H22L-E Heat pump Condenser
For increased heat pump business

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

Save $35
Per heat exchanger
On refrigerant because of the H22L-E’s low hold-up volume.

40%
Reduction in refrigerant
Charge compared with a traditional BPHE. This new condenser is the ideal solution to help you meet the world’s climate and energy aspirations.
**INTRODUCTION**
Evaporator optimised for R407C in small high-efficiency residential ground source heat pumps with capacities between 2-8 kW (7-27 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 H22-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.

**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.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Min. working temperature</td>
<td>-196 °C (-320 °F)</td>
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<tr>
<td>Max. working temperature</td>
<td>200 °C (590 °F)</td>
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<tr>
<td>Max. working pressure</td>
<td>45 bar (650 psi)</td>
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<tr>
<td>Hold-up volume (l)</td>
<td>Q1-Q2/ Q3-Q4: 0.021×n/2 / 0.021×(n-2)/2</td>
</tr>
<tr>
<td>Weight</td>
<td>0.77 kg+0.045xn (1.70lb +0.10xn)</td>
</tr>
<tr>
<td>Max. no. of plates</td>
<td>60</td>
</tr>
</tbody>
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**STANDARD MATERIALS**
- Cover plates: AISI 304
- Plates: AISI 316
- Connections: AISI 304
- Brazing filler: Pure copper
- Other material combinations can be provided upon request. Please contact your Danfoss sales representative for more information.

**STANDARD CONNECTIONS**

- Q3 (Refrigerant inlet): soldering 1/4", 3/8" or 1/2"
- Q4 (Refrigerant outlet): soldering 1/2", 3/4" or 7/8"
- Q1-Q2 (Brine side): External threaded 3/4"

**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 (H22L-C) is also available, fully tested and ready for heat pump applications.