

ENGINEERING
TOMORROW



Data sheet

Micro Plate Heat Exchanger **For increased heat pump business**

H30L-C Heat pump Condenser

12%

charge compared with
a traditional BPHE. The
ideal solution to meet
the world's climate
and energy aspirations.



H30L-C Heat pump Condenser Micro Plate Heat Exchanger



Introduction	<p>Condenser optimised for R410A in high efficiency residential heat pumps with capacities between 3-25 kW. The H30-C is the ideal choice in heat pump designs where space is limited and high efficiency is required.</p> <p>The H30-C is designed to work efficiently with close temperature approaches to meet demands for higher COPs in heat pumps . The low hold-up volume reduces the refrigerant charge and offers valuable savings.</p>	
Key features	<ul style="list-style-type: none"> • 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	<p>Min. working temperature: -196 °C (-320 °F) Max. working temperature: 200 °C (390 °F) Max. working pressure: 48 bar (696 psi) Hold up volume (l): Q1-Q2/Q3-Q4: $0.027 \times n / 2$ / $0.027 \times (n-2) / 2$ (ft³): Q1-Q2/Q3-Q4: $0.001 \times n / 2$ / $0.001 \times (n-2) / 2$ Weight: $0.89 \text{ kg} + 0.073 \times n$ (1.96lb+0.16 × n) Max. no. of plates: 150</p>	
Standard materials	<p>Cover plates: AISI 304 Connections: AISI 304</p>	<p>Plates: AISI 316 Brazing filler: Pure copper</p> <p>Other material combinations are available on request. Please contact your Danfoss sales representative for more information.</p>
Standard connections	<p>Standard connections as per below are optimised for this product as condenser in heat pump system. For other connections, please contact your Danfoss representative.</p> <p>Q3 (Refrigerant outlet): soldering 1/2", 1/4", 3/8" or 5/8" Q4 (Refrigerant inlet): soldering 1/2", 5/8", 3/4" or 7/8" Q1-Q2 (Brine side): External threaded 3/4" or 1"</p>	
Third-party approvals	<p>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.</p>	
Accessories – stud bolts	<p>Stud bolts on front and/or back plates for mounting support are available upon request. Please contact your Danfoss sales representative for further information.</p>	
Accessibility	<p>We will help you set up a logistic solution that will meet your needs.</p>	

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