

Alfa Laval ACH74/ACK74

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications

- Evaporator
- Condenser
- · Cascade systems

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Branded Features

Dialitied Features			
******* ** • • • *****	DynaStatic™	Flexible refrigerant distribution	
	FlexFlow™	Superior thermal performance	
	IceSafe	Controlled, non-destructive freezing	
<u> </u>	PressureSecure	Unparalleled strength for demanding duties	
	REFuture	A future-proof investment for tomorrow's refrigerants	
	ValuePlus	Total support – with value-adding options to fit your needs	

Design

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.



Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the $\rm CO_2$ footprint.

Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections









External thread

Internal thread

Soldering

Welding

Technical Data

Standard materials		
Cover plates	Stainless steel	
Connections	Stainless steel	
Plates	Stainless steel	
Brazing filler	Copper	

Dimensions and weight ¹				
A-measurement (mm)	12 + (1.96 * n)			
A-measurement (inches)	0.47 + (0.08 * n)			
Weight (kg) ²	2.6 + (0.22 * n)			
Weight (lb) ²	5.73 + (0.49 * n)			

¹ n = number of plates

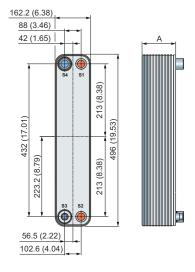
 $^{^{2}}$ Excluding connections

(S1-S2)0.148 (0.0391)
(S3-S4) 0.11 (0.0291)
1.0 (0.039)
27 (118.9)
Parallel
10
180

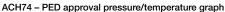
¹ Water at 5 m/s (16.4 ft/s) (connection velocity)

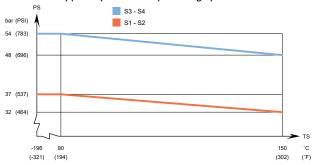
Dimensional drawing

Measurements in mm (inches)

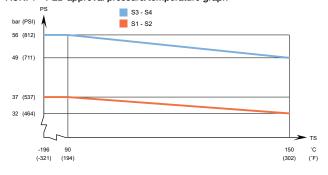


Design pressure and temperature





ACK74 - PED approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

This document and its contents are subject to copyrights and other intellectual property rights owned by Alfa Laval AB (publ) or any of its affiliates (jointly "Alfa Laval"). No part of this document may be copied, re-produced or transmitted in any form or by any means, or for any purpose, without Alfa Laval's prior express written permission. Information and services provided in this document are made as a benefit and service to the user, and no representations or warranties are made about the accuracy or suitability of this information and these services for any purpose. All rights are reserved.

200001259-7-EN-GB © Alfa Laval AB



inf@ D/CESEHSA.com.mx

