ULTRA-SORB®
Steam Dispersion Panels

- Guaranteed short non-wetting distances
- Reduce wasted energy and condensate up to 85%
- Lowest installation cost
Features and benefits

GUARANTEED, SHORT NON-WETTING DISTANCES
Install within inches of downstream devices
Rapid, drip-free steam absorption means steam does not condense on downstream devices.

EFFICIENT BY DESIGN
Reduce wasted energy and condensate up to 85%
High-Efficiency Insulated Tubes significantly reduce airstream heat gain and condensate production.
(Standard on Model XV; optional on Models LV and LH.)

Higher capacities per tube increase efficiency, reduce cost
Insulated dispersion tubes produce less condensate and, therefore, have more steam available for humidification, increasing the capacity of each tube. As a result, fewer tubes may be required to meet application requirements, further lowering condensate production and heat gain while reducing resource consumption and cost.

No steam jackets; no unnecessary heat gain.
When there is no call for humidity, Ultra-sorb panels are at duct temperature while conventional jacketed steam injection systems stay hot and continue to add heat to the airstream.

MODEL XV: HIGHEST PERFORMANCE
Integral condensate management
An industry first for pressurized steam, Ultra-sorb Model XV vaporizes dispersion-generated condensate and returns pressurized condensate to the boiler without additional pumps, valves, vents, or controls.

Most efficient dispersion
Zero water waste - All condensate returns to the boiler while still hot, saving energy, water, and boiler chemicals.

Lowest heat gain - High-Efficiency Insulated Tubes and an insulated steam delivery header reduce airstream heat gain by up to 85%.

MODELS LV AND LH: MOST VERSATILE
Disperse pressurized or nonpressurized steam
Models LV and LH disperse steam generated by pressurized steam boilers or by nonpressurized steam generators such as driSteem’s GTS®, Humidi-tech®, STS®, Vaporstream®, and XT Series humidifiers.

Wide capacity range and options
• Steam capacity up to 1815 kg/h
• High-Efficiency Insulated Tubes option
• 316 stainless steel construction option

LOWEST INSTALLATION COST
Panels ship preassembled and install quickly with easy mounting, steam, and condensate connections.

ULTRA-SORB MODEL XV
Integral condensate management

ULTRA-SORB MODEL LV
Vertical tubes

ULTRA-SORB MODEL LH
Horizontal tubes
<table>
<thead>
<tr>
<th>Model XV</th>
<th>Ultra-sorb Model LV</th>
<th>Ultra-sorb Model LH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steam source</strong></td>
<td><strong>Integral condensate management</strong></td>
<td><strong>Vertical tubes</strong></td>
</tr>
<tr>
<td><strong>Humidification steam inlet:</strong></td>
<td>Pressurized boiler steam or nonpressurized steam</td>
<td>Pressurized boiler steam</td>
</tr>
<tr>
<td><strong>Steam capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Per panel:</strong></td>
<td>Per panel:</td>
<td>Per panel:</td>
</tr>
<tr>
<td>Pressurized boiler steam:</td>
<td>Up to 1815 kg/h</td>
<td>Up to 1482 kg/h</td>
</tr>
<tr>
<td>One Ultra-sorb Model XV with STS:</td>
<td>Insulated: 39 kg/h**</td>
<td>Insulated: 39 kg/h***</td>
</tr>
<tr>
<td>Up to 204 kg/h</td>
<td>Uninsulated: 36 kg/h**</td>
<td>Uninsulated: 36 kg/h***</td>
</tr>
<tr>
<td>Per tube:</td>
<td>Per tube:</td>
<td>Per tube:</td>
</tr>
<tr>
<td>19.5 kg/h*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Steam pressure</strong></td>
<td>Heat exchanger:</td>
<td>Up to 345 kPa</td>
</tr>
<tr>
<td>35 to 345 kPa</td>
<td>Humidification steam inlet:</td>
<td></td>
</tr>
<tr>
<td>35 to 345 kPa, pressurized boiler; or atmospheric, STS humidifier</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Airflow</strong></td>
<td>Horizontal</td>
<td>Horizontal</td>
</tr>
<tr>
<td><strong>High-Efficiency Insulated Dispersion Tubes</strong></td>
<td>Standard</td>
<td>Available option</td>
</tr>
<tr>
<td><strong>Header insulation</strong></td>
<td>Header inside of enclosure is insulated</td>
<td>Header enclosure provides air gap insulation</td>
</tr>
<tr>
<td><strong>Condensate drain</strong></td>
<td>Pressurized</td>
<td>Atmospheric</td>
</tr>
<tr>
<td><strong>Condensate lifting</strong></td>
<td>Vaporizes dispersion tube-generated condensate in header; returns pressurized condensate to condensate return main</td>
<td>Available pump</td>
</tr>
<tr>
<td><strong>Airstream heat gain</strong></td>
<td>Lowest</td>
<td>Low with High-Efficiency Insulated Tubes option</td>
</tr>
<tr>
<td><strong>Non-wetting distance</strong></td>
<td>Shortest; performs to published Ultra-sorb non-wetting distance</td>
<td></td>
</tr>
<tr>
<td><strong>Face dimensions</strong></td>
<td>305 x 305 to 3660 x 3660 mm</td>
<td>305 x 305 to 3660 x 3660 mm</td>
</tr>
<tr>
<td><strong>Assembly</strong></td>
<td>Pre-assembled (shipped unassembled by request or as larger dimensions require)</td>
<td></td>
</tr>
<tr>
<td><strong>Dispersion tube mounting</strong></td>
<td>Spring-loaded tubes and frame</td>
<td>Slip couplings and frame</td>
</tr>
<tr>
<td><strong>Steam / drain connections</strong></td>
<td>Inlet: Steam for humidification</td>
<td>Inlet: Steam for humidification</td>
</tr>
<tr>
<td>Inlet: Pressurized steam for heat exchanger</td>
<td>Outlet: Pressurized condensate to return main</td>
<td>Outlet: Condensate drain</td>
</tr>
<tr>
<td>Outlet: For optional header overflow (if no float switch)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Piping connections</strong></td>
<td>Same-side connections</td>
<td>Top or side steam inlet, opposite-side drain connection</td>
</tr>
<tr>
<td><strong>Optional 316 stainless steel construction, and stainless steel trap, valve, and strainer</strong></td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Notes:**
* Consult driSteem when face height is less than 432 mm.
** Consult driSteem when face height is less than 660 mm.
*** Consult driSteem when face width is less than 635 mm.
DriSteem Corporation
A subsidiary of Research Products Corporation
DriSteem U.S. operations are ISO 9001:2015 certified

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Continuous product improvement is a policy of DriSteem Corporation; therefore, product features and specifications are subject to change without notice.

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EXPECT QUALITY FROM THE INDUSTRY LEADER
For more than 45 years, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on quality is evident in the construction of the Ultra-sorb. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

For more information
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For the most recent product information visit our website:
www.dristeem.com

Your DriSteem Distributor is:

Form No. US-Product-Brochure-M-0113