

Danfoss

Brazed Plate Heat Exchanger

Installation guide



This product is a Danfoss Brazed Plate Heat Exchanger.
Please follow the instructions relating to installation, commissioning,
maintenance and service.
Instructions are available:

- Scanning QR code on this page:
- On Danfoss website: <https://www.danfoss.com/en/products/dhs/heat-exchangers/>
- Or contact your local Danfoss representative



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Refrigerant to Liquid Condenser		Refrigerant to Liquid Evaporator		Liquid to Liquid
<p>Single</p> <p>Liquid: Q1Q2 Refrigerant: Q3Q4</p>	<p>Dual</p> <p>Liquid: Q1Q2 Refrigerant: Q3Q4/Q5Q6</p>	<p>Single</p> <p>Liquid: Q1Q2 Refrigerant: Q3Q4/Q5Q6</p>	<p>Dual</p> <p>Liquid: Q1Q2 Refrigerant: Q3Q4/Q5Q6</p>	<p>Liquid to Liquid</p> <p>Liquid: Q1Q2 Liquid: Q3Q4</p>

Insulated BPHE

M6:	6 Nm
M8:	15 Nm
M10:	25 Nm
M12:	35 Nm

1/2":	35 Nm
1":	155 Nm
1-1/2":	350 Nm
2":	600 Nm
2-1/2":	1450 Nm
3":	2460 Nm
4":	4050 Nm

Insulation: It is recommended that the product be insulated during operation. Use insulation to create a vapor barrier and prevent heat losses.

Mounting: Never expose the unit to pulsations or excessive cyclic pressure or temperature changes. It is also important that limit vibrations as much as possible by installing vibration absorbers. For large connection diameters, it is advisable to use an expanding device in the pipeline. A buffer between the BPHE/MPHE and the mounting clamp (e.g. a rubber mounting strip) is also recommended to prevent the water hammer.

Brazing: Braze using 45% or above silver brazing. Brazing temperature should be lower than 800°C. Take care to avoid directing the flame at the heat exchanger. Use a wet cloth or cooling water to protect the connection against overheating. Use nitrogen gas to protect the inside of the heat exchanger from oxidation.