

SSHEMI – Hemispherical Diffuser



These diffusers feature an adjustable pattern control technology – using adjustable blades which hang less than 1" below the ceiling – to deliver high volumes of low velocity air in a radial pattern. Two versions are available: with a perforated center section or with an optional adjustable face. Both versions can be configured with an extended plenum and unique frame design to accommodate a gel seal HEPA or ULPA filter. Filters can be easily removed and replaced from the face of the unit.

Applications

Ideal for Class 1,000 to 100,000 clean room environments, including labs with exhaust hoods, pharmaceutical manufacturing and biotechnology research.

STANDARD FEATURES

- Type 304 stainless steel construction
- #4 satin polished finish
- High airflow capacity (200 to 1,000 CFM)
- Specially formed adjustable blades for maximum free area and directional throw
- Curved blades direct airflow slightly below ceiling level
- 13% perforated center – 3/32" diameter holes on 60° 1/4" staggered centers
- Easily removable face for cleaning; secured by 1/4 turn fasteners and safety cables to prevent accidental dropping
- Round duct inlets for simple duct connection
- Built-in, adjustable damper disc for even air distribution and field balancing
- Integral damper with screwdriver slot adjustment is easily accessed room-side
- Integral earthquake hanger tabs
- Compatibility with lay-in t-bar ceiling systems and surface-mount applications

OPTIONAL FEATURES

- Type 316 stainless steel construction
- Aluminum construction
- Antimicrobial epoxy powdercoat finish options
- Alternate damper options: butterfly or bowtie damper – both available with remote cable
- Foil backed insulation: 1.5" or 2.25"
- 9" plenum with HEPA filter rack
- 2" HEPA (99.99% on 0.3 micrometers) or 2" ULPA (99.9995% on 0.12 micrometers) filter with room-side access (packed independently)
- Filters have clear anodized extruded aluminum frame with test port for damper adjustment, filter pressure drop measurement or leakage tests
- PAO challenge system with two 1/2" pressure ports for static pressure and leak testing
- HEPA-lert indicator lamp for filter change needed

