

: B85Hx80/1P

SSP : B85

|                                   |  | 1                     | 2                                     |
|-----------------------------------|--|-----------------------|---------------------------------------|
|                                   |  | R410A                 | Propylene Glycol - Water (30.0 mass%) |
|                                   |  | <b>43.00</b>          | <b>43.00</b>                          |
|                                   |  | kW                    |                                       |
|                                   |  | °C                    |                                       |
|                                   |  | <b>43.00</b>          |                                       |
|                                   |  | 0.298                 |                                       |
|                                   |  | <b>1.000</b>          |                                       |
|                                   |  | 4.9                   | <b>12.0</b>                           |
| (poca)                            |  | °C                    |                                       |
|                                   |  | <b>4.5</b>            |                                       |
|                                   |  | K                     |                                       |
|                                   |  | <b>5.0</b>            |                                       |
|                                   |  | 9.5                   | <b>7.0</b>                            |
|                                   |  | kg/s                  | 2.250                                 |
|                                   |  | 0.2758                |                                       |
|                                   |  | kg/s                  |                                       |
|                                   |  | 0.08231               |                                       |
|                                   |  | kg/s                  |                                       |
|                                   |  | 0.1935                |                                       |
| ( C H)                            |  | kPa                   |                                       |
|                                   |  | 15.5 ( <b>50.00</b> ) | 45.7 ( <b>50.00</b> )                 |
|                                   |  | 1                     | 2                                     |
|                                   |  | m <sup>2</sup>        | 4.68                                  |
|                                   |  | kW/m <sup>2</sup>     | 9.2                                   |
|                                   |  | K                     | 4.5                                   |
| Overall heat transfer coefficient |  | W/m <sup>2</sup> ,°C  | 2020                                  |
|                                   |  | kPa                   | 15.5                                  |
|                                   |  | kPa                   | 45.7                                  |
| - (B / )                          |  | kPa                   | 3.18                                  |
|                                   |  | kPa                   |                                       |
|                                   |  | 0.000 - 0.000         |                                       |
|                                   |  | kPa                   |                                       |
|                                   |  | 916                   |                                       |
|                                   |  | 39                    | 40                                    |
|                                   |  |                       | 80                                    |
|                                   |  | %                     | 4                                     |
|                                   |  | m <sup>2</sup> ,°C/kW | 0.018                                 |
| ( / )                             |  | mm                    | 33.0/33.0                             |
|                                   |  | mm                    | 11.5 - 18.2                           |
|                                   |  | mm                    | 20.5 - 45.8                           |
|                                   |  |                       | 214.3                                 |
|                                   |  | m/s                   | 2.54                                  |
|                                   |  | 9.70                  | 0.292                                 |
|                                   |  | m/s                   | 1.14                                  |
|                                   |  | kPa                   | 0.0746                                |
|                                   |  | K                     | 0.2                                   |
|                                   |  | °C                    |                                       |
|                                   |  | 6.0/10.7              | 6.1/10.8                              |

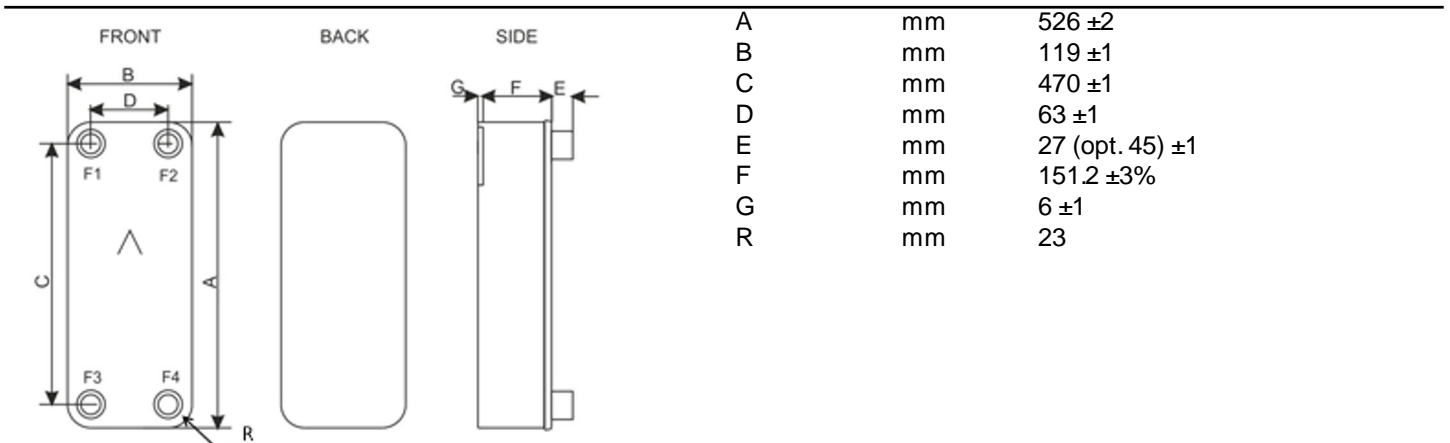
! Vaporization side maldistribution is 15 %  
 ! SWEP does not recommend to select B-type evaporator with large number of plates.

|  |  | 1                 | 2      |
|--|--|-------------------|--------|
|  |  | °C                | 4.7    |
|  |  | 9.4               |        |
|  |  | cP                | 0.156  |
|  |  | 4.65              |        |
|  |  | kg/m <sup>3</sup> | 1151   |
|  |  | 1034              |        |
|  |  | kJ/kg,°C          | 1.558  |
|  |  | 3.822             |        |
|  |  | W/m,°C            | 0.1110 |
|  |  | 0.4337            |        |



|                   | 1                    | 2       |
|-------------------|----------------------|---------|
| •                 | cP                   | 0.0125  |
| •                 | kg/m <sup>3</sup>    | 33.54   |
| •                 | kJ/kg,°C             | 0.9674  |
| •                 | W/m,°C               | 0.01112 |
| •                 | kJ/kg                | 215.0   |
| • Bub Enthalpy    | kJ/kg                | 206.8   |
| • Dew Enthalpy    | kJ/kg                | 422.0   |
| • Inlet Enthalpy  | kJ/kg                | 271.0   |
| • Outlet Enthalpy | kJ/kg                | 429.8   |
|                   | W/m <sup>2</sup> ,°C | 6410    |
|                   |                      | 6450    |

|       | 1               | 2     |
|-------|-----------------|-------|
| ( ) * | kg              | 13.02 |
| ( )   | dm <sup>3</sup> | 3.67  |
| ( )   | dm <sup>3</sup> | 3.76  |
| F1/P1 | mm              | 33    |
| F2/P2 | mm              | 33    |
| F3/P3 | mm              | 33    |
| F4/P4 | mm              | 33    |



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|                         | Unit                 | Value |
|-------------------------|----------------------|-------|
| Sweden - Landskrona     | kg CO <sub>2</sub> e | 67.1  |
| USA - Tulsa             | kg CO <sub>2</sub> e | 70.3  |
| Slovakia - Košice       | kg CO <sub>2</sub> e | 76.3  |
| Malaysia - Kuala Lumpur | kg CO <sub>2</sub> e | 106.2 |
| China - Suzhou          | kg CO <sub>2</sub> e | 182.2 |

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