MAKING MODERN LIVING POSSIBLE

C118-C Condenser
For increased chiller profits

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

20%

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.

Save $120

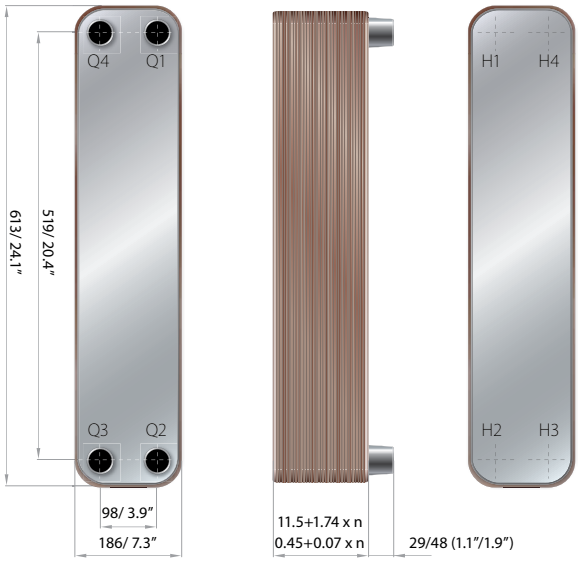
per heat exchanger

on refrigerant because of the C118-C's low hold-up volume.

www.danfoss.com

C118-C

Micro Plate Heat Exchanger



INTRODUCTION

The C118-C is a condenser optimised for R407C for use in high-efficiency chillers with capacities of 40-200 kW/10-55 Rt. The heat exchanger features innovative Micro Plate technology that improves heat transfer and reduces the amount of material used.

To meet demands for higher seasonal efficiency, the C118-C is designed to work efficiently and increase comfort in modern 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.

KEY FEATURES

- Minimal hold-up volume: Less refrigerant charge.
- High heat transfer: For more efficient chillers.
- Smaller footprint: Enabling more compact chillers.
- Reduced CO_2 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: Q1-Q2/ Q3-Q4 (l): 0.151×n/2 / 0.151×(n-2)/2
(ft^3): 0.005×n/2 / 0.005×(n-2)/2
Weight: 5.95kg+0.26×n (13.13lb+0.57×n)
Max. no. of plates: 200

STANDARD MATERIALS

Cover plates: AISI 304
Connections: AISI 304
Plates: AISI 316
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 chiller system. For other connections, please contact your Danfoss representative.

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

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 cover plates for mounting support are available upon request. Contact your Danfoss sales representative for further information.

ACCESSIBILITY

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

CORRESPONDING EVAPORATORS

A corresponding Micro Plate heat exchanger for evaporator duties (C118-E) is also available.

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