

# Alfa Laval CBH18AQ

# AHRI Certified® brazed plate heat exchanger

Alfa Laval CBAQ is AHRI Certified® through the Liquid to Liquid Brazed & Fusion-bonded Plate Heat Exchangers (LLBF) Certification Program which ensures thermal performance in accordance with the product specifications.

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

### **Applications**

- · HVAC heating and cooling
- · Industrial heating and cooling

#### **Benefits**

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

## 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.

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



# **Examples of connections**



#### **Technical Data**

Stariuaru materiais		
Cover plates	Stainless steel	
Connections	Stainless steel	
Plates	Stainless steel	
Brazing filler	Copper	

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A measure (mm)	6 + (2.16 * n)
A measure (inches)	0.24 + (0.09 * n)
Weight (kg) <sup>2</sup>	0.4 + (0.07 * n)
Weight (lb) <sup>2</sup>	0.88 + (0.15 * n)

- 1. n = number of plates
- 2. Excluding connections

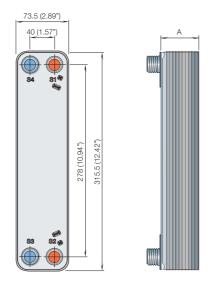
#### Standard data

Volume per channel, litres (gal)	A (S1-S2): 0.042 (0.011)
	A (S3-S4): 0.035 (0.0089)
	H: 0.038 (0.0098
Max. particle size, mm (inch)	1.1 (0.04)
Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm)	4.1 (18)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	60

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

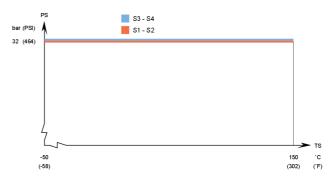
## Dimensional drawing

Measurements in mm (inches)

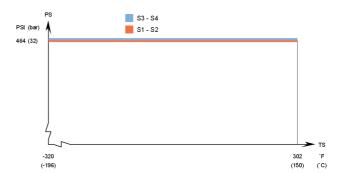


#### Design pressure and temperature

CBH18AQ - PED approval pressure/temperature graph



CBH18AQ - UL/CRN 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.

# Certificates



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Alfa Laval reserves the right to change specifications without prior notification.

#### How to contact Alfa Laval