

ENGINEERING  
TOMORROW

*Danfoss*

Data sheet

# Micro Plate Heat Exchanger

## **Save you time and money**

D55

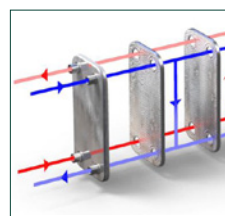
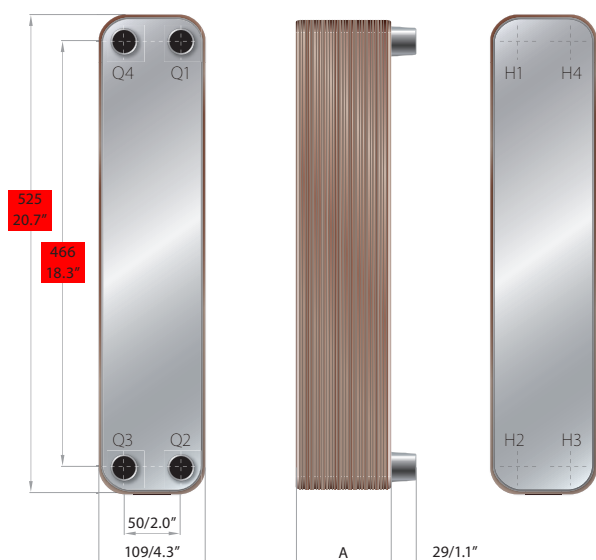
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# D55 - increased flexibility and savings

## 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 CO<sub>2</sub> 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

n = number of plates

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<br>/<br>435 psi | (l): 0.076xn/2 / 0.076x(n-2)/2<br>(ft³): 0.003xn/2 / 0.003x(n-2)/2 | 2.32kg+0.135xn<br>/<br>5.12lb+0.30xn |
| D55-H  |                           |                              |                        | (l): 0.061xn/2 / 0.061x(n-2)/2<br>(ft³): 0.002xn/2 / 0.002x(n-2)/2 |                                      |
| D55L   | 11.5+1.74xn / 0.45+0.07xn | 200 °C/(390 °F)              | 45 bar<br>/<br>650 psi | (l): 0.076xn/2 / 0.076x(n-2)/2<br>(ft³): 0.003xn/2 / 0.003x(n-2)/2 | 2.67kg+0.135xn<br>/<br>5.89lb+0.30xn |
| D55L-E |                           |                              |                        | (l): 0.061xn/2 / 0.061x(n-2)/2<br>(ft³): 0.002xn/2 / 0.002x(n-2)/2 |                                      |
| D55L-H | 11.5+1.44n / 0.45+0.06n   |                              |                        |                                                                    |                                      |

### Standard materials

Cover plates: AISI 304L

Connections: AISI 304L

Plates: AISI 316L

Brazing filler: Pure copper

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

### 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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