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+7 (495) 956-62-18

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Data sheet

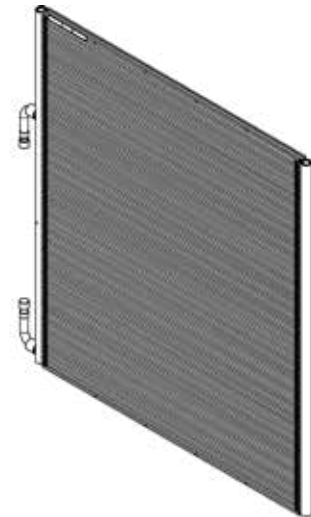
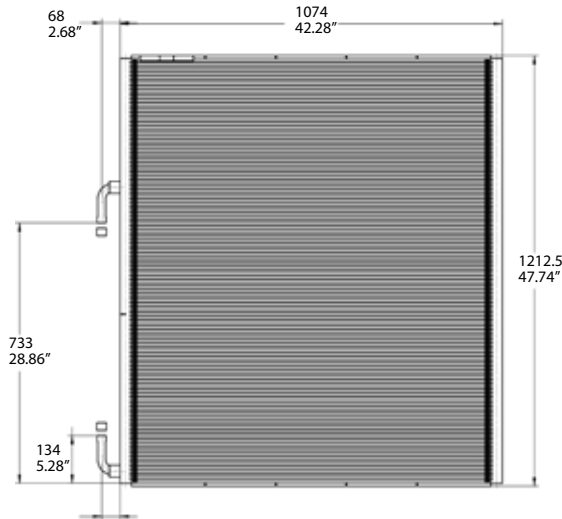
## MicroChannel Heat Exchanger For increased savings

D1800-C MCHE Condenser

**60%**

Lower weight than a  
copper fin and tube  
coil - for easy  
handling and reduced  
shipping costs

# D1800-C Condenser coil MicroChannel Heat Exchanger



## Introduction

This product is ideal for use in many different applications, such as chillers and commercial split/roof tops. MCHEs have an ingeniously simple all-aluminum design that is not only lightweight but also prevents galvanic corrosion. The refrigerant-carrying tubes are formed to optimize heat transfer, enabling the production of more compact, but equally effective, cooling solutions. The smart louvered fin design maximizes surface contact, reducing the air-side pressure loss, improving efficiency and reducing noise levels.

## Key features

- Reduce refrigerant system charge
- Cost - Less sensitive to fluctuations in raw material prices
- Improve efficiency – More compact/better COP/increased capacity
- Better corrosion characteristics due to all-aluminum design

## Technical data

Model	Coil length	Coil height	Core depth	Fin pitch	Inlet ID diameter	Outlet ID diameter	Continuous operating temperature	Max. working pressure	Internal volume	Coil weight
D1800-C	1074 (mm) 40.3 (in)	1213 (mm) 47.8 (in)	25.4 (mm) 1.0 (in)	1.1 (mm) 23 (FPI)	22.4 (mm) 0.88 (in)	22.4 (mm) 0.88 (in)	-40 °C / 121 °C -40 °F / 250 °F	45 (bar) 650 (psi)	2.79 (l) 170.26 (in <sup>3</sup> )	15.1 (kg) 33.29 (lb)

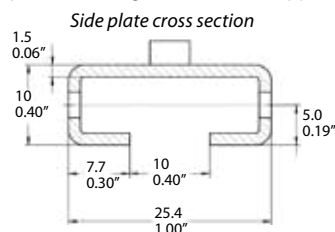
## Material

Tube: AA3102  
Fins: AA3003Mod clad with AA4343  
Manifold: AA3003 clad with AA4045

Inlet/Outlet tubes: Cu  
Side plate: AA3003

## Mounting

Aluminum MCHEs expand and contract when exposed to big temperature changes. Installation supports/brackets must allow the MCHC to move in two dimensions.



## Standard connections

The product is equipped with standard copper pipe connections for easy mounting. Never bend or stress the inlet/outlet connections during mounting, and design installations to avoid vibration in operation.

## Bending

MicroChannel Heat Exchangers can easily be bent to fit in any application. Ask your local Danfoss Sales representative for advice.

## Availability

Our local stocking and distribution network allows standard MCHEs to be delivered globally with short delivery times. Contact your local Danfoss sales representative for the standard lead times in your region.

## Third-party approvals

PED Cat I  
UL 207

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