

ENGINEERING
TOMORROW

Danfoss

Data sheet

Micro Plate Heat Exchanger

Save you time and money

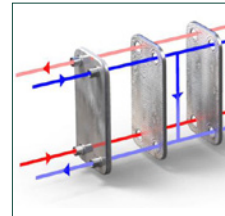
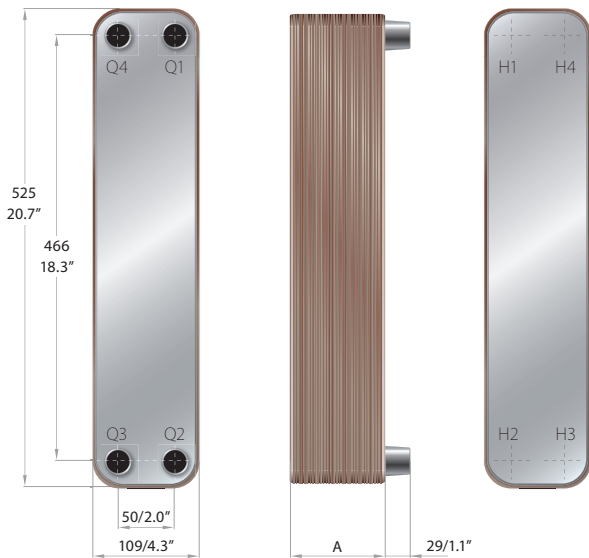
D55

24/7

ordering from stock
quick and easy
deliveries from stock.

D55 - increased flexibility and savings

Micro Plate Heat Exchanger



Flow design in MPHE



Flexible two-in-one connection



Innovative micro plate design



Scan QR code for more technical information and code numbers

Introduction

The new Danfoss D55 is an excellent route to increased savings. With a robust and resource-efficient design, the D55 is designed to operate efficiently year after year in a whole range of applications. The innovative D55 channel plate pattern makes it the best heat exchanger on the market, significantly reducing energy consumption and lowering CO₂ emissions. The D55 has a capacity of 10-65 kW and is suitable for evaporators, condensers and one-phase applications. Thanks to the two-in-one connection it is always easier to install. The D55 is the natural choice for any application.

Key features

- Standard- and high-pressure designs make it the ideal solution for any application or refrigerant
- Two-in-one connection for easy installation
- With innovative micro plate channel plate pattern for higher heat transfer to minimize weight and refrigerant charge

Easy installation

A D55 heat exchanger is always easier to use. Every product is delivered with Danfoss two-in-one connections, which allow both threading and soldering. The universal soldering connections are suitable for both customary/imperial and metric piping.

Technical data

The D55 product is available in different configurations:

D55: approved to 30 bar

D55-H: Special (high-theta) pattern for high heat transfer

D55L-E: High-pressure Evaporator, approved to 45 bar

D55-E: Evaporator with refrigerant distributor

D55L: High-pressure, approved to 45 bar

D55L-H: High-pressure, high-theta, approved to 45 bar

| Model | A (mm/inch) | Min/Max. working temperature | Max. working pressure | Hold-up volume Q1-Q2 / Q3-Q4 | Weight |
|--------|---------------------------|------------------------------|------------------------|---|--------------------------------------|
| D55 | 9.5+1.74xn / 0.37+0.07xn | -196 °C/(-320 °F) | 30 bar / 435 psi | (l): 0.076xn/2 / 0.076x(n-2)/2 | 2.32kg+0.135xn / 5.12lb+0.30xn |
| D55-E | | | | (ft ³): 0.003xn/2 / 0.003x(n-2)/2 | |
| D55-H | 9.5+1.44xn / 0.37+0.06xn | / | 45 bar / 650 psi | (l): 0.061xn/2 / 0.061x(n-2)/2 | 2.67kg+0.135xn / 5.89lb+0.30xn |
| D55L | 11.5+1.74xn / 0.45+0.07xn | 200 °C/(390 °F) | | (ft ³): 0.002xn/2 / 0.002x(n-2)/2 | |
| D55L-E | | | | (l): 0.076xn/2 / 0.076x(n-2)/2 | |
| D55L-H | 11.5+1.44n / 0.45+0.06n | | | (ft ³): 0.002xn/2 / 0.002x(n-2)/2 | |

Standard materials

Cover plates: AISI 304L

Connections: AISI 304L

Other material combinations are available on request. Please contact your Danfoss sales representative for more information.

Plates: AISI 316L

Brazing filler: Pure copper

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.

Tech support

A number of easy-to-use online tools and the advanced heat exchanger software Hexact make it easier than ever to choose the right heat exchanger.

Availability

A new logistics set-up with a full standard product range allows fast and reliable off-the-shelf deliveries. To see the full list of available standard products and configurations, use the QR code on the first page or contact your local sales representative.

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