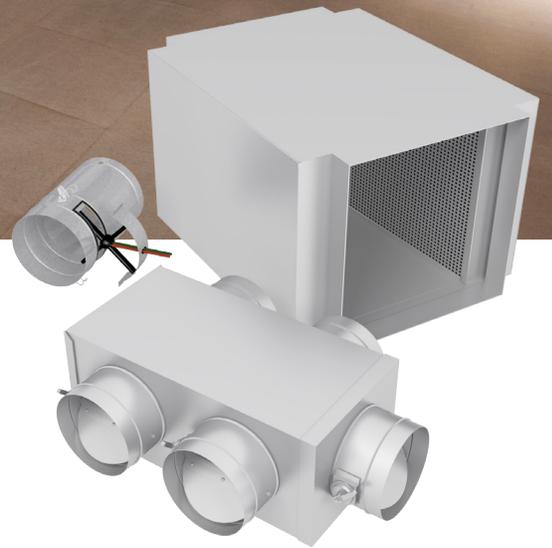


ACCESSORIES & OPTIONS

FOR TERMINAL UNITS



Filters

Filters are available for enhanced filtration of recirculated air. The MERV 3 throw away filter can be used on any fan powered terminal. The MERV 8 and MERV 13 filters require filter boots and EC motors to overcome the additional pressure drop.

- + MERV3 70-75% arrestance throw-away filter
- + MERV8 > 90% arrestance pleated filter
- + MERV13 > 98% arrestance pleated filter

Hanger Brackets (HB)

Hanger brackets are 12 gauge zinc coated steel, shipped loose for field installation with threaded hanger rods by others. Refer to the appropriate terminal unit HB submittal for recommended hanger bracket locations and quantities.

Spring Hanger Brackets (HBS)

Spring hanger brackets are intended for isolation between the terminal and the ceiling support system. Both hanger brackets and spring hanger brackets are included with this option, and shipped loose for field installation by others. Refer to the appropriate terminal unit HBS submittal for recommended spring hanger bracket locations and quantities.

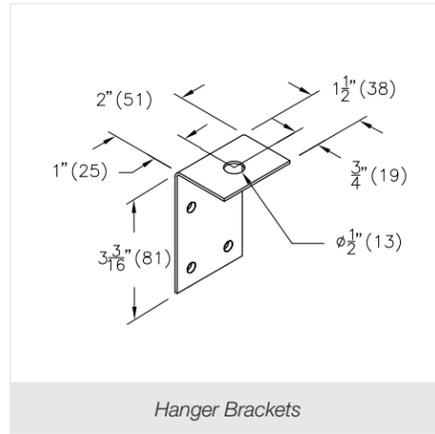
Access Doors

Several access door styles are available to suit a wide variety of configurations.

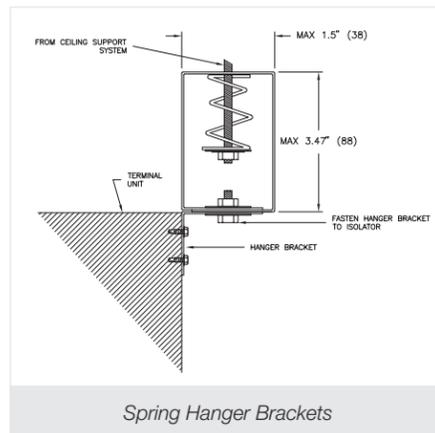
Access door fastener options include screws, snap latches, and quarter turn sash latches. Access doors are typically located on the bottom of the unit, but top and bottom access doors are available as an option.

Removable Airflow Sensor

A removable SP300 sensor is available and suggested for hospital grade jobs where the sensor needs to be removed and periodically cleaned due to buildup of lint.



Hanger Brackets



Spring Hanger Brackets



Access Doors with Snap Latches



Removable airflow sensor

Silencers

Price Absorptive Rectangular Silencers are designed to provide solutions for HVAC noise control applications by providing several variations of internal geometries. Each silencer model has been developed to maximize insertion loss while minimizing system pressure drops. Price absorptive rectangular silencers consist of a solid metal casing, minimum 26 gauge perforated metal liner, and acoustic fiberglass media.

Liner Options

PL – Polymer Film Liner

The Polymer Film Liner features polymer film wrapped around fiberglass media packed inside of the silencer. The polymer film is a reflective material that decreases the absorption of moisture and pollutants.

The PL Liner System complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + ASTM C 1071 (Physical Properties)
- + NFPA90A (Flame and Smoke)

FC – Fiberglass Cloth Liner

The Fiberglass Cloth Liner features tightly woven fiberglass cloth wrapped around fiberglass media and covered with a perforated metal liner. The porous cloth prevents shedding of fiberglass media. This liner offers optimum sound performance, equal to unlined fiberglass silencers.

The FC Liner System complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + ASTM C 1071 (Physical Properties)
- + NPFA90A (Flame and Smoke)

PKLS – Packless Silencer

Packless silencers, sometimes referred to as reactive silencers, do not contain absorptive material. Attenuation is achieved using multiple sheet and perforated metal chambers of varying design located behind a perforated metal liner.

