



H22-C Heat pump Condenser

For increased heat pump business

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

Save \$35

Per heat exchanger

On refrigerant because of the H22-C's low hold-up volume.

40%

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.

H22-C



INTRODUCTION The H22-C is a condenser optimised for R407C in small high-efficiency residential heat pumps with capacities between 2-10 kW (7-34 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 H22-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 CO₂ 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: 0.024xn/2 / 0.024x(n-2)/2
 (ft³) Q1-Q2/ Q3-Q4: 0.001xn/2 / 0.001x(n-2)/2

Weight: 0.58 kg+0.045xn (1.28lb +0.10 x n) Max. no. of plates: 60

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

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

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

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 (H22-E) is also available, fully tested and ready for heat pump applications.

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