30% charge compared with a traditional BPHE. The ideal solution to meet the world’s climate and energy aspirations.
H118-C Heat pump Condenser Micro Plate Heat Exchanger

Introduction
Condenser optimised for R407C in high-efficiency commercial heat pumps with capacities between 24-150 kW. The heat exchanger features innovative Micro Plate technology that improves heat transfer and reduces the amount of material used.

Key features
- Minimal hold-up volume: Less refrigerant charge
- High heat transfer: 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 | Max. working temperature: 200 °C | Max. working pressure: 30 bar | Hold-up volume Q1-Q2/ Q3-Q4 (l): 0.13x(n/2) / 0.13x(n-2)/2 | Weight (kg): 5.94+0.26xn | Max. no. of plates: 200 |

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

Corresponding evaporator
A corresponding Micro Plate heat exchanger for evaporator duties (H118-E) is also available, fully tested and ready for heat pump applications.

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