Micro Plate Heat Exchanger

For increased heat pump business

H62L-C Heat Pump Condenser

40% charge compared with a traditional BPHE. The ideal solution to meet the world’s climate and energy aspirations.

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Introduction
The H62L-C is a condenser optimised for R410A for use in high-efficiency heat pumps with capacities of 4-40 kW. The heat exchanger features innovative Micro Plate technology that improves heat transfer and reduces the amount of material used. To meet demands for higher COPs in heat pumps, the H62L-C is designed to work efficiently with close temperature approaches. The H62L-C is approved to 48 bar to cope with high water temperature applications such as the renovation market. The design has been verified with regards to the defrost operation cycle. The low hold-up volume reduces the refrigerant charge and offers valuable savings.

Key features
- 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
\( n = \text{number of plates} \)
- Min. working temperature: -196 °C
- Max. working temperature: 200 °C
- Max. working pressure: 48 bar
- Hold up volume Q1-Q2/ Q3-Q4 (l): 0.066xn/2 / 0.066x(n-2)/2
- Weight (kg): 3.35+0.145x

Standard materials
- Cover plates: AISI 304L
- Plates: AISI 316L
- Brazing filler: Pure copper
Other material combinations are available on request. Please contact your Danfoss sales representative for more information.

Standard connections
The standard connections below are optimised for this product in condenser duties in heat pump systems. For other connections, please contact your Danfoss representative:
- Q3 (Refrigerant outlet): soldering 1/4" or 3/8" or 5/8"
- Q4 (Refrigerant inlet): soldering 1/2" or 7/8"
- Q1-Q2 (Water side): External threaded G 1 1/4"

Third part 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 plates for mounting support are available upon request. Please contact your Danfoss sales representative for further information.

Corresponding evaporator
A corresponding MPHE for evaporator duties (H62L-E) is also available, fully tested and ready for heat pump applications.

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