

# Alfa Laval DOC110

## Brazed plate heat exchanger for oil cooling

#### Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

### **Applications**

• Oil 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
- Very robust connection flanges

#### 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.

The robust connection flanges with internal threads and integrated mounting brackets are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



#### **Technical Data**

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

Dimensions and weight <sup>1</sup>	
A measure (mm)	15 + (2.56 * n)
A measure (inches)	0.59 + (0.10 * n)
Weight (kg) <sup>2</sup>	4.82 + (0.35 * n)
Weight (lb) <sup>2</sup>	10.63 + (0.77 * n)

<sup>&</sup>lt;sup>1</sup> n = number of plates

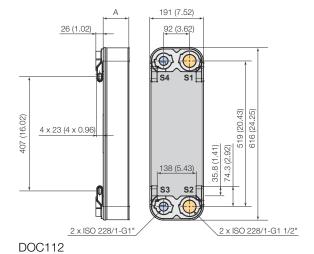
<sup>&</sup>lt;sup>2</sup> Excluding connections

Standard data		
Volume per channel, litres (gal)	0.21 (0.0555)	
Max. particle size, mm (inch)	1.2 (0.047)	
Max. flowrate <sup>1</sup> m3/h (gpm)	20 (88.1)	
Flow direction	Parallel	
Min. number of plates	10	
Max. number of plates	150	

<sup>&</sup>lt;sup>1</sup> Water at 5 m/s (16.4 ft/s) (connection velocity)

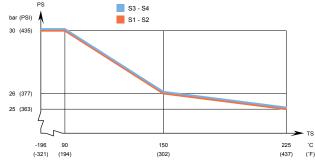
#### **Dimensional drawing**

Measurements in mm (inches)

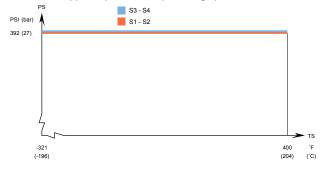


#### DOC110 - PED approval pressure/temperature graph

Design pressure and temperature



DOC110 - UL 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.

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