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.

Type HEST (Shell & tube)

Honeycomb tube end

FEATURES

- All PTFE wetted parts. Can operate continuously in saturated vapor.
- PFA, with it's 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 (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 (71.42)</td>
<td>0 (32)</td>
</tr>
<tr>
<td>5.0 (71.42)</td>
<td>60 (140)</td>
</tr>
<tr>
<td>3.4 (48.57)</td>
<td>100 (212)</td>
</tr>
<tr>
<td>2.2 (31.43)</td>
<td>130 (266)</td>
</tr>
<tr>
<td>1.0 (14.28)</td>
<td>160 (320)</td>
</tr>
</tbody>
</table>

Thermal Heat Transfer Coefficient 80~180Kcal/m²Hr°C
(317.4~714.2BTU/m² Hr°F)

NIPPON PILLAR PACKING CO., LTD.
HEM Module type

HEW W type

HEP Panel mount type

End Connectors

How to order HE M 91-15 S P

NIPPO N PILAR PACKING CO., LTD.

Head Office: 11-48, Nonakaminomi 2 chome, Yodogawaku, Osaka, 532 Japan
Tel.: 81-6-305-1900  Fax.: 81-6-302-3300

Tokyo Office: 2-2, Uchisaiwai cho 2 chome, Chiyodaku, Tokyo, 100 Japan
Tel.: 81-3-3508-1611  Fax.: 81-3-3508-1681

Nippon Pillar Singapore Pte, LTD: 2 Jurong East Street 21, #05-11 IWW Building, SINGAPORE 2260
TEL: 65-568-2392  Fax: 65-568-2430

2441 SE Stubb St.
Milwaukee, OR 97222
Ph: (503) 659-4198
Fx: (503) 659-4696

ISO 9001

CAUTION

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

Note: PTFE connector is limited to be used in lower than 2kgf/cm² (28.57 psi) or 123°C (259°F) of saturated vapor pressure.