40% charge compared with a traditional BPHE. The ideal solution to meet the world’s climate and energy aspirations.
H55L-C Heat pump Condenser
Micro Plate Heat Exchanger

Introduction
Condenser optimised for R410A in high efficiency residential heat pumps with capacities between 4-40 kW.
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 H55L-C is designed to work efficiently with close temperature approaches.
The H55L-C is approved to 48 bar to cope with high water temperature applications such as the renovation market.
The design has been verified with regards to the defrost operation cycle. The low hold-up volume reduces the refrigerant charge and offers valuable savings.

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: 48 bar | Hold up volume Q1-Q2/ Q3-Q4 (l): 0.061xn/2 / 0.061x(n-2)/2 | Weight (kg): 2.67+0.135xn | Max. no. of plates: 150 |

Standard materials
- Cover plates: AISI 304
- Connections: AISI 304
- Plates: AISI 316
- Brazing filler: Pure copper
- Other material combinations are available on 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 1/2", 5/8" or 7/8"/3/8" Q4 (Refrigerant inlet): soldering 1/4", 5/8" or 7/8" Q1-Q2 (Brine side): External threaded G 1"

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 on front and/or back plates for mounting support are available upon request. Please contact your Danfoss sales representative for further information.

Corresponding evaporator
- A corresponding MPHE for evaporator duties (H55L-E) is also available, fully tested and ready for heat pump applications.

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