

Unpacking and installation

Unpacking

- Remove the components from the shipping container; be careful not to bump or scrape the PVDF insulating material on the dispersion tubes.
- Rapid-sorb dispersion panels are shipped unassembled. Do not lay loose insulated dispersion tubes across or under anything that could compress or damage the insulating material. Compressed insulating material has a reduced R-value.
- Avoid bumping or snagging the PVDF insulating material. Although PVDF is robust, rough handling can cause rips, which could negatively impact performance.

Installation

See the unpacking instructions above and the Rapid-sorb section of your specific humidifier manual.

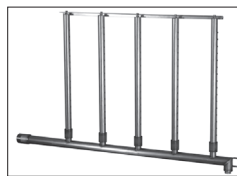
After installation and before start-up, remove the clear poly film by tearing it along the perforation. **Do not use a knife or sharp object to remove the poly film.**

Retrofitting an existing Rapid-sorb

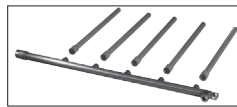
Before you begin, shut off steam to the system, and let all hot surfaces cool. See the Warning at right.

Remove the uninsulated tubes when cool to the touch

Remove the bolts that fasten the L-bracket or Z-bracket to the duct.



Remove the bracket, and pull the tubes off the header.



Install the high-efficiency tubes

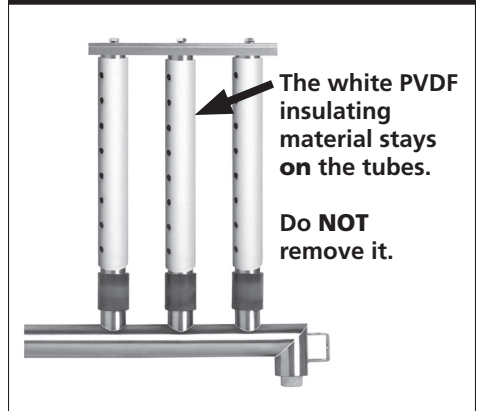
NOTE: Retrofit high-efficiency tubes are shipped with replacement couplings (see Figure 2-1) and a new L-bracket.

Install the high-efficiency tubes on the header.



More on the next page ►

Figure 1-1:
Rapid-sorb PVDF insulating material



CAUTION!

High-efficiency tubes are sleeved in clear poly film for protection during processing, shipping, and installation.



To prevent dirty insulating material, leave the clear poly film on until installation is complete.

Equally important, remove and discard the clear poly film before start-up by tearing it along the perforations.

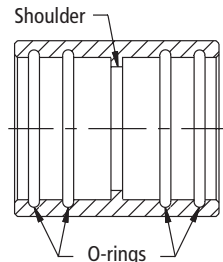
WARNING!

Steam humidification systems have extremely hot surfaces.

To avoid burns, allow humidifier, steam pipes, and dispersion assembly to cool before touching any part of the system.

Retrofitting an existing Rapid-sorb (continued)

**Figure 2-1:
Dispersion tube slip couplings**



OM-238-6

For more information

Rapid-sorb dispersion assemblies are shipped with installation instructions. See the Rapid-sorb section of the manual shipped with your humidifier.

For instructions on the High-efficiency Tubes Option for Ultra-sorb®, see the Ultra-sorb Models LV and LH Installation, Operation, and Maintenance Manual.

This document must be left with the owner.

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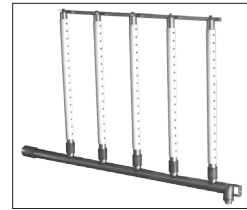
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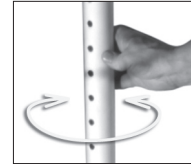
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Form No. HE-Tube-RS-Installation-0708
Part No. 890000-154 Rev A

Install the new L-bracket, making sure its flange is upstream of the dispersion tubes.



Rotate the dispersion tubes to point the tubelets across (perpendicular to) the airstream.



Fasten the L-bracket to the duct.

L-bracket,
(shown with air flow from left)



Z-bracket (older systems)



Caring for the insulating material

- If the insulating material gets torn, repair the tear with our Insulating Material Repair Kit before dispersing steam or moving air through the air handler to prevent further damage. This kit uses tested and proven PVDF as repair material; do not use other adhesives or repair methods in place of the kit.
- If the insulating material gets dirty or smudged, gently clean it with a damp cloth and a solution of soapy water or a diluted non-toxic, biodegradable cleaner/degreaser.
- Do not clean the insulating material with a pressure washer. The direct spray could cause damage.
- If using a torch in the vicinity of the dispersion panel, keep the flame away from the insulating material to avoid damage
- PVDF is inherently resistant to UV light. Indirect, low-intensity UV-C light from germicidal lamps will not cause the insulating material to degrade.
- Do not tighten mounting clamps or fasteners to any part of the dispersion tube.