AC10

Brazed Plate Heat Exchanger

Get the max from the smallest - AC10

The smallest brazed produced by Alfa Laval suitable for all kinds of refrigeration applications. With its 20 cm of length only, and its light weight, it is suitable both for fixed and for transport cooling applications.

The plate pack is sealed both at the top and at the bottom by a thicker, pressed plate. This ensures a complete sealing preventing the plates being damaged from outside media.

The pre-formed embossies in the port areas allow higher design pressure. This special design distributes the stresses from the unsupported port areas to the stronger areas, allowing in such a way an increased pressure duty. The pre-formed solution, instead of just a thicker flat plate, is much more reliable when the unit shall undergo fatigue pressure and thermal cycles. The AC10 with its low volume content does not need any special certification at 42 bar. The AC10 is suitable for application with R410A.

The AC 10 has all the advantages of a plate heat exchanger with high turbulence and high heat transfer coefficient. The performance is up to 5 kW in A/C conditions with R22. It is an optimal solution for refrigerantrefrigerant applications in containers refrigeration, for ground source heat pump systems, oil cooling and all the duties where the most compact design with high performance heat exchange, reliability and quality are required.

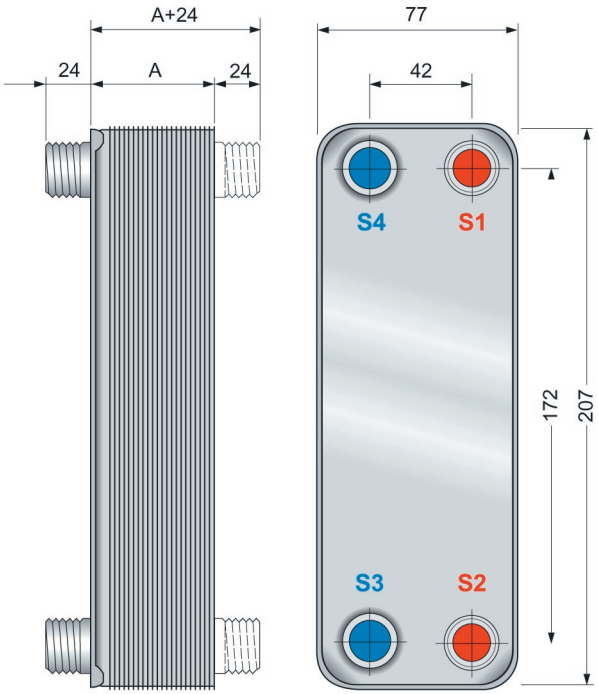
The AC10 is designed to meet the OEM requests. It is produced in a dedicated OEM line, completely automatized.

The standard connections provided can be soldering connections for both circuits or soldered for the internal circuit and threaded for the external (3/4” Gas BSP/NPT).

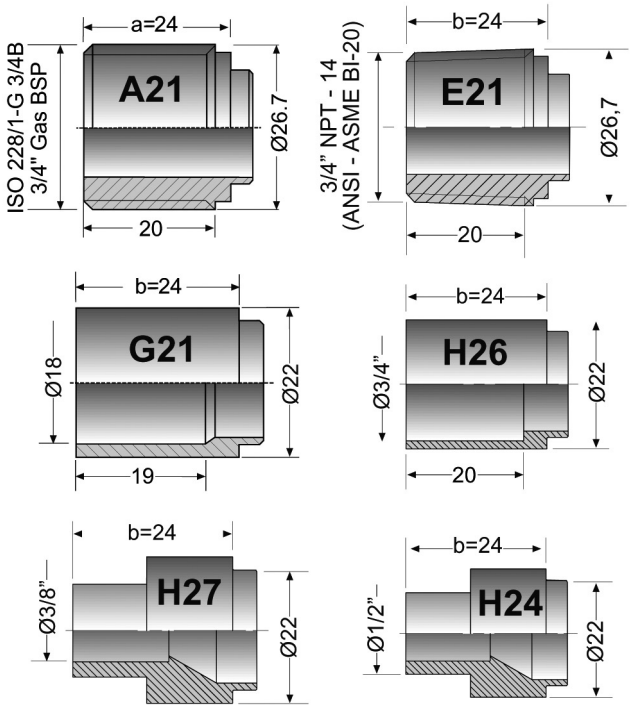
Special innovations of Alfa Laval

1. Pressed sealing plate both at the top and at the bottom to ensure complete sealing from droplets of humidity seeping into the first and last plates.

2. Pre-formed embossies in all four ports areas designed to relieve the pressure stresses to the stronger part of the plate structure, producing higher pressure performance.



Dimensions in mm



General Data

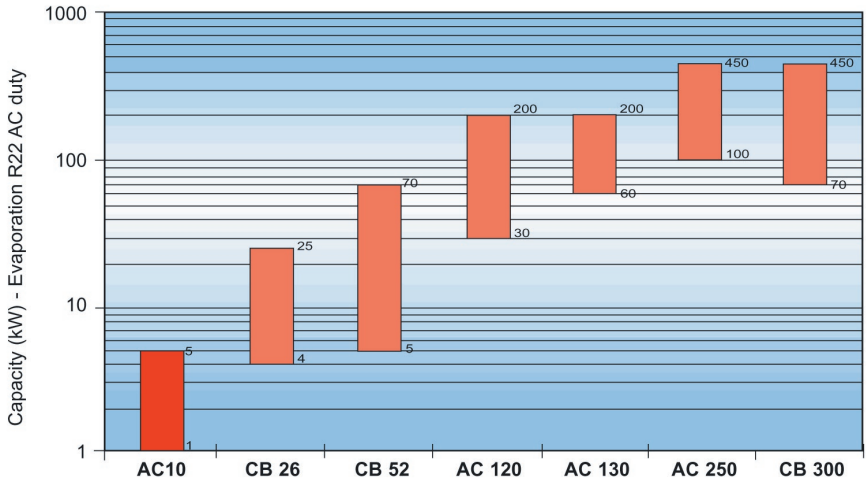
Working Temperature min.	– 50°C
Working Temperature max.	+150°C
Working Pressure min.	Vacuum
Working Pressure max.	42 bar
Test Pressure	55 bar
Volume per Channel	0.02 dm^3
Max Flow Rate Water Side	3.6 m^3/h
Plate Channels Available	H

Standard Connections

Water/Brine side A21 3/4" Gas BSP, E21 3/4" NPT
Refrigerant side G21 (ODS 18 mm), H26 (ODS 3/4")
H27 (ODS 3/8"), H24 (ODS 1/2")

Dimensions

A = 8 + n x 2.35 (mm)
Weight = 0.7 + n x 0.06 (kg)
n = number of plates



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