Anemostat’s complete line of casing treatments and insulation systems provide performance solutions to meet any design requirement. We only use insulating materials that meet industry standard classifications for fire, erosion, water vapor sorption, and microbiological resistance.

1/2” DUAL-DENSITY FIBERGLASS INSULATION

Features:
• Good acoustical-thermal performance with high density skin
• R Value: 1.92 hr-ft²-°F / BTU @ 75°F
• Density: 4 lb/ft³ Skin and 1.5 lb/ft³ core

1” DUAL-DENSITY FIBERGLASS INSULATION

Features:
• High R-value with high density skin
• R Value: 3.85 hr-ft²-°F / BTU @ 75°F
• Density: 4 lb/ft³ Skin and 1.5 lb/ft³ core

1/2” FOIL LAMINATED FIBERGLASS INSULATION

Features:
• Impervious foil facing with aluminum taped edges
• Isolates glass fibers from the air stream
• R Value: 1.92 hr-ft²-°F / BTU @ 75°F
• Density: 1.5 lb/ft³ core

1” FOIL LAMINATED FIBERGLASS INSULATION

Features:
• High R-value & impervious foil facing with aluminum taped edges
• Isolates glass fibers from the air stream
• R Value: 3.85 hr-ft²-°F / BTU @ 75°F
• Density: 1.5 lb/ft³ core

FIBRE-LOK INSULATING SYSTEM

Features:
• Insulating system with high R-value
• Sheet metal channels and angles encapsulate insulation edges
• Isolates glass fibers from the air stream
• 1” Foil Laminated Ductboard Insulation
• R Value: 4.35 hr-ft²-°F / BTU @ 75°F
• Density: 4 lb/ft³ core
air terminal casing treatments

**FIBER-LESS INSULATION**
*Features:*
- Closed cell insulation – no glass fibers
- 3/8” Elastomeric Engineered Foam Insulation
- R Value: 1.5 hr-ft²-°F / BTU @ 75°F
- Density: 3 lb/ft³

**DUAL-WALL CASING TREATMENT**
*Features:*
- Puncture-proof sheet metal interior skin
- Isolates glass fibers from the air stream
- 1/2” fiberglass insulation between the walls
- R Value: 1.92 hr-ft²-°F / BTU @ 75°F
- Density: 4 lb/ft³ Skin and 1.5 lb/ft³ core

**LO-TEMP CASING TREATMENT**
*Features:*
- 1” Dual-density Fiberglass Insulation
- Insulated front panel breaks thermal bridge between inlet cylinder and casing
- R Value: 3.85 hr-ft²-°F / BTU @ 75°F
- Density: 4 lb/ft³ Skin and 1.5 lb/ft³ core

**LO-LEAK CONSTRUCTION**
Lo-Leak construction is a sealant treatment to reduce casing leakage as shown in graph 1 for all sizes 5”ø-16”ø. Extensive testing shows that leak rates are minimally dependent upon the casing size, i.e. the amount of easily sealed seams/joints, and are dictated by fixed sources of leakage – around the damper shaft seal/bearing, access door, and coil tubes. These leakage rates are not only for the basic unit, but INCLUDE double cam access doors AND 2 row hot water coils.

![Graph 1](image-url)
TABLE 1: AVAILABLE INSULATION TREATMENT OPTIONS BY PRODUCT TYPE

<table>
<thead>
<tr>
<th>Air Terminal</th>
<th>1/2” Fiberglass</th>
<th>1” Fiberglass</th>
<th>1/2” Foil Faced</th>
<th>1” Foil Faced</th>
<th>Fibre-Lok</th>
<th>Fiber-Less</th>
<th>Dual Wall</th>
<th>Lo-Temp</th>
<th>Lo-Leak</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZT Single Duct</td>
<td>Std</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>QST / EST Series Fan Powered</td>
<td>Std</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>QPT Parallel Fan Powered</td>
<td>Std</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>DU Dual Duct</td>
<td>Std</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>HVI Jet Induction</td>
<td>Std</td>
<td></td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RME Relief/Bypass</td>
<td>Std</td>
<td></td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. All Anemostat casing treatments meet applicable standards and codes related to the material for use in the application intended.
2. Tests on cotton liners have shown significant moisture gain per ASTM C1071 and corrosion test failures per ASTM C665, and have been discontinued.

CODES & STANDARDS

ASTM C1071 Standard Specification for Fibrous Glass Duct Lining Insulation
(This is a performance based standard that addresses acoustics as well as most of the performance criteria shown below)

Fire Hazard Classifications:
ASTM E84 Test Method for Surface Burning Characteristics of Building Materials
UL 723 Test for Surface Burning Characteristics of Building Materials
NFPA 90A Standard for the Installation of Air Conditioning and Ventilating Systems
NFPA 90B Standard for the Installation of Warm Air Heating and Air Conditioning Systems
NFPA 255 Standard Method of Test of Surface Burning Characteristics of Building Materials

Air Erosion
UL 181 Factory-Made Air Ducts and Air Connectors

Water Vapor Sorption

Corrosion

Microbiological Resistance
UL 181 Factory-Made Air Ducts and Air Connectors (Mold Growth and Humidity)
ASTM C1071 Standard Specification for Fibrous Glass Duct Lining Insulation (Fungi Resistance Test)
ASTM G21 Practice for Determining Resistance of Synthetic Polymer Materials to Fungi
ASTM G22 Practice for Determining Resistance of Plastics to Bacteria
ASTM 1338 Method for Determining Fungi Resistance of Insulation Materials and Facings