

# Alfa Laval RM1 1

## Fusion-bonded plate heat exchanger for exhaust gas heat recovery

### Introduction

Alfa Laval RM is a 2-port fusion-bonded plate heat exchanger made of 100% stainless steel. It is specifically designed for exhaust gas heat recovery.

### Applications

Exhaust gas heat recovery, suitable for residential boilers up to 28 kW

### Benefits

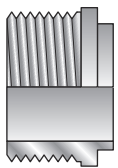
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- 100% stainless steel

### Design

The AlfaFusion filler 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.

RM has one open channel for the flue gas and one closed channel for the water circuit.

### Examples of connections



External thread



Soldering



## Technical Data

### Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
AlfaFusion filler	Stainless steel

### Dimensions and weight <sup>1</sup>

A measure (mm)	$3.1 + (3.38 * n)$
A measure (inches)	$0.12 + (0.13 * n)$
Weight (kg) <sup>2</sup>	$0.204 + (0.03 * n)$
Weight (lb) <sup>2</sup>	$0.45 + (0.07 * n)$

<sup>1</sup> n = number of plates

<sup>2</sup> Excluding connections

### Standard data

Volume per channel, litres (gal)	0.027 (0.0071)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm)	289 (1272.4)
Flow directions	Parallel
Min. number of plates	6
Max. number of plates	30

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

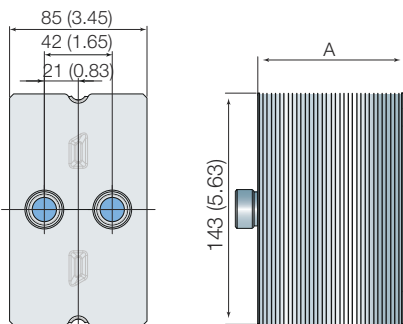
Designed for full vacuum.

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.

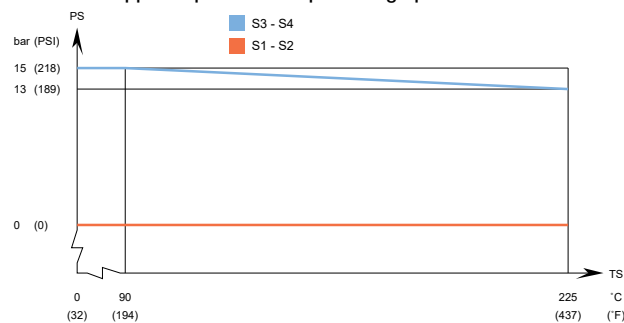
## Dimensional Drawing

Measurements in mm (inches)



## Design pressure and temperature

### RM11 – PED approval pressure/temperature graph



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