



AC80

Brazed Plate evaporator and condenser with double circuit solution

The new real double circuit in a capacity range you would not ever have thought possible!

Alfa Laval's new brazed plate heat exchanger for air conditioning and refrigeration applications – the AC80DQ - offers a lower cost option to Original Equipment Manufacturers and refrigeration constructors in general.

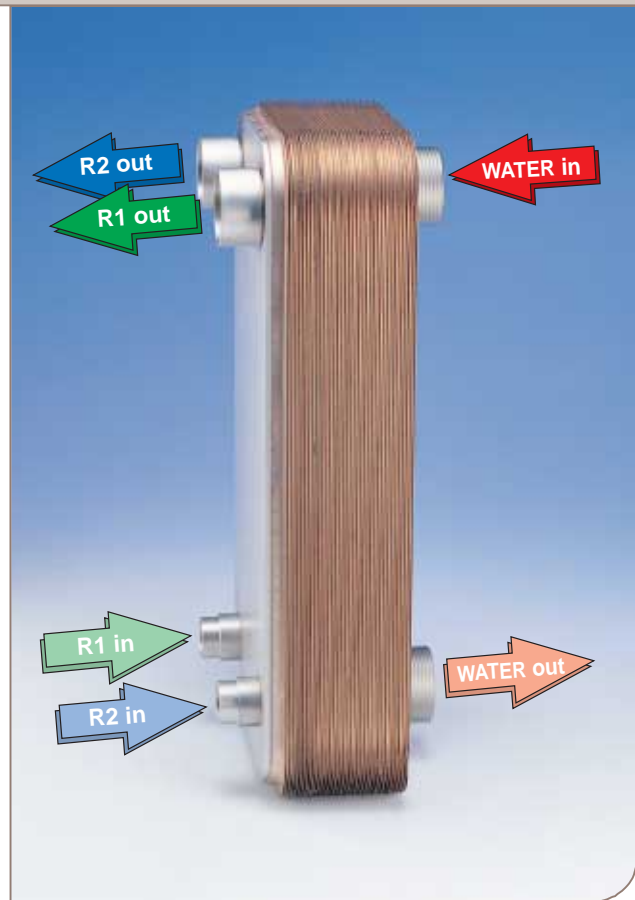
It completes a range of genuine double circuit exchangers to provide a capacity range that would once not have been thought possible - 30 kW to 80 kW (at standard conditions).

The AC80DQ has all the features that made the Alfachill series such a success with air conditioning and refrigeration Original Equipment Manufacturers. It incorporates the unique, Equalancer refrigerant distribution system, plus the Dualaced System; a genuine double system integrated into the plate. Add to this diagonal flow to improve heat transfer performance, sealing plates to prevent any ingress of moisture from outside, brazed connections on the refrigerant side and threaded connections on liquid side of many models, and you have an exchanger that is built to handle the toughest refrigeration duties.

The compact size - the AC80DQ is just 40 cm long - light weight and low hold-up refrigerant volume help to make the AC80DQ a 'must' for manufacturers looking to develop innovative refrigeration products. In addition, its flexibility makes it suitable for use as an evaporator, condenser and in heat pumps.

Connection is simplicity itself. The unit comes with refrigerant connections incorporated into the front plate whilst the liquid connection is located in a central position in the back. The refrigerant flow is diagonal. The AC80DQ is suitable for applications with all HFC refrigerant such as R407C and R404A and also for high pressure HFC like R410A.

