MicroChannel Heat Exchanger
For increased savings

D1000-C MCHE Condenser

60%
Lower weight than a copper fin and tube coil - for easy handling and reduced shipping costs

ra.danfoss.com
D1000-C Condenser coil
MicroChannel Heat Exchanger

Introduction
This product is ideal for use in a number of various applications, such as Residential AC, Condensing units, Air dryers, Cabinet cooling and Indoor display. 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
- Improve efficiency – More compact/better COP/increased capacity
- Cost - Less sensitive to fluctuations in raw material prices
- Better corrosion characteristics due to all-aluminum design

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Coil length</th>
<th>Coil height</th>
<th>Core depth</th>
<th>Fin pitch</th>
<th>Inlet ID diameter</th>
<th>Outlet ID diameter</th>
<th>Continuous operating temperature</th>
<th>Max. working pressure</th>
<th>Internal volume</th>
<th>Coil weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1000-C</td>
<td>332 (mm)</td>
<td>301 (mm)</td>
<td>16 (mm)</td>
<td>23 (FPI)</td>
<td>6.15 (mm)</td>
<td>6.15 (mm)</td>
<td>-40 °C / 121 °C</td>
<td>45 (bar)</td>
<td>0.17 (l)</td>
<td>0.823 (kg)</td>
</tr>
</tbody>
</table>

Material
- Tube: AA3102
- Fins: AA3003Mod clad with AA4343
- Manifold: AA3003 clad with AA4343
- 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 MCHE 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: N/A (Not needed for this product)
- UL 207