



CB60

Brazed plate heat exchanger with single circuit

The CB60 is the latest Alfa Laval brazed heat exchanger that's specifically designed to work in heat pump installations.

The CB60 is a single refrigerant circuit unit that's perfect for up to 40 kW range; it is suitable to work as an evaporator, condenser, and economizer. Thanks to better use of materials, the heat transfer area is increased, and the water pressure drop is significantly reduced. Compared to existing products, the CB60 show up to 5% improvement in COP or 20% in cooling capacity.

Our laboratories verified the heat exchanger, and it achieves the highest market performances with HFC refrigerants such as R407C, R404A, R134A (CB60 model), R410A (CBH60 model) and with natural refrigerants (propane).

Traditionally, Alfa Laval concentrates extensively on reliability. All the brazed heat exchangers in customers' heat pump installations are subject to daily fatigue cycles during on/off operations. Our mission is to supply reliable products that prevent damage after a few cycle operations and to assure our customers that the units will not create problems to the end users. That's why Alfa Laval worked extensively during the last 50 years to design and develop reliable products and the company invests heavily in R&D.

The CB60 assures the highest level of quality and performance reliability. The unit is available with major pressure vessel codes such as CE (Europe), UL (USA), and KHK (Japan).

Possible applications

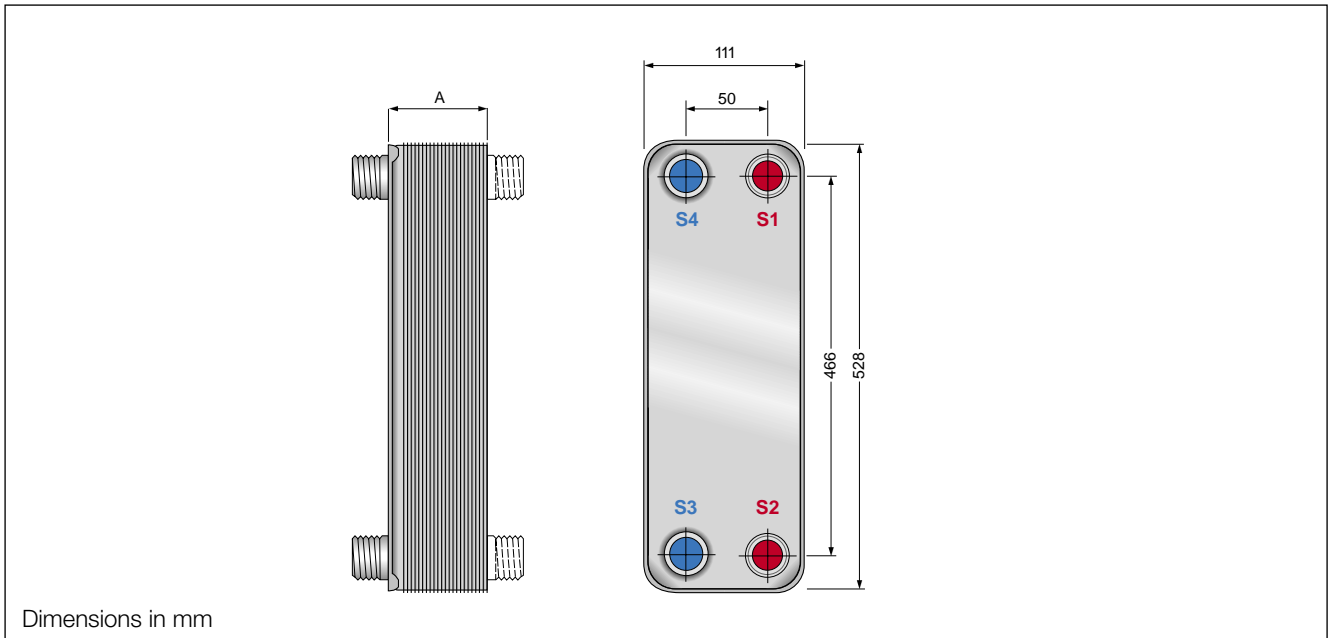
- Evaporator
- Condenser
- Economizer



Prerequisites

To enable Alfa Laval's representatives to create a quotation, please ensure that they have these specifications:

- Flow rates or heat load required
- Inlet and outlet temperature
- Desired working pressure
- Maximum permitted brine pressure drop
- Connection types
- Brine and refrigerant type



General data

| | |
|--------------------------------|----------------------|
| Design temperature | -196°C / +150°C |
| CB60 design pressure | 36 bar |
| CBH60 design pressure | 45 bar |
| Maximum flow rate (water side) | 10 m ³ /h |

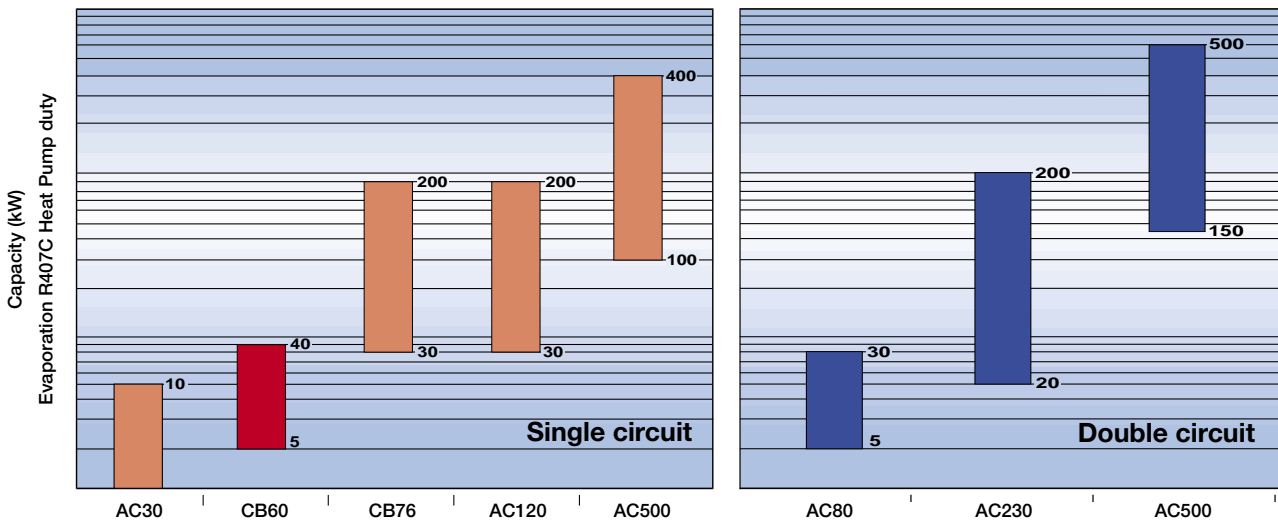
Standard connections

| | |
|------------------|-----------------------|
| Water/brine side | S1-S2 – T1-T2: 1" BSP |
| Refrigerant side | S3-S4: 7/8", 1" 1/8" |

Dimensions

$A = 10 + n \times 2.3$ (mm)
 $Weight = 2.3 + n \times 0.17$ (kg)
 (n = number of plates)

Alfa Laval brazed plate heat exchangers range



How to contact Alfa Laval

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