



# H55L-C Heat pump Condenser For increased heat pump business

Innovative | Optimised | Low hold-up volume | High heat transfer | Compact | Rapid delivery



**Save \$70**

**Per heat exchanger**

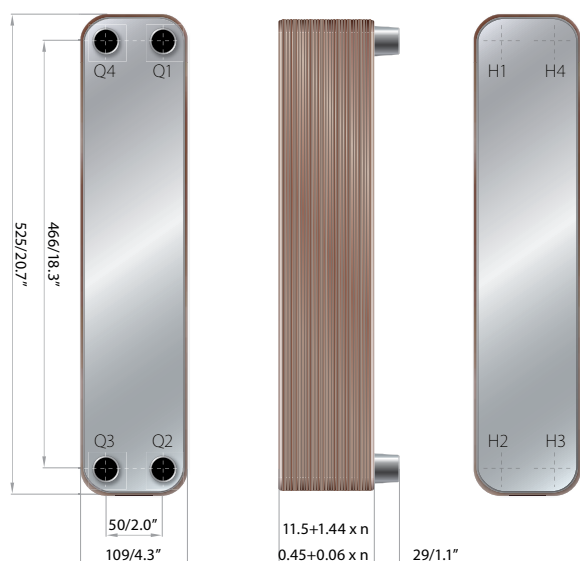
On refrigerant because the H55L-C's low hold-up volume.

**40%**

**Reduction refrigerant**

Charge compared to traditional BPHE. This new evaporator is the ideal solution to help you meet the world's climate and energy aspirations.

# H55L-C



## INTRODUCTION

Condenser optimised for R410A in high efficiency residential heat pumps with capacities between 4-40 kW (13-136 kBtu/hr). 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 H55L-C is designed to work efficiently with close temperature approaches. The H55L-C is approved to 48 bar (696 psi) 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 CO<sub>2</sub> footprint: Environmentally friendly with high heat transfer and minimal refrigerant charge.

## TECHNICAL DATA

n = NUMBER OF PLATES

Min. working temperature: -196 °C (-310 °F)  
 Max. working temperature: 200 °C (390 °F)  
 Max. working pressure: 48bar (696psi) for PED, 45bar (650psi) for UL  
 Hold up volume (l): Q1-Q2/ Q3-Q4 (l): 0.061xn/2 / 0.061x(n-2)/2  
 (ft<sup>3</sup>): Q1-Q2/ Q3-Q4: 0.002xn/2 / 0.002x(n-2)/2  
 Weight: 2.67 kg+0.135xn (5.89lb+0.30xn)      Max. no. of plates: 150

## STANDARD MATERIALS

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

## STANDARD CONNECTIONS

Standard connections as per below are optimised for this product as condenser in heat pump system. For other connections, please contact your Danfoss representative.

Q3 (Refrigerant outlet): soldering 1/4", 3/8" or 5/8"  
 Q4 (Refrigerant inlet): soldering 1/2", 5/8" or 7/8"  
 Q1-Q2 (Brine side): External threaded 1"



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

## ACCESSIBILITY

We will help you set up a logistic solution that will meet your needs.

## CORRESPONDING CONDENSERS

A corresponding MPHE for evaporator duties (H55L-E) is also available, fully tested and ready for heat pump applications

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