



## CB76E

### Optimized condenser performance – compact size

#### Applications

The CB76E is dedicated for use as condenser with very close temperature approach in indirect heat pump and refrigeration systems. The heating capacity is within the range of 30-220 kW.

CB76E is a single refrigerant circuit plate heat exchanger suitable for all common refrigerants on the market, including propane.

The unit is also available in a High Pressure version denominated CBH76E, with a design pressure of 45 bar, which makes it suitable also for the high pressure refrigerant R410A.

#### Performance advantages as condenser

CB76E is equipped with the extremely high efficient E-channel plate, which enables very narrow temperature approaches between leaving water and condensing temperatures.

The excellent performance will also allow a design with fewer plates to a lower cost.

#### The advantages of compactness

The compact CB76E takes up less space in your system, leaving space for other equipment. It also means less refrigerant (that saves money), less weight, and faster response to changes in operating parameters.



CB76E

Performance data	CB76E	CBH76E
Design temperature (min.) **)	-160°C	-160°C
Design temperature (max.) **)	+175°C	+130°C
Design pressure (min.) **)	Vacuum	Vacuum
Design pressure (max.) **)	S1S2/S3S4 32 bar	45 bar
Volume per channel	0,18 l	0,18 l
Max flow rate, water side *)	39 m <sup>3</sup> /h	39 m <sup>3</sup> /h

\*) Water at 5 m/s (connection velocity)

\*\*) According to European pressure vessel directive (PED) (CE-Approval)

### Connections

Water/glycol side: Std. BSP 2" external thread (B23)  
Opt. ODS 2 1/8" soldering (D21)

Refrigerant: Std. ODS 2 1/8" soldering (D21)  
Opt. ODS 1 5/8" soldering (H25)  
Opt. ODS 1 3/8" soldering (D26)

### Dimensions

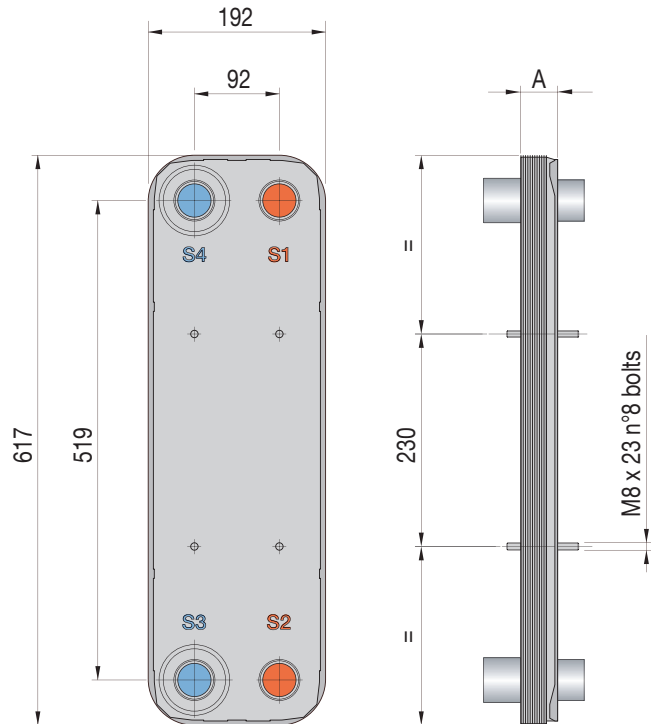
$A = 10 + 2.2 \times n$  (mm)

Weight =  $7.0 + n \times 0.44$  (kg)

n = number of plates (maximum = 210)

### Accessories

- Mounting stud bolts M8 x 23 (mm)
- Mounting feet
- Thermal insulation kit, Armaflex 10 mm thick  
Pre-cut/pre-glued, up to 100 plates
- Screw fittings for connecting the water side to steel or copper pipes



### Particulars required for quotation

To enable Alfa Laval's representative to make a specific quotation, enquiries should be accompanied by the following particulars:

- flow rates or heat load required
- temperature program
- physical properties of liquids in question
- desired working pressure
- maximum permitted pressure drop

### 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](http://www.alfalaval.com)