52%  
Significant reduction in refrigerant and smaller CO₂ footprint, compared with a traditional BPHE
C62L-CX Asymmetric Chiller Condenser
Micro Plate Heat Exchanger

Introduction

The C62L-CX is a condenser with asymmetric design optimised for use in R410A/R32 chillers with capacities of 6-31 (20-110 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 minimise pressure losses on the water side.

To meet demands for higher seasonal efficiency, the C62L-CX is designed to work efficiently and increase comfort in modern buildings without increasing the carbon footprint. Helping water-cooled chillers perform more efficiently, it reduces both energy consumption and environmental impact. The low hold-up volume reduces the system refrigerant charge and offers valuable savings.

Key features

- Minimal refrigerant hold-up volume: Smaller refrigerant charge
- High heat transfer: For a more efficient chiller
- Minimal pressure losses on secondary side: Less pump power
- Smaller footprint: Enabling more compact chiller
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>C62L-CX</td>
<td>11.5+1.74xn / 0.45+0.07xn</td>
<td>-196 °C (-320 °F) / 200 °C (390 °F)</td>
<td>45 bar / 650 psi</td>
<td>(l): 0.092xn/2 / 0.07x(n-2)/2  (ft³): 0.003xn/2 / 0.002xn/2</td>
<td>2.92kg+0.138xn / 6,45lb+0.32xn</td>
</tr>
</tbody>
</table>

Standard materials

Cover plates: AISI 304L
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 3/8” 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.

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