H22-E Heat pump Condenser
For increased heat pump business

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

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.

Save $35
On refrigerant because of the H22-E’s low hold-up volume.

www.danfoss.com
**H22-E**

**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**

| n = NUMBER OF PLATES  | Min. working temperature: -196 °C (-320 °F) | Max. working temperature: 200 °C (390 °F) | Max. working pressure: 30 bar (435 psi) | Hold-up volume (l): Q1/Q2/Q3-Q4: 0.021×n/2 / 0.021×(n-2)/2 | (ft³): Q1/Q2/Q3-Q4: 0.001×n/2 / 0.001×(n-2)/2 | Weight: 0.58 kg+0.045×n (1.28 lb+0.10xn) | Max. no. of plates: 60 |

**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**

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 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 (H22-C) is also available, fully tested and ready for heat pump applications.

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