H118-E Heat pump Evaporator
For increased heat pump business

Innovative | Optimised | Low hold-up volume | High heat transfer | Compact | Rapid delivery

Save $280
Per heat exchanger
On refrigerant because of the H118-E's low hold-up volume.

20%
Reduction in refrigerant
Charge compared with a traditional BPHE. This new evaporator is the ideal solution to help you meet the world’s climate and energy aspirations.
H118-E

**INTRODUCTION**
Evaporator optimised for R407C in high-efficiency commercial ground source heat pumps with capacities between 20-120 kW (68-409 kBTU/hr). The heat exchanger features innovative Micro Plate technology that improves heat transfer and reduces the amount of material used.

To meet demands for higher COPs in heat pumps, the H118-E is designed to work efficiently with close temperature approaches, while a low pressure drop on the brine side reduces the pump power and keeps the overall COP high.

The low hold-up volume reduces the refrigerant charge and offers valuable savings.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Min. working temperature</th>
<th>Max. working temperature</th>
<th>Max. working pressure</th>
<th>Hold-up volume</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>-196 °C (-320 °F)</td>
<td>200 °C (590 °F)</td>
<td>30 bar (435 psi)</td>
<td>Q1-Q2/Q3-Q4</td>
<td>5.95 kg+0.26×n (13.13lb+0.57×n)</td>
</tr>
</tbody>
</table>

n = NUMBER OF PLATES

**KEY FEATURES**
- Minimal hold-up volume: Less refrigerant charge
- Reduced pressure drop: For a more efficient heat pump
- Smaller footprint: Enabling more compact heat pumps
- Reduced CO2 footprint: Environmentally friendly with high heat transfer and minimal refrigerant charge.

**STANDARD MATERIALS**
- Cover plates: AISI 304
- Connections: AISI 304
- Plates: AISI 316
- Brazing filler: Pure copper

Other material combinations can be provided upon request. Please contact your Danfoss sales representative for more information.

**STANDARD CONNECTIONS**
The standard connections below are optimised for this product as an evaporator in heat pump systems. For other connections, please contact your Danfoss representative.

- Q3 (Refrigerant inlet): soldering 5/8", 7/8" or 1 1/8"
- Q4 (Refrigerant outlet): soldering 1 3/8", 1 5/8" or 2 1/8"
- Q1-Q2 (Brine side): External threaded 1 1/2", 2" or Victaulic 2"

**THIRD-PARTY APPROVALS**
Europe: Pressure Equipment Directive (PED). America: Underwriters Laboratory Inc (UL). The third-party approvals stated are standard for all our products. For details of other existing approvals or to discuss how we can meet your local needs, please contact your Danfoss representative.

**ACCESSORIES – STUD BOLTS**
Stud bolts on front and/or back plates for mounting support are available upon request. Please contact your Danfoss sales representative for more information.

**ACCESSIBILITY**
We will help you set up a logistics solution that will meet your needs.

**CORRESPONDING CONDENSERS**
A corresponding Micro Plate heat exchanger for condenser duties (H118-C) is also available, fully tested and ready for heat pump applications.

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