

OVERVIEW

The replaceable terminal ceiling filter module (RTM) is a permanent high efficiency unit designed to accommodate gel seal HEPA or ULPA filters. Nominal unit sizes are 24"W X 24"L X 9"D and 24"W X 48"L X 9"D. The unit is manufactured using mill finish aluminum or -optional T304 stainless steel. Standard features are top inlet collar (10" or 12" diameter), diffuser/damper, stainless steel removable face grille and static pressure port. Each unit is subjected to a factory 4-inch positive pressure W.G. leak test. Custom designed units are available for specific requirements.

APPLICATION

PGM's replaceable terminal ceiling filter modules are designed for and not limited to the following applications:

- Laminar Flow and Clean Room
 Facilities
- Pharmaceutical and Biomedical Clean Rooms
- Medical Devices
- Microelectronics
- Nanotechnology
- Surgical Suites
- Neonatal Care
- Food Processing

PERFORMANCE

A butterfly damper is provided for room side adjustment of airflow into the plenum. The damper is manually adjusted with a flat head screwdriver from the clean room ceiling area.

Airflow is distributed evenly over the face of the filter by a perforated diffuser plate located inside the module below the inlet/collar (units with the aerosol pipe option have a solid diffuser plate). Static pressure is measured through a separate static pressure port. An optional aerosol port can be provided for the injection of an aerosol agent to challenge the filter after installation in the RTM.





INSTALLATION

The RTM's are designed to fit into T-bar gasket ceiling grid system, gel-seal ceiling grid system or a solid ceiling system. A continuous perimeter knife-edgeinside the module allows a positive seal between the unit and the gel of the HEPA or ULPA filter. Room side access allows filters to be easily installed and sealed into place with aluminum or -optional T304 stainless steel retainer tabs. Retainer tabs are secured by four threaded stainless steel studs and capped with stainless steel acorn nuts. The stainless steel perforated grille protects the filter media and assists laminar air dispersal. Hand tightened acorn nuts hold the grille in place.

CONSTRUCTION

 Module is manufactured from either 0.063 aluminum-optional- 16 gauge T304 stainless steel.



- Collar is manufactured from 0.040 aluminumoptional- 20 gauge T304 stainless steel. In addition, the collar is both crimped and dimpled in order to easily connect to flex duct.
- Diffuser is manufactured out of perforated aluminum. A solid aluminum diffuser plate is used when the aerosol pipe option is requested.
- Butterfly damper comes in 8", 10" or 12" diameters.



- Welding is performed on all seams in order to prevent air leakage. Silicone caulking is also applied to the seams.
- DOP Port is used inject upstream aerosol concentration during certification/ static pressure can also be measured.
- Perforated Stainless Steel Grille fits flush with housing and is removable. (22 gauge/40% open)



