A compact, lightweight design for easy handling and installation. PFA tubes, in a honeycomb pattern, are fused to a PTFE sleeve using a proprietary Nippon Pillar process.
This creates a larger cooling/heating surface area in a smaller package.
Custom designs are available for special applications. See Nippon Pillar for details.

**FEATURES**

- All PTFE wetted parts. Can operate continuously in saturated vapor.
- PFA, with its low coefficient of friction, won't scale, plate, or stain.
- Efficiency stays high. Smooth wall tubing won't trap particulate.
- All PFA tubes are molded in a class 1000 Clean Room.
- Pressure rating at various temperature:

<table>
<thead>
<tr>
<th>kgf/cm² (psi)</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 (71.42)</td>
<td>0</td>
<td>32</td>
</tr>
<tr>
<td>5.0 (71.42)</td>
<td>60</td>
<td>140</td>
</tr>
<tr>
<td>3.4 (48.57)</td>
<td>100</td>
<td>212</td>
</tr>
<tr>
<td>2.2 (31.43)</td>
<td>130</td>
<td>266</td>
</tr>
<tr>
<td>1.0 (14.28)</td>
<td>160</td>
<td>320</td>
</tr>
</tbody>
</table>

Thermal Heat Transfer Coefficient 80–180Kcal/m²Hr°C
(317.4–714.2BTU/m² Hr°C)
HEM Module type

HEW W type

HEP Panel mount type

End Connectors

How to order

HE M 91-15 S P

1 2 3 4 5 6

PILLAR

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Tokyo Office: 2-2, Uchisaiwaicho 2 chome, Chiyoda-ku, Tokyo, 100 Japan
Tel: 81-3-3508-1611  Fax: 81-3-3508-1881

How to order

1. Heat exchanger
3. Number of tubes
4. Heat transfer area (ex. 0.4m² to 8.0m²)
5. End connector material: S-SUS316, T-Titanium, A-PTFE
6. Panel material: P-Polypropylene (for HEP type only)

Note: PTFE connector is limited to be used in lower than 25gf/cm² (0.57psig) or 132°C (270°F) of saturated vapor pressure.

Specifications and dimensions are subject to change without prior notice.

The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.

CAUTION
*Read and follow the instructions on the manual before installation and operation for your safety.*