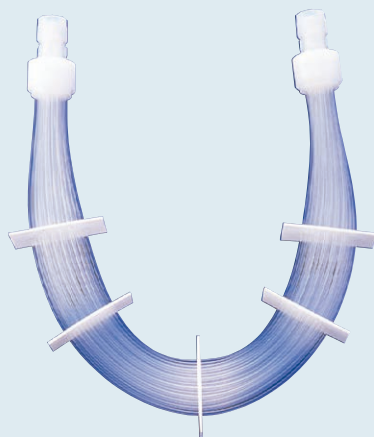
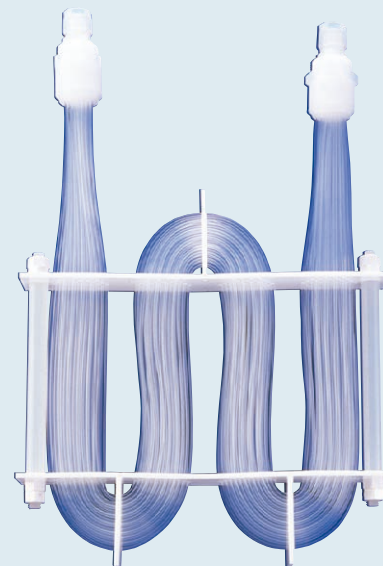


## Providing high thermal efficiency and contributing to cleanliness



Module type

Model: HEMTM



W type

Model: HEMTW



### ■ Features

#### Excellent chemical resistance and non-adhesiveness

This product consists of fluorocarbon polymers and is therefore long-lasting and resistant to most liquid chemicals. It also features superior non-adhesiveness, which means that almost no staining or scaling occurs on this product and high thermal efficiency can be maintained. Moreover, cleaning is easy.

#### No dissolution occurs and high cleanliness can be maintained

The connector is all made of fluorocarbon polymers by means of fusion bonding. The seal part uses no O-rings. With no impurities caused by O-rings, this product is best suited for the manufacturing of high-purity products such as printed circuit boards and semiconductors.

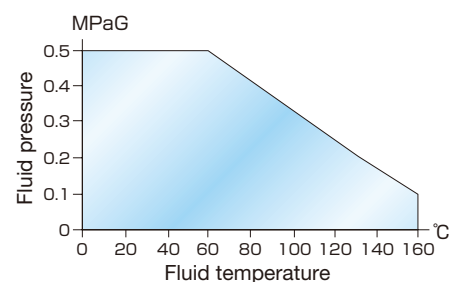


Enlarged view of the connector

#### Specifications

- ▶ Maximum operating temperature: 160°C
- ▶ Maximum operating pressure: 0.5 MPaG
- ▶ Overall heat transfer coefficient: 300 to 750 kJ/m<sup>2</sup>hr°C
- ▶ Heat exchanger connector: Super 300 Type PILLAR Fitting<sup>TM</sup>

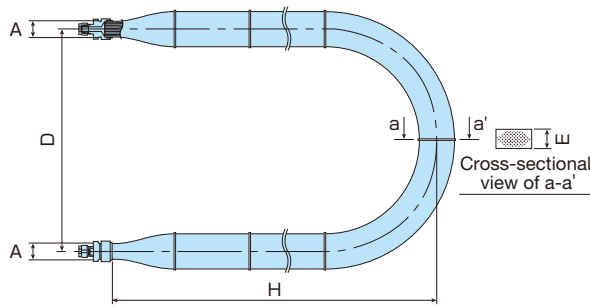
#### ■ Operating range



# Multitube Heat Exchanger

## Module type

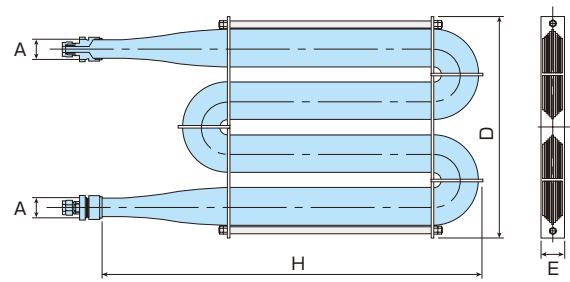
Model: HEMTM



Multiple tubes are divided into blocks by using spacers to prevent tube overlap wherever possible and improve thermal efficiency.

