H118L-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 H118L-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.
**H118L-E**

**INTRODUCTION**
Evaporator optimised for R410A 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 H118L-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**

| Min. working temperature: | -196 °C (-320 °F) |
| Max. working temperature: | 200 °C (390 °F) |
| Max. working pressure: | 45 bar (650 psi) |

Hold-up volume (L): 0.151x(n/2) / 0.151x(n-2)/2

Hold-up volume (ft³): 0.005x(n/2) / 0.005x(n-2)/2

Weight: 7.94 kg + 0.26 × n (17.53 lb + 0.57 × n)

**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**
Standard connections as per below are optimised for this product as condenser in heat pump system. 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 (H118L-C) is also available, fully tested and ready for heat pump applications.

---

**Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequent changes being necessary in specifications already agreed. All trademarks in this material are the property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.**