



CB14

Domestic Hot Water Heat Exchanger

Alfa Laval is committed to optimise the performance of your process, with complete dedication to your business.

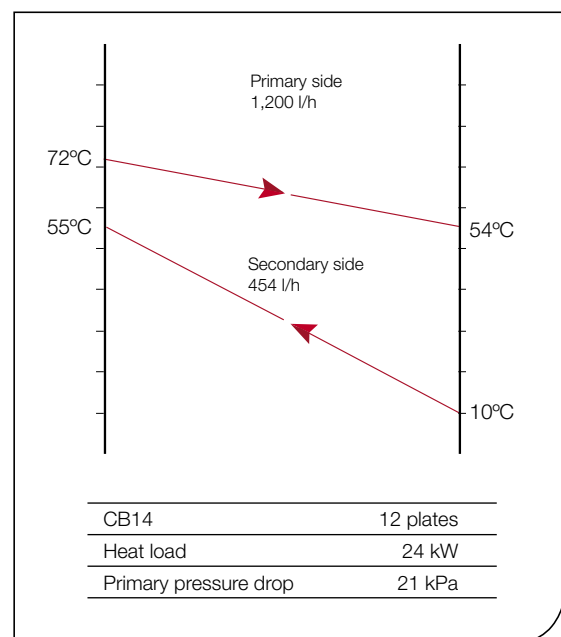
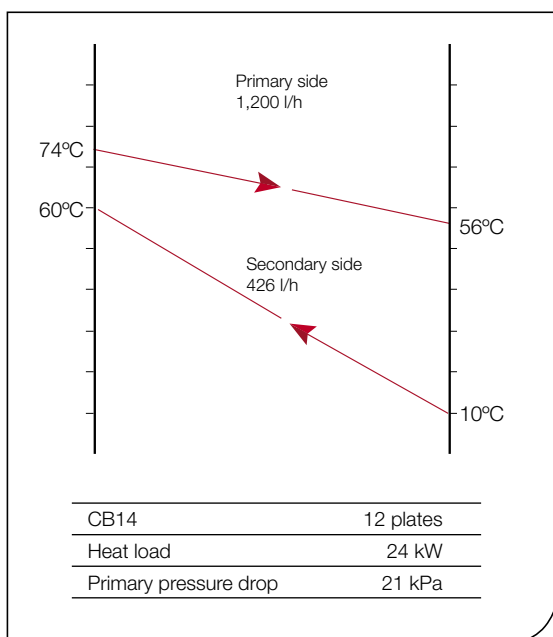
The CB14 is a brazed heat exchanger (BHE), designed specifically for the combi boiler market.

Compared to conventional BHEs, CB14 offers you:

- High heat transfer thanks to optimal design for combi boilers resulting in:
 - less heat transfer area needed
 - less scaling risk due to possibility to decrease primary inlet temperature
 - less scaling risk due to high turbulence
- High hammer water resistance giving:
 - longer lifetime



Thermal performance examples



Customer interface

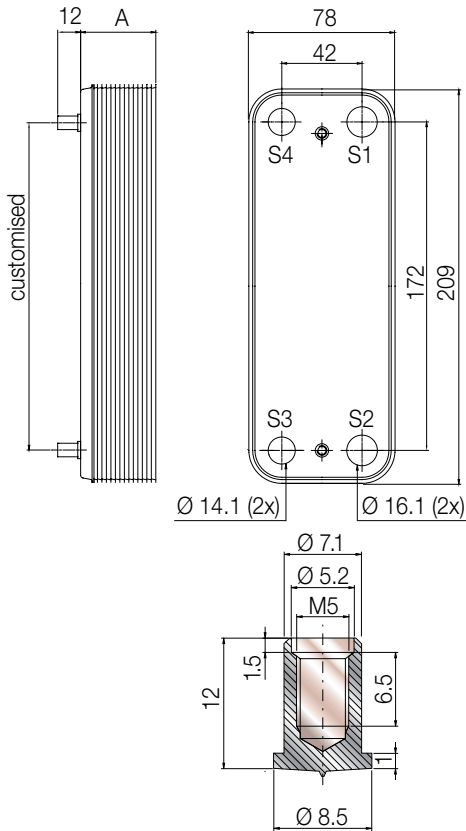
The CB14 is available both for hydroblock solutions and with connections. All units are marked with an Alfa Laval part number and a fully traceable manufacturing number.

Hydroblock solution

- Recommended o-ring: maximum outer diameter 27 mm
- M5 internal threaded stud bolts
- Stud bolt material: Copper coated carbon steel

$$A = (7.6 + N * 2.3) \text{ mm}$$

N = Number of plates

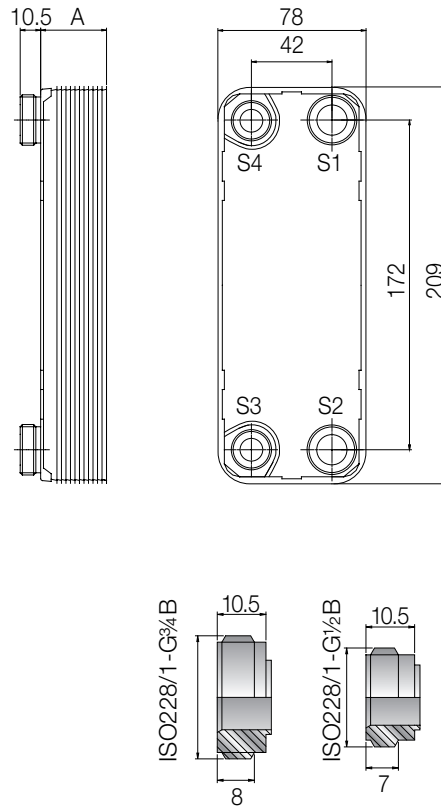


Connections

Primary side (S1-S2): 3/4" ISO-G Carbon steel
 Secondary side (S3-S4): 1/2" ISO-G Stainless steel
 Other connections are available on request.

Flow configuration

S1 → S2 or S2 → S1
 S3 ← S4 or S4 → S3



Mechanical data

Plate material

Stainless steel 316L

Brazing material

Copper 99.9%

Max. working pressure

Primary side 3 barg
 Secondary side 10 barg

Max. working temperature

120°C

Test pressure

Primary side 4.5 barg
 Secondary side 15 barg

All units are leakage tested both externally and internally.

Mechanical fatigue

0-15 bar, 100,000 cycles

Customised solutions are available on request

EOEM00001EN 0407

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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