Baffle Configurations

RL Silencers

Price RL absorptive silencers are designed for low velocity applications. This low velocity configuration provides the highest insertion loss levels across the full range of frequencies.

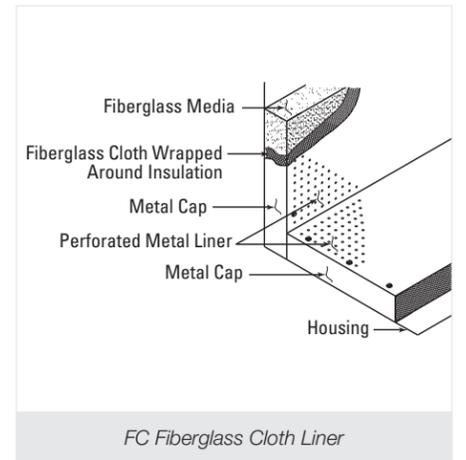
With a constant gap and smooth aerodynamic surface throughout, these silencers are best suited for low velocity applications where high insertion loss is the priority.

RH Silencers

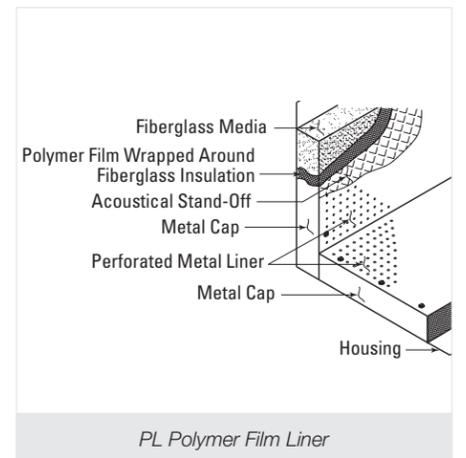
Price RH absorptive silencers are designed for high velocity applications. This high velocity configuration minimizes the pressure drop that can occur at higher velocities, while still providing high levels of insertion loss across the full range of frequencies. The RH silencer is best suited for applications where high air velocities cannot be avoided.



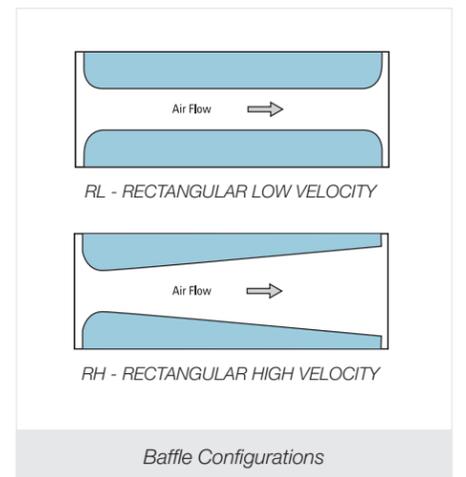
Silencer Cross Section



FC Fiberglass Cloth Liner



PL Polymer Film Liner



Baffle Configurations

Liners

FG – Fiberglass Liner

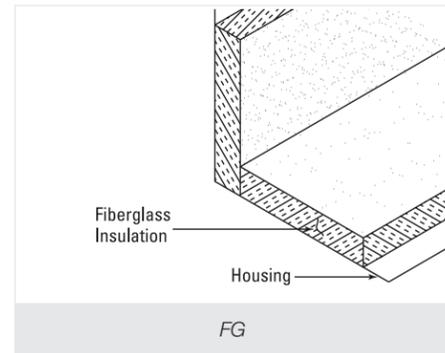
This option integrates 1.5 lb. density fiberglass insulating material to provide sound attenuation and thermal insulation.

FG insulation complies with the following industry standards and tests:

- + ASTM C 1071
- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + NFPA 90A (Flame and Smoke)

The following thicknesses are available:

- + FG50 - 1/2 in. [13] thick, R-value = 2.1
- + FG75 - 3/4 in. [19] thick, R-value = 3.2
- + FG1 - 1 in. [25] thick, R-value = 4.1



FF – Fiber Free Foam Liner

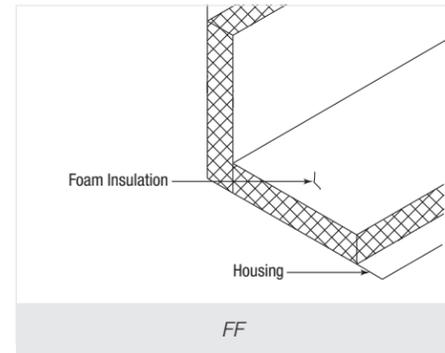
This option makes use of engineered fiber free foam insulation that totally eliminates the risk of insulation particles entering the airstream while maintaining thermal resistance and acoustic absorption. An important advantage over other liners is that scrapes or punctures will not expose fibers to the airstream due to the self-sealing nature of the foam. This foam does not absorb water, reducing the likelihood of mold or bacterial growth. The acoustic absorption of the foam insulation is equivalent to aluminum foil faced insulation.

