



# H118-C Heat pump Condenser

## For increased heat pump business

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

**Save \$420**

**Per heat exchanger**

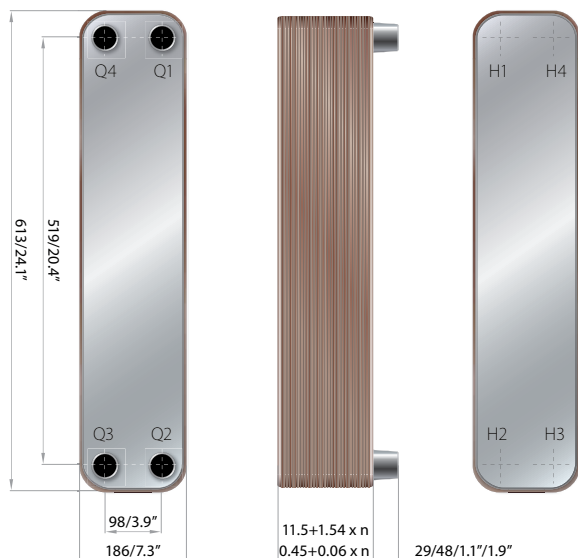
On refrigerant because of the H118-C's low hold-up volume.

**30%**

**Reduction in refrigerant**

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

# H118-C



## INTRODUCTION

Condenser optimised for R407C in high-efficiency commercial heat pumps with capacities between 24-150 kW (82-512 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 H118-C is designed to work efficiently with close temperature approaches. 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 (-320 °F)  
 Max. working temperature: 200 °C (390 °F)  
 Max. working pressure: 30 bar (435 psi)  
 Hold-up volume (l): Q1-Q2/ Q3-Q4: 0.13xn/2 / 0.13x(n-2)/2  
 (ft<sup>3</sup>): Q1-Q2/ Q3-Q4: 0.005xn/2 / 0.005x(n-2)/2  
 Weight: 5.94 kg+0.26xn (13.11lb+0.57xn)      Max. no. of plates: 200

## STANDARD MATERIALS

Cover plates: AISI 304      Plates: AISI 316  
 Connections: AISI 304      Brazing filler: Pure copper  
 Other material combinations can be provided upon 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 5/8", 7/8" or 1 1/8"  
 Q4 (Refrigerant inlet): soldering 1 3/8", 1 5/8" or 2 1/8"  
 Q1-Q2 (Brine side): External threaded 1 1/2", 2" or Victaulic 2"



## 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 more information.

## ACCESSIBILITY

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

## CORRESPONDING CONDENSERS

A corresponding Micro Plate heat exchanger for evaporator duties (H118-E) is also available, fully tested and ready for heat pump applications.

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