



FRD-HEPA – Flat Radial Pattern HEPA Diffuser



The FRD diffuser with HEPA Filter is designed to provide low aspiration at high ventilation rates. Specially designed internal baffles and a pressure plate produce an excellent radial air pattern that allows large volumes of air to be supplied at low level velocities. The FRD-2 model introduces air in a semi-cylindrical 180° radial flow pattern, flushing a room with large volumes of clean conditioned air, minimizing mixing with contaminated air, while still allowing low room air velocities. The FRD-1 model introduces air in a 90° radial flow pattern for perimeter applications.

Applications

Hospital operating rooms, research laboratories, animal laboratories, food processing plants, pharmaceutical laboratories and protective environment rooms.

STANDARD FEATURES

- Type 304 stainless steel construction
- #4 satin polished finish
- Unique, architecturally appealing flat face design
- Internal baffles and pressure plate for radial air pattern – 90° pattern (1-way) or 180° pattern (2-way)
- 51% perforated face – 3/16" diameter holes on 60° 1/4" staggered centers
- Easily removable face secured by 1/4 turn fasteners and safety cables
- Round duct inlets for simple duct connection
- Integral earthquake hanger tabs
- Compatibility with lay-in T-bar ceiling systems and surface-mount applications
- 2" HEPA (99.99% at 0.3 microns) or 2" ULPA (99.9995% at 0.12 microns) filter
- Filters include clear anodized extruded aluminum frame with test port for damper adjustment, filter pressure drop measurement or to perform leakage (scan) tests
- Filters packed independently from diffuser for final installation in the field

OPTIONAL FEATURES

- Type 316 stainless steel construction
- Aluminum construction
- Antimicrobial epoxy powder coat finish
- Butterfly or bowtie damper – available with remote cable
- PAO challenge system with two 1/2" pressure ports for static pressure and leak testing
- HEPA-Lert filter change needed indicator lamp
- Foil backed insulation (1.5" or 2.25")
- FRD drop face