FF insulation complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + CAN/ULC-102.2-M88 (Flame and Smoke)
- + NFPA90A (Flame and Smoke)

The following thicknesses are available:

- + FF50 - 1/2 in. (13) thick, R value = 2
- + FF - 3/4 in. (19) thick, R value = 3
- + FF1 - 1 in. (25) thick, R value = 4



FB – Foil Board Liner

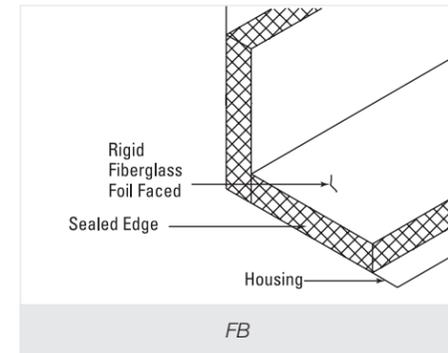
This option integrates 4 lb. density rigid fiberglass insulation with an aluminum foil facing. The aluminum foil liner is non porous, thereby protecting the insulation from moisture.

The FB liner complies with the following industry standards and tests:

- UL 181 (Air Erosion)
- UL 181 (Mold Growth and Humidity)
- UL 723 (25/50) (Flame and Smoke)
- ASTM E 84 (25/50) (Flame and Smoke)
- ASTM C 665 (Fungi Resistance)
- ASTM C 1071 (Physical Properties)

The following thicknesses are available:

- FB - 5/8 in. [16] thick, R-value = 2.6
- FB1 - 1 in. [25] thick, R-value = 4.2



SM – Solid Metal Liner

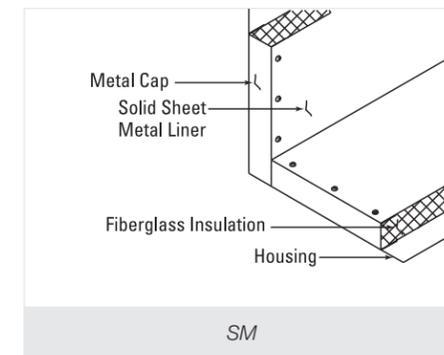
This option integrates fiberglass insulation with a solid sheet metal liner constructed from zinc-coated steel, and offers the ultimate protection against punctures and exposure of fiberglass particles to the air stream. The fiberglass insulation provides thermal resistance while the sheet metal liner protects the insulation from moisture.

The SM liner complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + ASTM C 1071 (Physical Properties)

The following thicknesses are available:

- + SM - 3/4 in. [19] thick, R value= 3.2
- + SM1 - 1 in. [25] thick, R value = 4.1



PM – Perforated Metal Liner

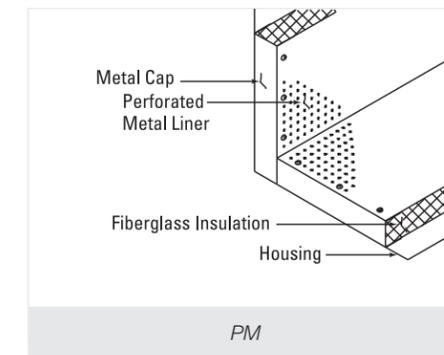
This option integrates a fiberglass insulation with a perforated metal liner constructed from coated steel. The perforated metal liner provides effective protection against damage of the insulation while maintaining some acoustic value.

The PM liner complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + ASTM C 1071 (Physical Properties)

The following thicknesses are available:

- + PM - 3/4 in. [19] thick, R value = 3.2
- + PM1 - 1 in. [25] thick, R value = 4.1



CRAF – Cleanroom Aluminum Foil Liner

This option integrates a rigid 4 lb. density fiberglass insulation with an aluminum foil facing. All edges are sealed with metal endcaps and corner angles to prevent fiberglass particles from entering the air stream. To reduce risk of liner damage during installation, sealed-in-place s-cleats are provided at the discharge collar.

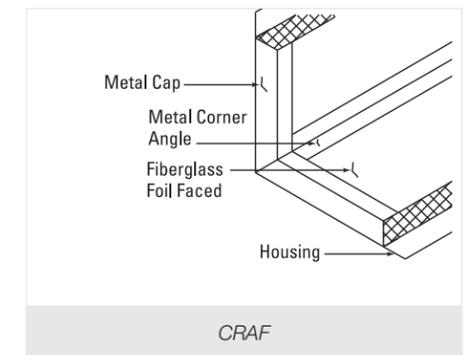
The aluminum foil liner is nonporous, thereby protecting the insulation from moisture. The smooth surface of the liner reduces the risk of micro-organisms being trapped in the material and also facilitates cleaning.

The CRAF liner complies with the following industry standards and tests:

- + UL 181 (Air Erosion)
- + UL 181 (Mold Growth and Humidity)
- + UL 723 (25/50) (Flame and Smoke)
- + ASTM E 84 (25/50) (Flame and Smoke)
- + ASTM C 665 (Fungi Resistance)
- + ASTM C 1071 (Physical Properties)

The following thicknesses are available:

- + CRAF - 5/8 in. [16] thick, R-value= 2.6
- + CRAF1 - 1 in. [25] thick, R-value = 4.2



PRICE | **TERMINAL UNITS**

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