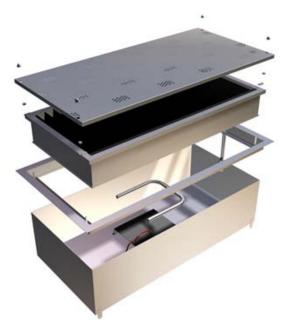


ADDERS

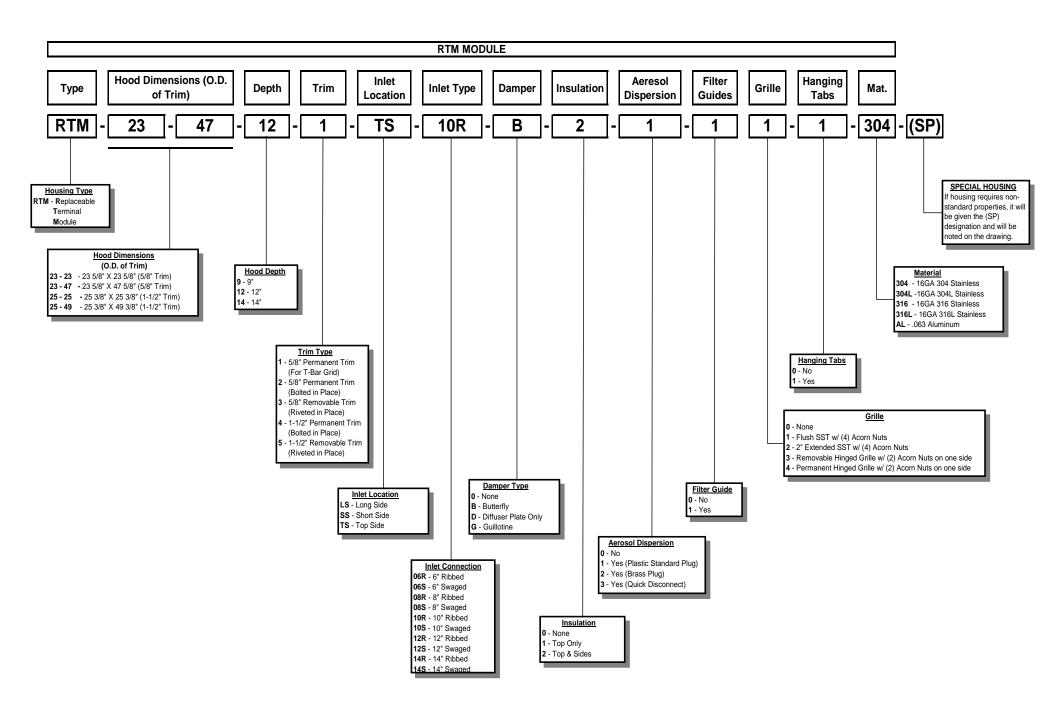
- Removable Stainless Steel
 Perimeter Trim
- Foil Back Insulation
- Hanging Tabs
- Horizontal Flow
- 2" Extended Stainless Steel Grille
- Aerosol Dispersion Quick
 Disconnect Coupling
- Aerosol Dispersion Nozzle
- Heavy Duty Butterfly Damper
- Side Inlet
- Non-standard Depth

PRODUCT SPECIFICATIONS

| Model No. | Length | Width | Depth | Description |
|-----------|---------|---------|-------|--|
| RTM1 | 23 5/8" | 23 5/8" | 9" | 5/8" permanent perimeter flange 5/8" permanent perimeter flange 1 ¹/₂ " removable trim or permanent 1 ¹/₂ " removable trim or permanent |
| RTM2 | 23 5/8" | 47 5/8" | 9" | |
| RTM3 | 25 3/8" | 25 3/9" | 9" | |
| RTM4 | 25 3/8" | 49 3/8" | 9" | |







| RTM | | | | | | | | |
|---|---------------|---|---|--|--|--|--|--|
| | Customer: | | Requested Ship Date: | | | | | |
| Purchase Order P.O.# | | | | | | | | |
| P&G Model # | Size: 2 x 2 | (Filter Dimension 21-3/4" x 20"OD |) Qty: | | | | | |
| | 2 x 4 | (Filter Dimension 21-3/4" x 44"OD |) Qty: | | | | | |
| Aluminum or Stainless Construction M | laterial: Dep | h: 9" (2" media pack) | Insulation: | | | | | |
| Type: 14ga Aluminum 16ga 304 S.S. 16 | iga 316 S.S. | 12" (2" or 4" media pa | 12" (2" or 4" media pack) None | | | | | |
| Stainless steel L-Grade: No Yes | | 14" (2", 4", or 6" media | 14" (2", 4", or 6" media pack) 2" Foil Back | | | | | |
| Damper / Inlet Size: Inlet Styl | e: | Aerosol Dispersion Pipe: (DOP) | | | | | | |
| 8" 10" Ribbed | | Not required | Yes If Yes type of plug: | | | | | |
| 12" 14" Swaged | | Plastic (Standard) | Brass Quick disconnect | | | | | |
| Damper Style: | Face | e Guard / Grille Options | : | | | | | |
| Guillotine | | Flush with 4 Acorn nuts | | | | | | |
| Minimum 12" Depth | | | | | | | | |
| Standard duty (Aluminum constru | ction) | | | | | | | |
| Heavy duty (Stainless con | - | | | | | | | |
| | , | Permanent hinged grille with 2 Acorn nuts on one side. | | | | | | |
| | | Removable hinged grille with 2 Acorn nuts on one side. | | | | | | |
| Trim Options: | | 5/8" Permanent trim (Trim and knife edge is bolted to body by manufacturer) 1/2" Permanent trim (Trim and knife edge is bolted to body by manufacturer) 1/2" Permanent trim (Trim and knife edge is bolted to body by manufacturer) | | | | | | |
| 5/8" Trim for T-Bar grid (Trim is made in to hoo | d body) | | | | | | | |
| 5/8" Removable trim (Trim is riveted by installe | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1-1/2" Removable trim (Trim is riveted by insta | ller to body) | | | | | | | |
| | | | | | | | | |
| Notes and Special Instruction: | | | | | | | | |

