

TRI-PURE™ TERMINAL MODULE

TECHNICAL BULLETIN



LOW PROFILE, DUCTED, DISPOSABLE HEPA CEILING MODULES FOR CLEANROOM APPLICATIONS

FEATURES:

- ☑ Low Profile
- ☑ Adjustable Distribution Plate
- ☑ Scan Tested
- ☑ Inlet Collar (10" or 12")
- ☑ Designed to fit in Gasketed T-Grid System
- ☑ Metal Faceguard
- ☑ 53mm (2") Media Pack
- ☑ Anodized Extruded Aluminum Frame
- ☑ Quality-Controlled Manufacturing Facility

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

The TRI-PURE™ Terminal Module features include a low profile, only 6" (152 mm) nominal cell sides, to allow for maximum space utilization in space sensitive applications. The module comes standard with hanger supports and an adjustable distribution plate. The distribution plate is adjustable with a screwdriver from room side through an access port located in the center divider for added convenience.

All TRI-PURE™ HEPA/ULPA Panel filters are auto-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™ is available with either a 10" (254 mm) or 12" (305 mm) collar to match your application requirements. In addition, TRI-PURE™ Terminal Modules are designed to lie into a gasketed T-Grid System.

Tri-Dim supplies a painted expanded metal grille on the downstream side of the media pack. The media pack is constructed of glass microfiber media mini-pleated into media packs 53mm (2") 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.



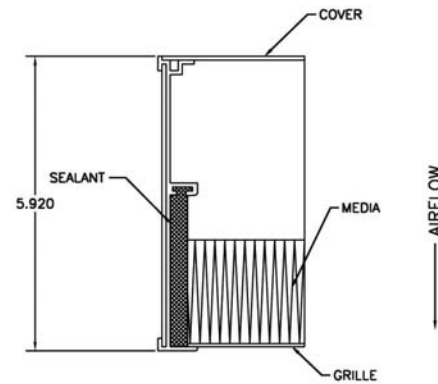
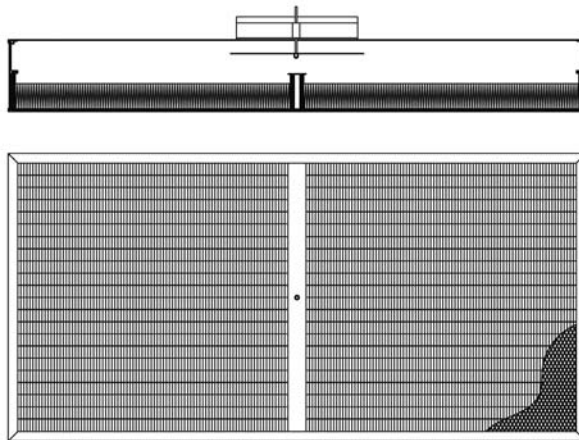
Profile view of the TRI-PURE™ Terminal Module

TRI-PURE™ Terminal Modules 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. The modules are available with optional insulation. The insulation is a 1-1/2" (38 mm) full aluminum back insulation applied to top of the housing plenum.

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



Tri-Dim's Cleanroom Production Area



FRAME CROSS-SECTION

TRI-PURE™ Terminal Module Performance Data

Nominal Dimensions H x W x D Inches (mm)	Actual Dimensions H x W x D Inches	Pack Size mm	Inlet Size Inches (mm)	Efficiency	Resistance @100 FPM "W.G. (PA)
24 x 24 x 6 (610 x 610 x 152)	23.625 x 23.625 x 5.92	53	10 (254) or 12 (305)	99.99%	0.52 (129)
24 x 48 x 6 (610 x 1219 x 152)	23.625 x 47.625 x 5.92	53	10 (254) or 12 (305)	99.99%	0.52 (129)
24 x 24 x 6 (610 x 610 x 152)	23.625 x 23.625 x 5.92	53	10 (254) or 12 (305)	99.9995%	0.68 (169)
24 x 48 x 6 (610 x 1219 x 152)	23.625 x 47.625 x 5.92	53	10 (254) or 12 (305)	99.9995%	0.68 (169)

Note: Filter Depth does not include Inlet Collar

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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