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Data sheet

Micro Plate Heat Exchanger
For increased heat pump business

H62-E Heat Pump Evaporator



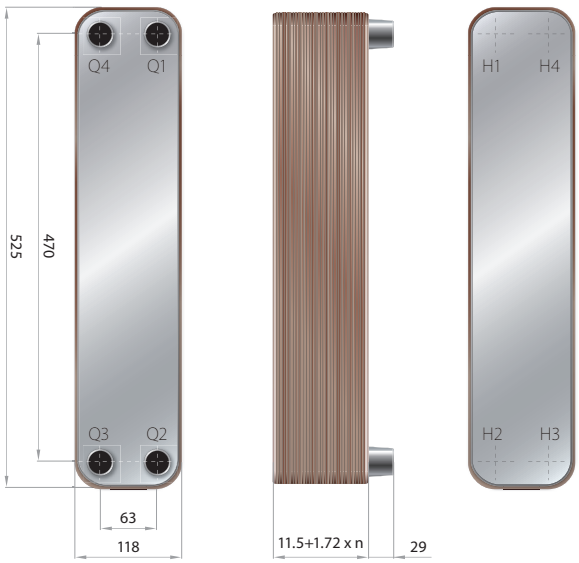
40%

charge compared with a traditional BPHE. The ideal solution to meet the world`s climate and energy spirations.

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H62-E Heat Pump Evaporator
Micro Plate Heat Exchanger



Introduction

The H62-E is an evaporator optimised for R407C for use in high-efficiency ground source (brine/water) heat pumps with capacities of 3-30 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 H62-E is designed to work efficiently with close temperature approaches, while a low pressure drop on the brine side reduces the pump power and keeps the overall COP high.

The low hold-up volume reduces the refrigerant charge and offers valuable savings.

Key features

- Minimal hold up volume: Less refrigerant charge
- Reduced pressure drop: 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
Max. working temperature: 200 °C
Max. working pressure: 30 bar
Hold up volume Q1-Q2/ Q3-Q4 (l): 0.081×n/2 / 0.081×(n-2)/2
Weight (kg): 2.92+0.145n

STANDARD MATERIALS

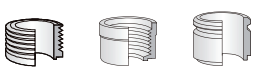
Cover plates: AISI 304L
Connections: AISI 304L
Plates: AISI 316L
Brazing filler: Pure copper

Other matieral combinations can be provided upon request. Contact Danfoss sales representative for more information.

Standard connections

The standard connections below are optimised for this product in evaporator duties in heat pump systems. For other connections, please contact your Danfoss representative.

Q3 (Refrigerant inlet): soldering 1/2" or 5/8"
Q4 (Refrigerant outlet): soldering 3/4" or 7/8" or 1 3/8"
Q1-Q2 (Brine 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. Contact Danfoss sales representative for further information.

Corresponding condensers

A corresponding MPHE for condenser duties (H62-C) is also available, fully tested and ready for heat pump applications.

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