

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", 4.75" and 5.875" Frames**
- ☑ **Available in Gel Seal with 3", 3.72" and 4.85" Frames**
- ☑ **Metal Faceguard**
- ☑ **45 mm to 100 mm Media Pack**
- ☑ **Anodized Extruded Aluminum Frame**
- ☑ **Quality-Controlled Manufacturing Facility**

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.

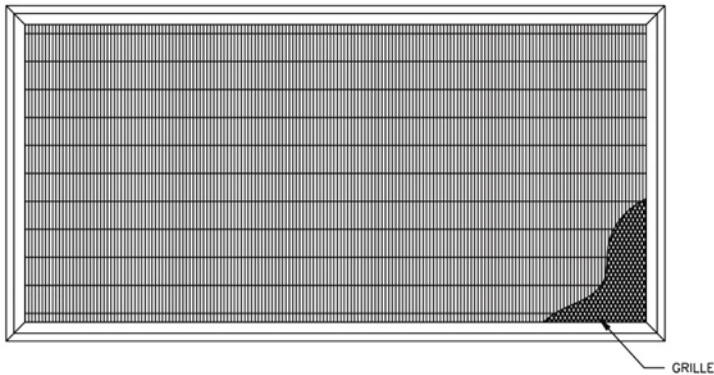
The TRI-PURE™ HEPA/ULPA Panel filter features include a low profile, from only 2.75" (70 mm) cell sides to allow for maximum space utilization in space sensitive applications.

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 4.75 inch (120 mm) and a 5.875 inch (149 mm) 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 reverse perimeter gel seal frame. Frame depths include 3 inch (76 mm) with a 53 mm (2") media pack, 3.72 inch (94 mm) with a 70 mm (3") 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.

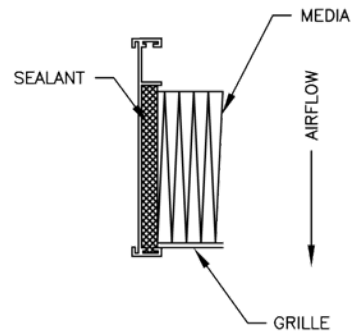
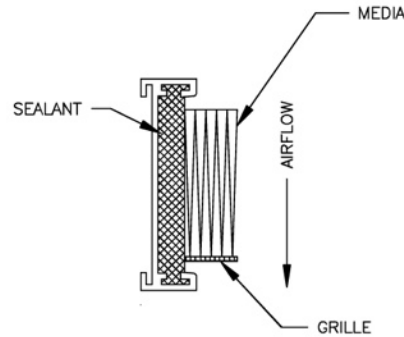
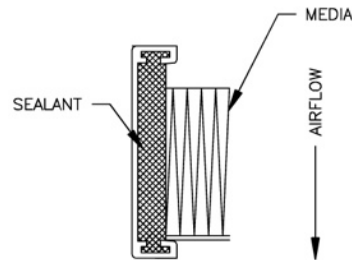
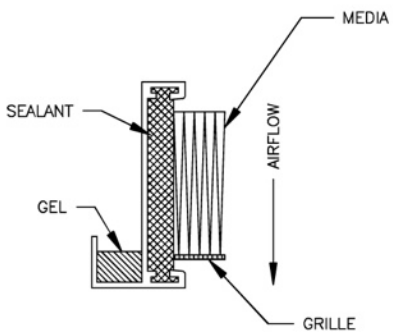
Tri-Dim is proud of our quality-controlled TRI-PURE™ production facility that houses our state-of-the-art manufacturing equipment.

Gel Seal Cross Section for 3.0", 3.72" and 4.85" Depth

Gasket Seal Cross Section for 3.0", 3.5" and 4.75" Depth

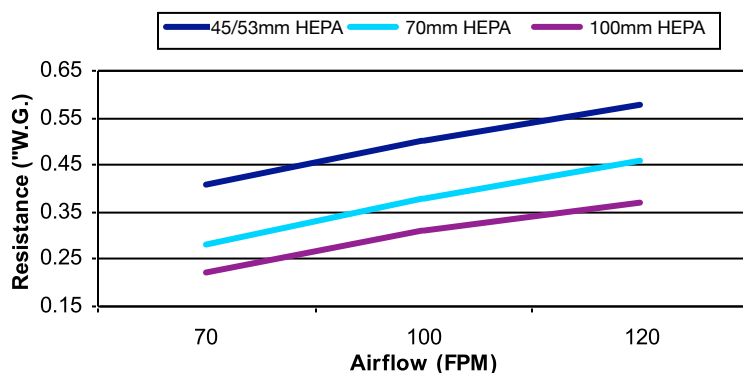
Gasket Seal Cross Section for 2.75" Depth

Gasket Seal Cross Section for 5.875" Depth

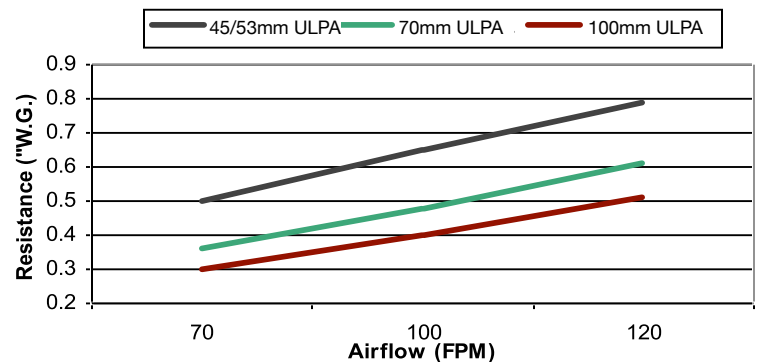


TRI-PURE™ Panel HEPA/ULPA Performance Data

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.

Tri-Dim products are manufactured to exacting criteria - there can be a ±5% variance in filter performance. Tri-Dim® and Tri-Dek® are Registered Trademarks of Tri-Dim Filter Corporation.



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