Micro Plate Heat Exchanger

Xperience increased savings with new asymmetric heat exchangers

H62-CX Heat Pump Condenser

58%

Significant reduction in refrigerant and smaller CO₂ footprint, compared with a traditional BPHE
H62-CX Asymmetric Heat Pump Condenser
Micro Plate Heat Exchanger

Introduction
The H62-CX is a condenser with asymmetric design optimised for use in high-efficiency ground source or air to water heat pumps with capacities of 4-55 kW. The innovative Micro Plate technology and the asymmetric channel geometries, with different designs on the refrigerant and water sides, improve heat transfer, reduce the amount of material used and minimises pressure losses on the water side. To meet demands for higher COPs in heat pumps, the H62-CX is designed to work efficiently with close temperature approaches and minimal pressure losses.

Key features
- Minimal refrigerant hold-up volume: Smaller refrigerant charge
- High heat transfer: For a more efficient heat pump
- Minimal pressure losses on secondary side: Less pump power
- 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>Model</th>
<th>A (mm/inch)</th>
<th>Min/Max. working temperature</th>
<th>Max. working pressure</th>
<th>Hold-up volume Q1-Q2 / Q3-Q4</th>
<th>Weight</th>
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<tbody>
<tr>
<td>H62-CX</td>
<td>9.5+1.74xn / 0.37+0.07xn</td>
<td>-196 °C (-320 °F) / 200 °C (390 °F)</td>
<td>30 bar / 435 psi</td>
<td>(l): 0.092xn/2 / 0.07xn(n-2)/2 (ft³): 0.003xn/2 / 0.002xn/2</td>
<td>2.45kg+0.138xn / 5.41lb+0.32xn</td>
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Standard materials
Cover plates: AISI 304L
Plates: AISI 316L
Connections: AISI 304L
Brazing filler: Pure copper
Other material combinations are available on request. Please contact your Danfoss sales representative for more information.

Connections
Q3 (Refrigerant outlet): solder 1/4” to 7/8”
Q4 (Refrigerant inlet): solder 1/2” to 1 3/8”
Q1-Q2 (Water side): threaded external 1” or 1 1/4”
For other connections, please contact your Danfoss representative.

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 cover plates for mounting support are available on request. Contact your Danfoss sales representative for further information.