

Fact sheet

C212L-EZD Evaporator Micro Plate Heat Exchanger

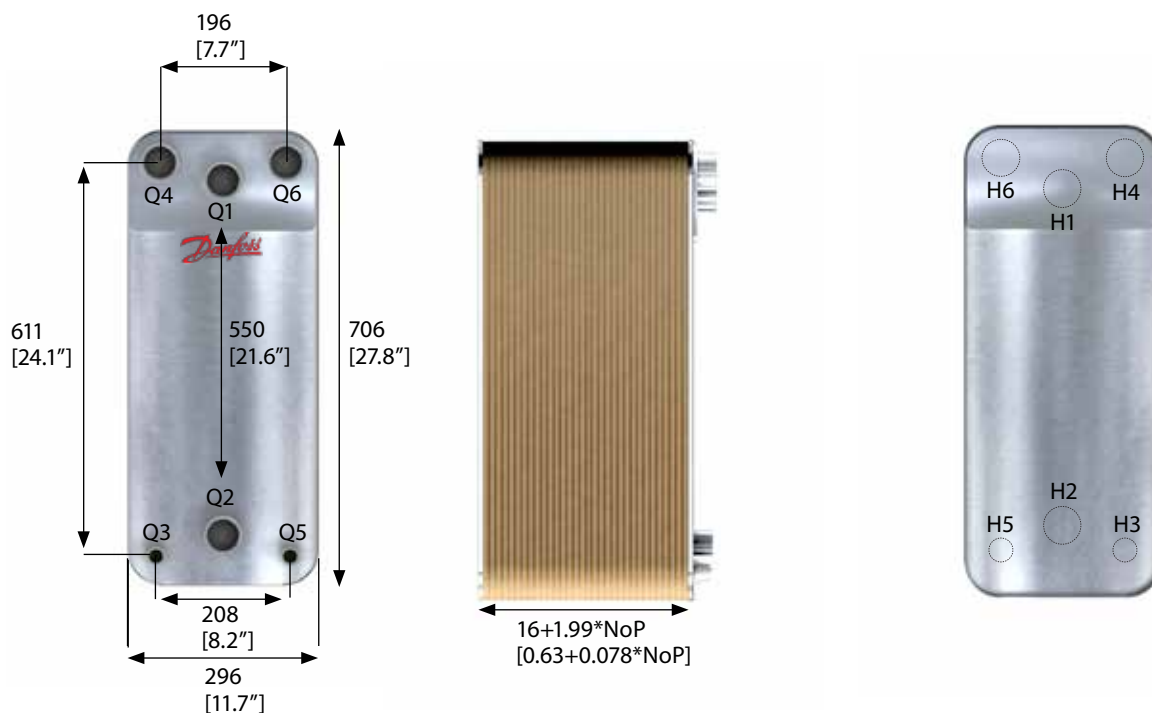



21%

lower hold-up
volume
enables significant
reduction in
refrigerant charge

C212L-EZD Evaporator

Micro Plate Heat Exchanger (MPHE)



INTRODUCTION	<p>The C212L-EZD is an evaporator optimized for R410A for use in high-efficiency chillers with capacities of 200-400 kW. The Z-pattern channel plate technology pushes the performance of heat exchangers to the limits by fully mixing the liquid and gas refrigerant through a "zigzag" flow, which increases the heat transfer coefficient. At the same time, inheriting from the dimple plate pattern of the previous generation of MPHE, C212L-EZD reduces the water side pressure drop and the amount of material used. In the reversible mode of the chiller as a condenser, C212L-EZD also has outstanding performance.</p> <p>To meet demands for higher seasonal efficiency, the C212L-EZD is designed to work efficiently and increase comfort in modern commercial buildings without increasing the carbon footprint. Helping chillers perform more efficiently, it reduces both energy costs and environmental impact. The low hold-up volume reduces the system refrigerant charge and offers valuable savings.</p>
KEY FEATURES	<ul style="list-style-type: none"> - Improved heat transfer - equals higher efficiency chillers - Reduced water side pressure drop - equals higher efficiency chillers - Minimal hold-up volume - equals less refrigerant charge - Smaller footprint - enables more compact chillers - High heat transfer and minimal refrigerant charge - equals a reduced CO2 footprint
TECHNICAL DATA n = NUMBER OF PLATES	<p>Min. working temperature: -196°C Max. working temperature: 200°C Max. working pressure: 45 bar (refrigerant side) / 25 bar (water side)* Hold-up volume: Q1-Q2 (l): 0.34xn/2/ Q3-Q4 & Q5-Q6 (l): 0.28x(n-2)/4 Weight (kg): 12.4+0.598n Max. no. of plates: 250</p> <p>* A lower pressure version (30 bar) also available.</p>
STANDARD MATERIALS	<p>Cover plates: AISI 304L Connections: AISI 304L Plates: AISI 316L 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 below are optimized for this product as an evaporator in chiller systems. For other connections, please contact your Danfoss representative, (Internal threaded, R thread (BSPT), NPT and Victaulic are also available).</p> <p>Q3-Q5 (Refrigerant inlet): soldering 3/8", 1/2", 5/8"3/4", 7/8", 1", 1 1/8", 1 3/8" or 1 5/8" Q4-Q6 (Refrigerant outlet): soldering 1/2", 5/8", 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 2" or 2 1/2" Q1-Q2 (Water side): External threaded G 1/2", G 3/4", G 1", G 1 1/4", G 1 1/2", 2", 2 1/2" or 3"</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, feet and hooks on front and/or back cover plates for mounting support and handling are available upon request. Contact your Danfoss sales representative for further information.</p>