AC30EQ / ACH30EQ
Brazed Plate Heat Exchanger

General information
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 single circuit heat exchanger include a patented distributor integrated in the plate design.

Typical applications
- Evaporator and condenser in chillers and heat pumps
- Total heat recover in chillers
- Liquid cooler in direct system

The standard design supports a wide variety of HFC refrigerants such as R407C, R404A, R507, R134a. The high-pressure version is suitable for R410A and natural refrigerants (CO2 - propane).

Capacity range
AC30EQ / ACH30EQ cover capacities from 3 up to 30 kW for chillers. 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

Examples of connections*
- External threaded
- Internal threaded
- Soldering

* More connections are available on request.
Standard dimensions and weight*

A measure mm = 9 + (1.52 * n) ± 3 %
A measure inch = 0.35 + (0.06 * n) ±0.12 %
Weight** kg = 1 + (0.09 * n)
Weight** lb = 2.2 + (0.2 * 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) 0.028 (0.0072)
Max. flowrate* m³/h (gpm) 8.8 (39)
Min. nbr of plates 4
Max. nbr of plates 120
* Water at 5 m/s (16.4 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

ECR00046EN 1204
Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval
Up-to-date Alfa Laval contact details for all countries are always available on our website on www.alfalaval.com