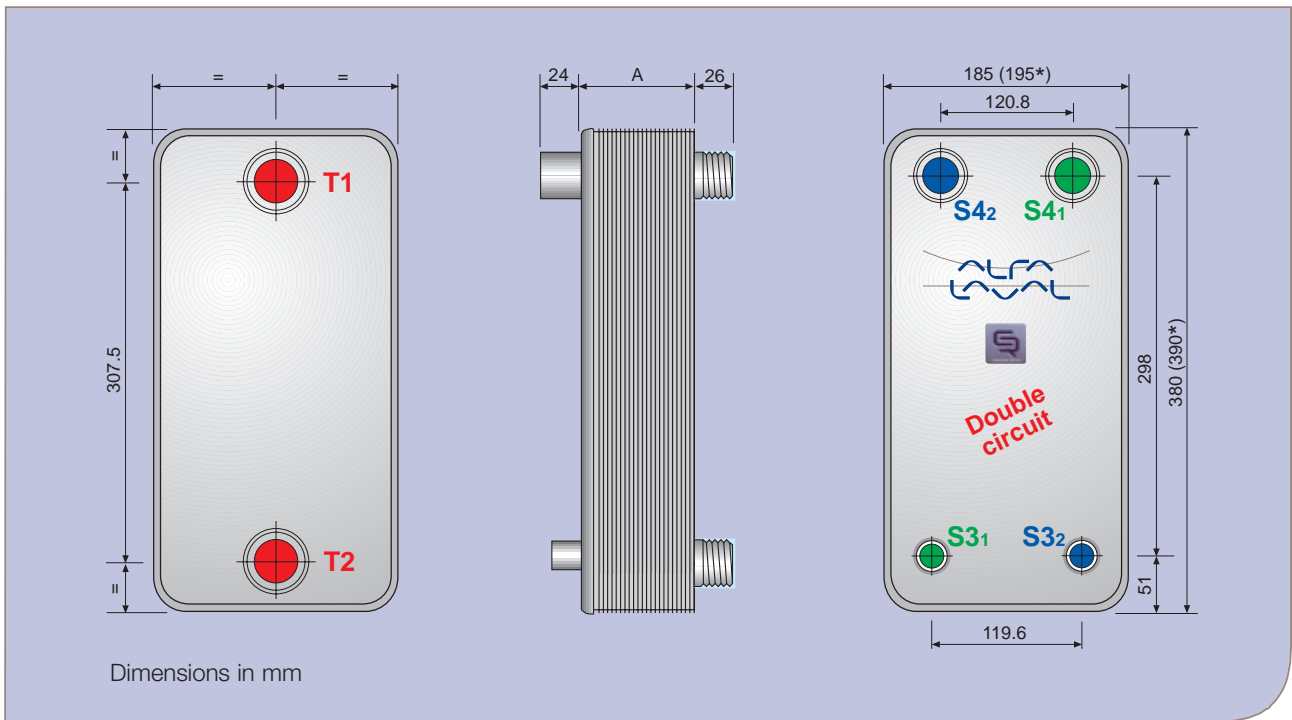
The AC80DQ double circuit unit covers a refrigeration capacity from 30 up to 80 kW and completes the most comprehensive series of Brazed Heat Exchangers with genuine double circuit technology currently available. While the AC80DQ is the smallest unit with capacity up to 80 kW, the next model, the AC130, operates up to 200 kW and the AC250, up to 450 kW, completes the range.



**Special
innovations
from
Alfa Laval**



- 1. Dualaced System**
An advanced dual circuitry integrated in the plate
- 2. Equalancer System**
The integrated refrigerant distribution system that increases performance
- 3. Diagonal Refrigerant flow**
Improves performance in the plate



Dimensions in mm

General Data

Design Temperature	-50°C / +150°C
Design Pressure Standard	3,2 MPa
Test Pressure	4,83 MPa
Design Pressure Special	4,5 MPa
Volume per Channel	0.094 dm ³
Max Flow Rate Water Side	18 m ³ /h
Plate Channels Available	HX

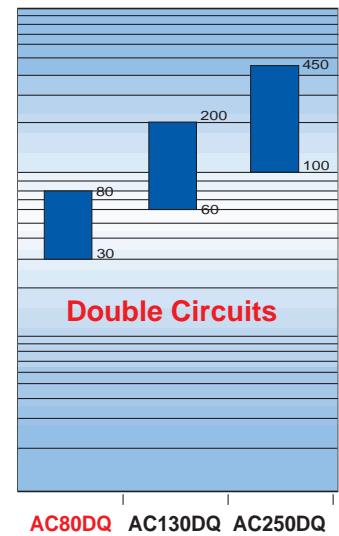
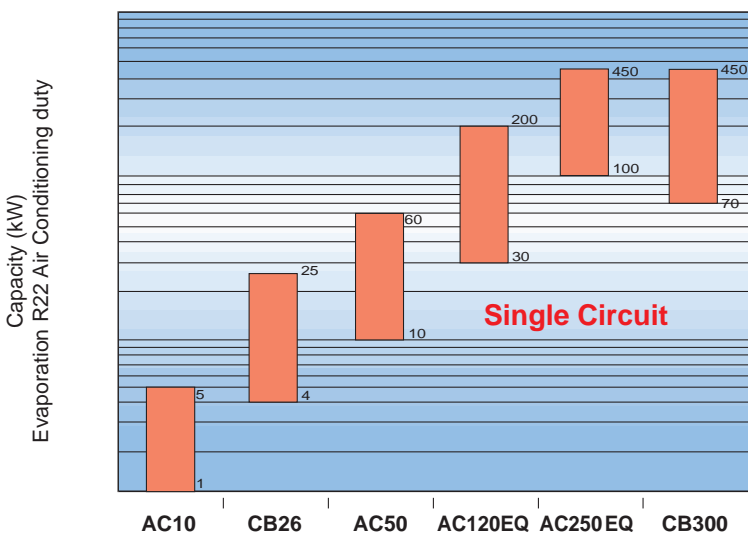
Standard Connections

Water/Brine side	S1-S2-T1-T2: 1" 1/4
Refrigerant side	S3: 5/8", 7/8", 1" 1/8
	S4: 1" 1/8, 1" 3/8

Dimensions

A = 10 + n x 2.4 (mm)
 Weight = 1.8 + n x 0.23 (kg)
 n = number of plates

Alfa Laval Brazed Plate Heat Exchangers Range



Cod. 11100424 - Edito 09/01

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