

Data sheet

Micro Plate Heat Exchanger **Xperience increased savings with new asymmetric heat exchangers**

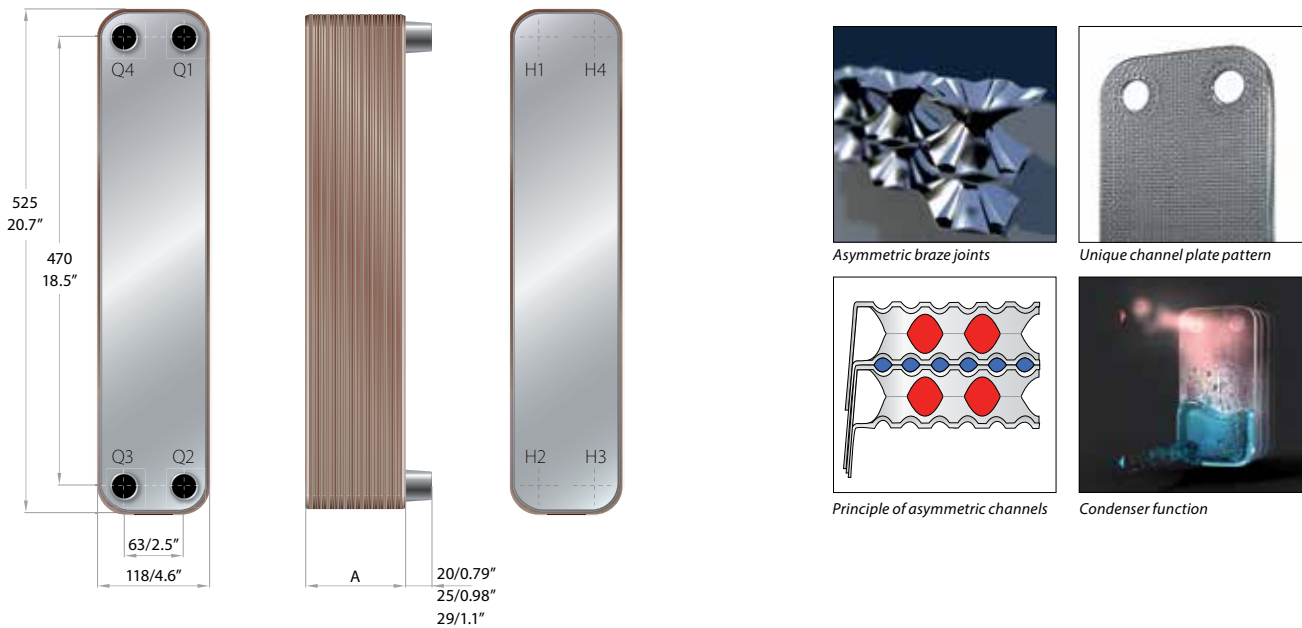
H62L-CX Heat Pump Condenser



58%

Significant reduction
in refrigerant and
smaller CO₂ footprint,
compared with a
traditional BPHE

H62L-CX Asymmetric Heat Pump Condenser Micro Plate Heat Exchanger



Introduction

The H62L-CX is an R410A/R32 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 minimise pressure losses on the water side. To meet demands for higher COPs in heat pumps, the H62L-CX is designed to work efficiently with close temperature approaches and minimal pressure losses. The H62L-CX is approved up to 45 bar for R410A/R32 and to cope with high water temperature applications such as the renovation market. The low hold-up volume on the refrigerant side reduces the refrigerant charge and offers valuable savings.

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

n = number of plates
max. No. Of plates: 150

Model	A (mm/inch)	Min/Max. working temperature	Max. working pressure	Hold-up volume Q1-Q2 / Q3-Q4	Weight
H62L-CX	11.5+1.74xn / 0.45+0.07xn	-196 °C (-320 °F) / 200 °C (390 °F)	PED: 45 bar UL: 650 psi (45 bar)	(l): 0.092xn/2 / 0.07x(n-2)/2 (ft ³): 0.003xn/2 / 0.002xn/2	2.92kg+0.145xn / 6.45lb+0.32xn

Standard materials

Cover plates: AISI 304L
Connections: AISI 304L
Other material combinations are available on request. Please contact your Danfoss sales representative for more information.

Plates: AISI 316L
Brazing filler: Pure copper

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.

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