility. Efficiencies available range from 99.99% @ 0.3 micron sized particles to 99.9995% efficiency on 0.1 to 0.2 micron sized particles, which is typically the MPPS (Most Penetrating Particle Size) for this filter in most applications.

TRI-PURE™ HEPA/ULPA Panel filters are available with either a gasket seal or gel seal as needed per application. Gasket seal filters are available with a 2.75 inch (70 mm) frame - with a 45 mm (1.8") media pack, 3 inch (76 mm) frame - with a 53 mm (2") media pack, 3.5 inch (89 mm) frame - with a 70 mm (3") media pack and a 5.875 inch frame - with a 53 mm (2"), 70 mm (3") or 100 mm (4") media pack.

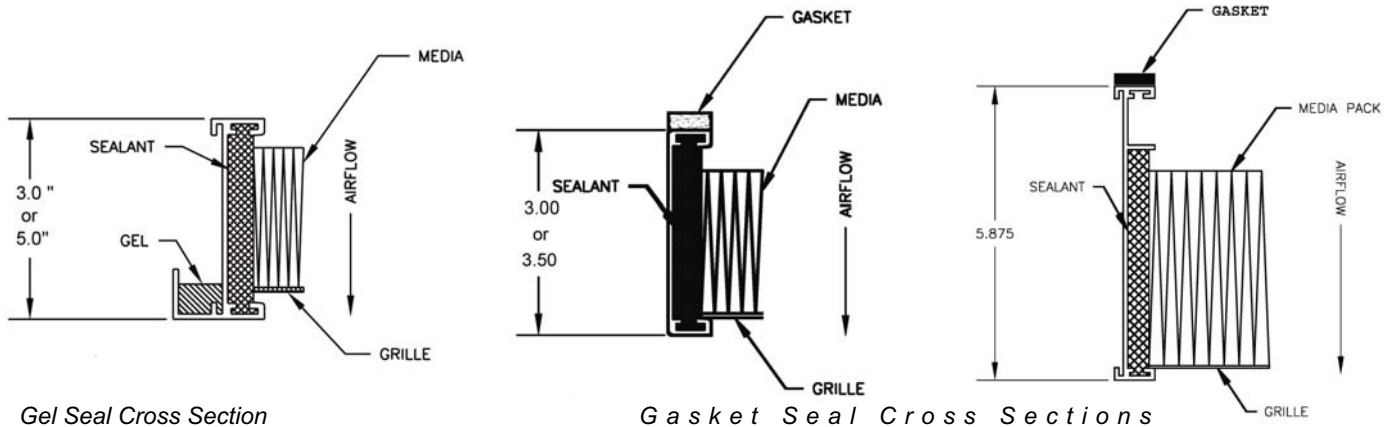
TRI-PURE™ HEPA/ULPA Panel filters are also available with a bottom load gel seal frame. Frame depths include 3 inch (76 mm) with a 53 mm (2") media pack and a 4.85 inch (123 mm) frame with a 70 mm (3") or 100 mm (4") media pack.

Tri-Dim supplies a painted expanded metal grille on the downstream side of the media pack for protection. The media pack is constructed of glass microfiber media mini-pleated into media packs from 45 mm (1.8") thick to 100 mm (4") thick. The pleats are separated and secured by an adhesive bead separator. The TRI-PURE™ separator system is precisely applied to promote uniform airflow and to eliminate media to media contact and to eliminate the fiber break-off related with different pleating methods. The TRI-PURE™ media pack is manufactured on a computer-controlled pleater for consistent and repeatable media packs.



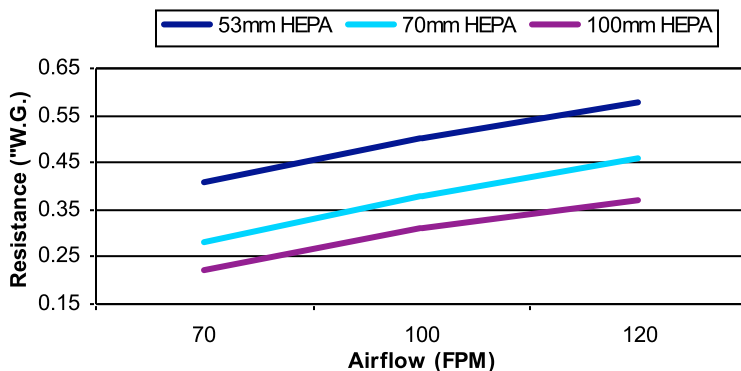
TRI-PURE™ Panel HEPA/ULPA filters are constructed of anodized extruded aluminum frames that are connected at the corners with the TRI-PURE™ Dual-Corner fastener system that produces an airtight and rigid joint. The media pack is encapsulated into the frame on all four sides with a polyurethane sealant.

Tri-Dim is proud of our quality-controlled TRI-PURE™ production facility that houses our state-of-the-art manufacturing equipment.

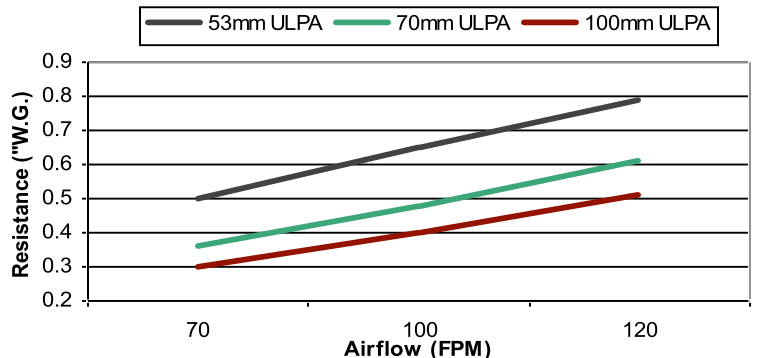


TRI-PURE™ Panel HEPA/ULPA Performance Data

HEPA Resistance Vs. AirFlow



ULPA Resistance Vs. AirFlow



Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

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TRI-DIM FILTER CORPORATION
P.O. BOX 466 • 93 INDUSTRIAL DRIVE
LOUISA, VA 23093

(540) 967-2600 • FAX: (540) 967-2835

EMAIL: info@tridim.com • Website: www.tridim.com
TOLL FREE 1-800-458-9835

Local Representation:

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