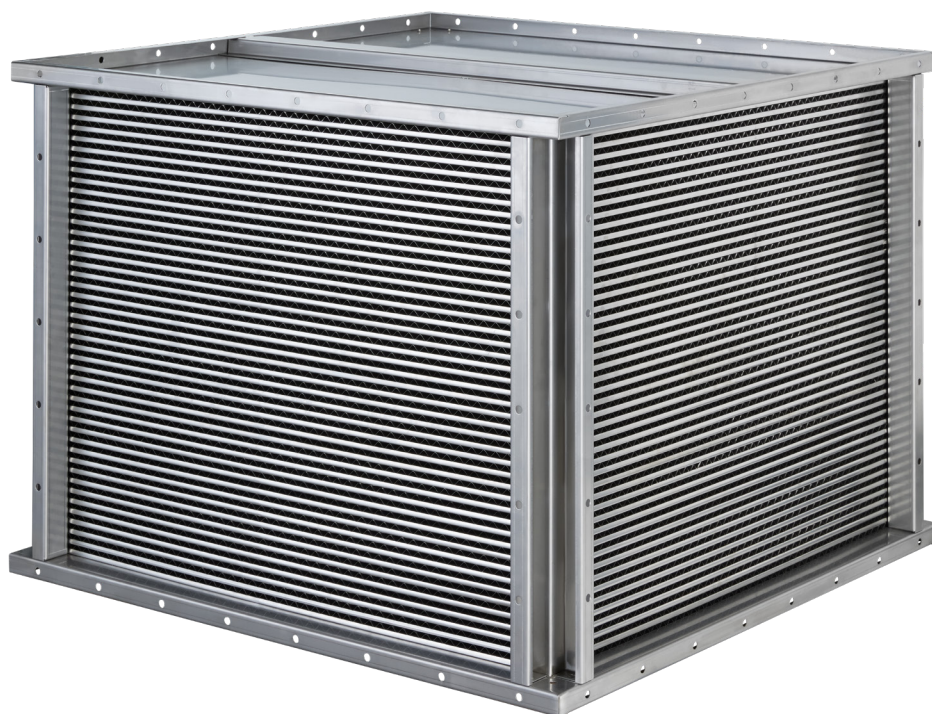




RECUPERATOR THE HEAT EXCHANGER

STAINLESS STEEL

PLATE HEAT EXCHANGERS | P SERIES



Applications



P SERIES

Stainless steel plate heat exchangers operate on the air to air cross-flow principle and are available for volumes up to 200,000 [m³/h] / 117,716 [cfm].

They can withstand temperatures of also over 800°C / 1472°F, depending on the sealing requirements and materials. The wave-structure spacer plates provide effective separation of the media and offer resistance to differential pressures of up to 10,000 Pa / 40,17 in WC.

These heat exchangers are **constructed simply and on a standardised basis, which allows us to offer at competitive price while also providing the flexibility to meet the customers' specific requirements.**

They are suitable for applications such as process energy recovery, where **they can quickly recoup investment costs through significant energy savings.**

Main Advantages

- › The airflow distribution ensures high alpha values and the absence of internal formation of eddies (laminar streaming), thus minimizing pressure loss and dirt build up.
- › Waveplate construction significantly enhances thermodynamic surface area
- › More stable structure compared to conventional construction
- › Low deformation under pressure differences between air intake and outlet
- › Elasticity and vibration absorption for robust transport and operational use
- › Adjustable plate spacing accommodating various air volumes
- › High operating temperature stability
- › Options for low leakage and gas-tight configurations
- › Lightweight due to compact construction



