



## The AlfaChill 120

**Optimized performance. Compact size.**

### Applications

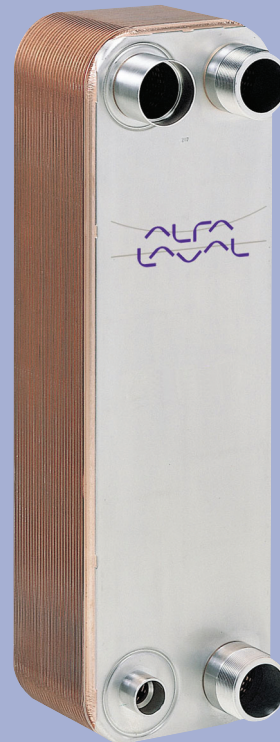
The AlfaChill120 (AC120) was specifically developed for use in air conditioning and refrigeration applications with chiller capacities from 6 to 55 tons. The system performs as evaporator or condenser in either water chillers or closed-loop water heat pumps.

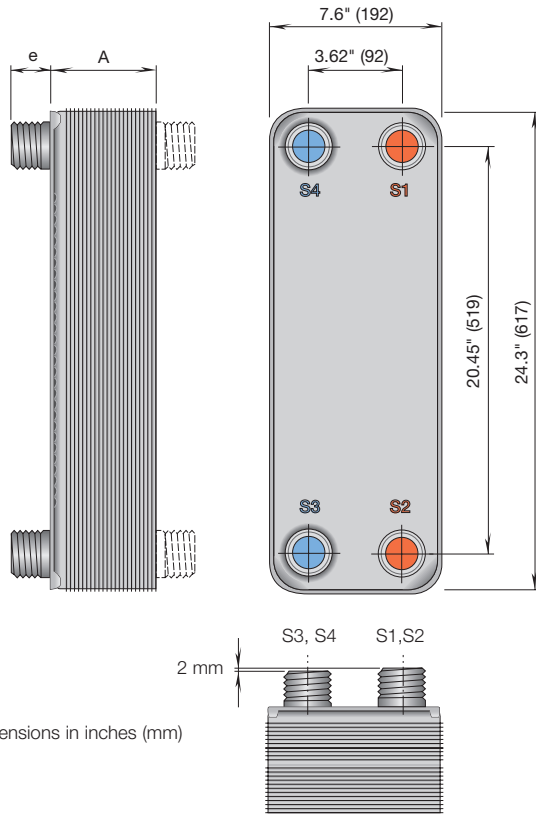
### Performance advantages of combining two unique systems

The AC120 features the Equalancer System,<sup>™</sup> which optimizes heat transfer by distributing refrigerant more efficiently across the plate and through plate channels, decreasing the need for superheating. This two-orifice, two-chamber design equalizes and balances refrigerant pressure before the refrigerant enters the plate channels. The first chamber is similar to conventional brazed plate evaporators. A small orifice connects the first chamber with a larger second chamber, into which refrigerant flows to be re-mixed and where pressures are equalized.

### The advantages of compactness

The compact AC120 takes up less space in your system, leaving space for other equipment. It also means less refrigerant (that saves you money), less weight and faster response to changes in operating parameters.





Dimensions in inches (mm)

### Performance data

Design temperature (minimum)	-256°F (-160°C)
Design temperature (maximum)	+437°F (+225°C)
Design pressure (minimum)	Vacuum
Design pressure (maximum, refrigerant)	464 psig (32 bar)
Design pressure (maximum, water)	435 psig (30 bar)
Volume per channel	0.053 gal (.201 L)
Maximum flow rate, water side	150 gpm (34 m³/h)
Plate channels available	H (EQ)

### Connections

Water/brine side	1½", 2", 2½" NPT 2" Victaulic in T1 and T2
Refrigerant side	⅞", 1⅛", 1⅜", 1⅝", 2⅞" sweat

### Dimensions

A = .45 + (0.094 x n) (inches)	A = 11.4 + (2.39 x n) (mm)
Weight = 16.8 + (0.97 x n) (lb)	Weight = 7.62 + (0.44 x n) (kg)
n = number of plates (maximum = 200)	

### Accessories

- Mounting stud bolts, ⅜" – 16 x 1" long
- Mounting feet
- Thermal insulation kits, Armaflex ⅜" (10 mm) thick, pre-cut/pre-glued, up to 100 plates



### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information directly.