## W type

Model: HEMTW



A tube is bent to form a W shape to secure a large heat transfer area even in a narrow space. This is suitable for places with limited installation space.

| Number of tubes | Product No.       | Tube connection diameter |    | Mounting panel size |                      | Heat transfer area m <sup>2</sup> | Effective length mm | Mounting width D mm | Height H mm | Thickness E mm |
|-----------------|-------------------|--------------------------|----|---------------------|----------------------|-----------------------------------|---------------------|---------------------|-------------|----------------|
|                 |                   | mm                       | mm | Hole diameter A mm  | Maximum thickness mm |                                   |                     |                     |             |                |
| 37              | HEMTM 37-04A-P12  | 12×10                    |    | 41                  | 10                   | 0.4                               | 1340                | 200-600             | 556         | 50             |
|                 | HEMTM 37-04A-PW4  | 12.7×9.5                 |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 37-07A-P12  | 12×10                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 37-07A-PW4  | 12.7×9.5                 |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 37-10A-P12  | 12×10                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 37-10A-PW4  | 12.7×9.5                 |    |                     |                      |                                   |                     |                     |             |                |
| 91              | HEMTM 91-10A-P19  | 19×15.8<br>(Note)        | 56 | 10                  | 1.0                  | 1368                              | 200-600             | 570                 | 60          |                |
|                 | HEMTM 91-10A-PW6  |                          |    |                     | 1.5                  | 1915                              | 400-800             | 787                 |             |                |
|                 | HEMTM 91-15A-P19  |                          |    |                     | 2.0                  | 2462                              | 500-900             | 1032                |             |                |
|                 | HEMTM 91-15A-PW6  |                          |    |                     | 2.5                  | 3009                              | 600-1000            | 1277                |             |                |
|                 | HEMTM 91-20A-P19  |                          |    |                     | 3.0                  | 3556                              | 700-1100            | 1522                |             |                |
|                 | HEMTM 91-20A-PW6  |                          |    |                     | 3.5                  | 4103                              | 800-1200            | 1767                |             |                |
|                 | HEMTM 91-25A-P19  |                          |    |                     | 4.0                  | 4650                              | 800-1200            | 2040                |             |                |
|                 | HEMTM 91-25A-PW6  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-30A-P19  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-30A-PW6  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-35A-P19  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-35A-PW6  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-40A-P19  |                          |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 91-40A-PW6  |                          |    |                     |                      |                                   |                     |                     |             |                |
| 169             | HEMTM 169-25A-P25 | 25×22                    | 59 | 10                  | 2.5                  | 1700                              | 400-800             | 679                 | 70          |                |
|                 | HEMTM 169-25A-PW8 | 25.4×22.2                |    |                     | 3.0                  | 1994                              | 500-900             | 797                 |             |                |
|                 | HEMTM 169-30A-P25 | 25×22                    |    |                     | 3.5                  | 2289                              | 500-900             | 945                 |             |                |
|                 | HEMTM 169-30A-PW8 | 25.4×22.2                |    |                     | 4.0                  | 2583                              | 600-1000            | 1063                |             |                |
|                 | HEMTM 169-35A-P25 | 25×22                    |    |                     | 5.0                  | 3172                              | 700-1100            | 1329                |             |                |
|                 | HEMTM 169-35A-PW8 | 25.4×22.2                |    |                     | 6.0                  | 3761                              | 800-1200            | 1595                |             |                |
|                 | HEMTM 169-40A-P25 | 25×22                    |    |                     | 7.0                  | 4350                              | 800-1200            | 1890                |             |                |
|                 | HEMTM 169-40A-PW8 | 25.4×22.2                |    |                     | 8.0                  | 4939                              | 800-1200            | 2184                |             |                |
|                 | HEMTM 169-50A-P25 | 25×22                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-50A-PW8 | 25.4×22.2                |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-60A-P25 | 25×22                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-60A-PW8 | 25.4×22.2                |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-70A-P25 | 25×22                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-70A-PW8 | 25.4×22.2                |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-80A-P25 | 25×22                    |    |                     |                      |                                   |                     |                     |             |                |
|                 | HEMTM 169-80A-PW8 | 25.4×22.2                |    |                     |                      |                                   |                     |                     |             |                |

