



## AC230DQ / ACH230DQ

### Brazed plate heat exchanger with double refrigerant circuit

Alfa Laval introduced its first brazed plate heat exchanger in 1977 and has since continuously developed and optimized its performance and reliability.

Brazing the stainless steel plates together eliminates the need for gaskets and thick frame plates, which makes the heat exchanger compact and saves material. The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service lifetime.

The AlfaChill (AC) brazed plate heat exchangers are specifically designed for heat transfer in air conditioning, refrigeration and heat pump applications.

Innovative features for this double circuit heat exchanger with diagonal flow include a patented distributor integrated in the plate design.

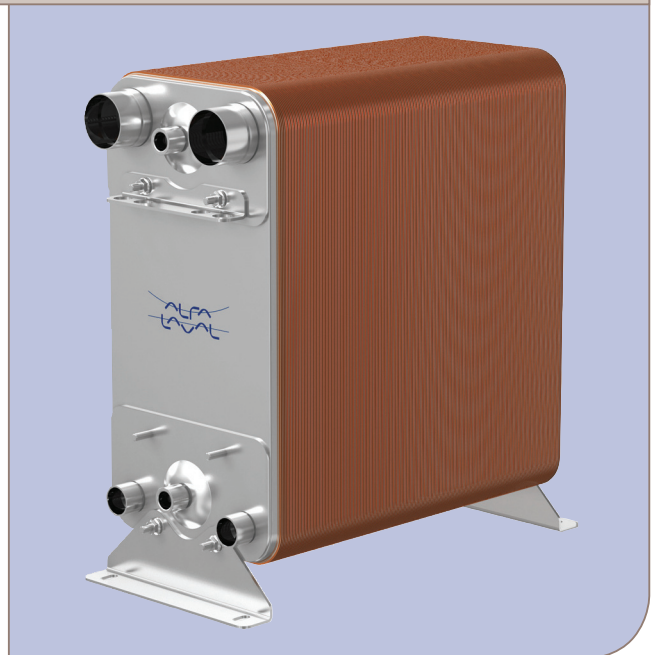
#### Typical applications

- Evaporation in chiller and heat pumps
- Condensing in chiller and heat pumps

The standard design supports a wide variety of HFC refrigerants such as R407C, R404A, R507. The high-pressure version is suitable for R410A and natural refrigerants (CO<sub>2</sub> - propane).

#### Capacity range

AC230DQ / ACH230DQ cover capacities from 50 kW up to 250 kW for chillers and 30 to 150kW for heat pumps. Based on standard components and a modular concept, each unit is custom-designed for each specific installation.

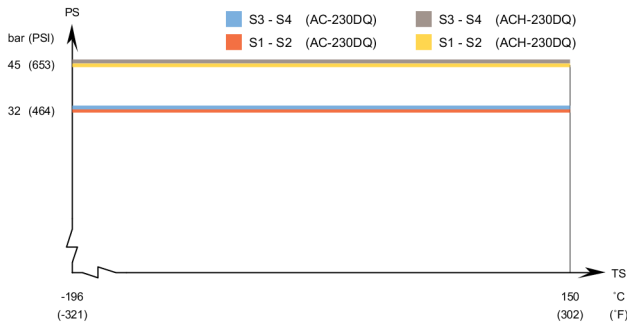


#### Request for quotation

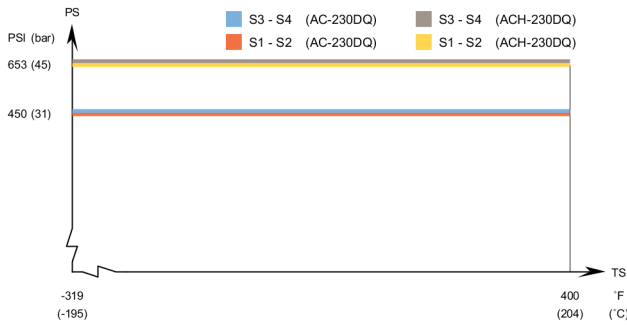
To receive a quotation for brazed plate heat exchangers that meet your requirements, please provide Alfa Laval representatives with:

- Required flow rates or heat load
- Temperature program (inlet and outlet)
- Brine and refrigerant type
- Desired working pressure
- Maximum permitted water/brine pressure drop
- Connection types

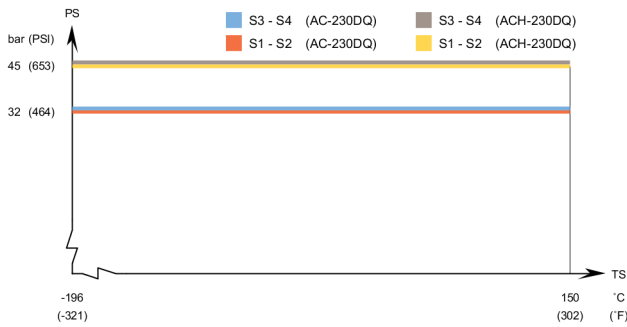
**AC230DQ / ACH230DQ - PED approval pressure/temperature graph**



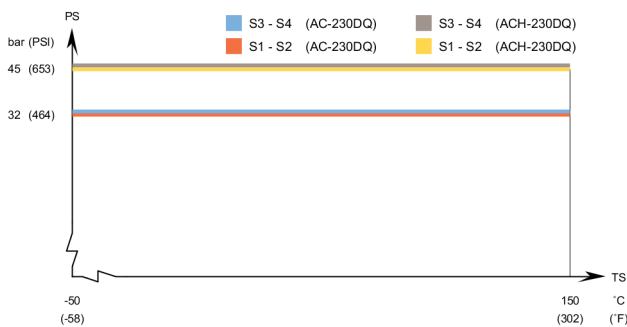
**AC230DQ / ACH230DQ - UL approval pressure/temperature graph**



**AC230DQ / ACH230DQ - CRN approval pressure/temperature graph**



**AC230DQ / ACH230DQ - KHK and KRA approval pressure/temperature graph**



**Standard dimensions and weight\***

A measure mm =  $13 + (2.14 * n) \pm 2 \%$   
 A measure inch =  $0.51 + (0.08 * n) \pm 0.08 \%$   
 Weight\*\* kg =  $6 + (0.4 * n)$   
 Weight\*\* lb =  $13.23 + (0.88 * n)$

(n = number of plates)  
 \* Excluding connections

**Standard data**

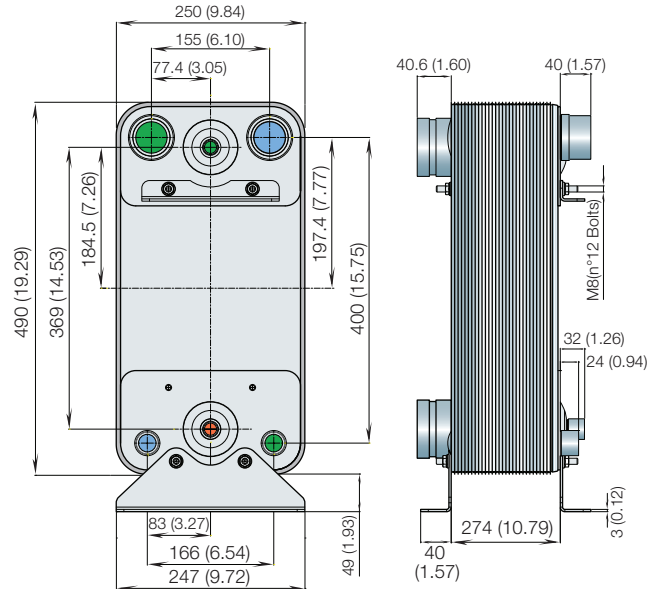
Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel, litres (ga)	0.16 (0.040)
Max. flowrate* m <sup>3</sup> /h (gpm)	60 (264)
Min. nbr of plates	10
Max. nbr of plates	250

\* Water at 7 m/s (23 ft/s) (connection velocity)

**Standard materials**

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

**Standard dimensions**  
mm (inch)



For exact values please contact your local Alfa Laval representative

**How to contact Alfa Laval**

Up-to-date AlfaLaval contact details for all countries are always available on our website on [www.alfalaval.com](http://www.alfalaval.com)