Note: HEMT\* 91-\*\*\*A-P19 = HEMT\* 91-\*\*\*A-PW6

| Product No.       | Tube connection diameter |     | Mounting panel size |                      | Heat transfer area m <sup>2</sup> | Effective length mm | Mounting width D mm | Height H mm | Thickness E mm |     |      |     |     |    |
|-------------------|--------------------------|-----|---------------------|----------------------|-----------------------------------|---------------------|---------------------|-------------|----------------|-----|------|-----|-----|----|
|                   | mm                       | mm  | Hole diameter A mm  | Maximum thickness mm |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 37-04A-P12  | 12×10                    |     | 41                  | 10                   | 0.4                               | 1375                | 340                 | 580         | 50             |     |      |     |     |    |
| HEMTW 37-04A-PW4  | 12.7×9.5                 |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 37-07A-P12  | 12×10                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 37-07A-PW4  | 12.7×9.5                 |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 37-10A-P12  | 12×10                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 37-10A-PW4  | 12.7×9.5                 |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-15A-P19  | 19×15.8<br>(Note)        | 56  | 10                  | 1.5                  | 1915                              | 570                 | 618                 | 60          |                |     |      |     |     |    |
| HEMTW 91-15A-PW6  |                          |     |                     | 2.0                  | 2462                              |                     |                     |             | 755            |     |      |     |     |    |
| HEMTW 91-20A-P19  |                          |     |                     | 2.5                  | 3009                              |                     |                     |             | 891            |     |      |     |     |    |
| HEMTW 91-20A-PW6  |                          |     |                     | 3.0                  | 3556                              |                     |                     |             | 1028           |     |      |     |     |    |
| HEMTW 91-25A-P19  |                          |     |                     | 3.5                  | 4103                              |                     |                     |             | 1165           |     |      |     |     |    |
| HEMTW 91-25A-PW6  |                          |     |                     | 4.0                  | 4650                              |                     |                     |             | 1302           |     |      |     |     |    |
| HEMTW 91-30A-P19  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-30A-PW6  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-35A-P19  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-35A-PW6  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-40A-P19  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 91-40A-PW6  |                          |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-25A-P25 |                          |     |                     | 25×22                | 59                                |                     |                     |             | 10             | 2.5 | 1700 | 650 | 533 | 70 |
| HEMTW 169-25A-PW8 |                          |     |                     | 25.4×22.2            |                                   |                     |                     |             |                | 3.0 | 1994 |     |     |    |
| HEMTW 169-30A-P25 | 25×22                    | 3.5 | 2289                | 681                  |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-30A-PW8 | 25.4×22.2                | 4.0 | 2583                | 754                  |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-35A-P25 | 25×22                    | 5.0 | 3172                | 901                  |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-35A-PW8 | 25.4×22.2                | 6.0 | 3761                | 1049                 |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-40A-P25 | 25×22                    | 7.0 | 4350                | 1196                 |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-40A-PW8 | 25.4×22.2                | 8.0 | 4939                | 1343                 |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-50A-P25 | 25×22                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-50A-PW8 | 25.4×22.2                |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-60A-P25 | 25×22                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-60A-PW8 | 25.4×22.2                |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-70A-P25 | 25×22                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-70A-PW8 | 25.4×22.2                |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-80A-P25 | 25×22                    |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |
| HEMTW 169-80A-PW8 | 25.4×22.2                |     |                     |                      |                                   |                     |                     |             |                |     |      |     |     |    |

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**Safety precaution**

● When using this product, please use correctly and pay sufficient attention to safety.

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\* The values shown on this catalog are reference values, not guaranteed values.