High resistance to corrosion



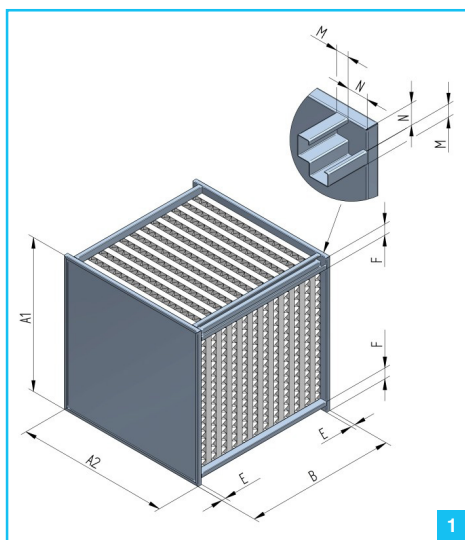
Temperatures over 800°C / 1472°F



Pressure difference up to 10,000Pa / 40,17 in WC

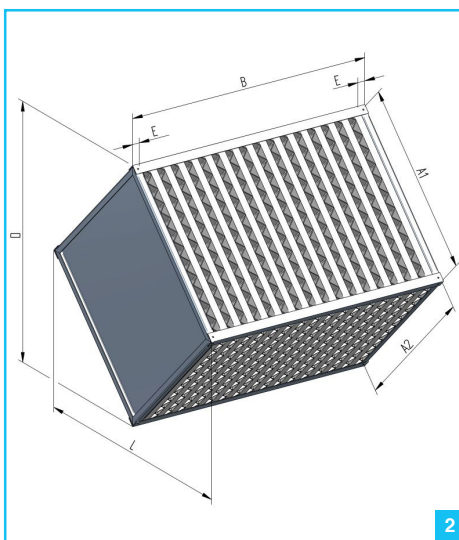


High tightness between the two airflows



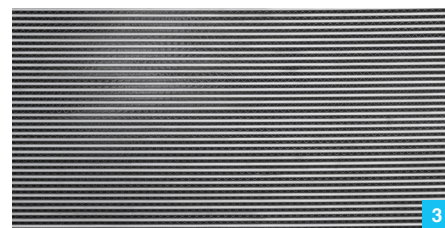
1

Flange Type (1)



2

Slide-In Type* (2)



3



4

> Fins package (3)

> Flange type with hole patterns (4)

Model		A1/A2	A1/A2*	F	B	E	M	N
	02	300 / 11.8	204 / 8	69 / 2.7	Variable	30 / 1.2	30 / 1.2	39 / 1.5
	03	400 / 15.7	304 / 11.9	69 / 2.7	Variable	30 / 1.2	30 / 1.2	39 / 1.5
	04	500 / 19.7	404 / 15.9	69 / 2.7	Variable	30 / 1.2	30 / 1.2	39 / 1.5
	05	600 / 23.6	504 / 19.8	47 / 1.85	Variable	30 / 1.2	30 / 1.2	44 / 1.7
	06	700 / 27.5	604 / 23.7	47 / 1.85	Variable	30 / 1.2	30 / 1.2	44 / 1.7
	07	800 / 31.5	704 / 27.7	79 / 3.1	Variable	30 / 1.2	30 / 1.2	49 / 1.9
	08	900 / 35.4	804 / 31.6	79 / 3.1	Variable	30 / 1.2	30 / 1.2	49 / 1.9
	09	1000 / 39.4	904 / 35.5	79 / 3.1	Variable	30 / 1.2	30 / 1.2	49 / 1.9
	10	1100 / 43.3	1004 / 39.5	79 / 3.1	Variable	30 / 1.2	30 / 1.2	49 / 1.9
	12	1300 / 51.2	1104 / 43.4	79 / 3.1	Variable	30 / 1.2	30 / 1.2	49 / 1.9
	14	1500 / 59	1404 / 55.2	79 / 3.1	Variable	30 / 1.2	30 / 1.2	44 / 1.7
	16	1800 / 70.8	1608 / 63.3	134 / 5.27	Variable	40 / 1.57	40 / 1.57	94 / 3.7
	18	2000 / 78.7	1808 / 71.1	134 / 5.27	Variable	40 / 1.57	40 / 1.57	94 / 3.7
	20	2200 / 86.6	2008 / 79	134 / 5.27	Variable	40 / 1.57	40 / 1.57	94 / 3.7
	21	2300 / 90.5	2108 / 82.9	131,5 / 5.17	Variable	40 / 1.57	40 / 1.57	91,5 / 3.6
	24	2600 / 102.3	2408 / 94.8	134 / 5.27	Variable	40 / 1.57	40 / 1.57	94 / 3.7



5

Gastight welded (5)

For applications requiring high temperature and tightness, such as heat recovery from industrial catalysts, we offer a gastight welded heat exchanger made from stainless steel. It's entirely welded using a microplasma process, eliminating the need for additional sealing materials. Various pressure tests validate its complete tightness. Temperatures exceeding 600°C / 1112°F are achievable depending on the chosen alloy.



Download RICH from our website, the design software for the stainless steel crossflow heat exchangers.

NB:

- Measurements in mm / inches
- The overall dimensions can be divided into more modules, in accordance with the spacings and weights.

Recuperator S.p.A. reserves the right to introduce alterations in its production and computer programs due to improvements in its quality and without prior notice.



Recuperator S.p.A.
via Valfurva, 13
20027 Rescaldina
Milano, Italy

tel. +39 0331 185 31
fax +39 0331 185 3000
recuperator@recuperator.eu
www.recuperator.eu

Società unipersonale soggetta all'attività di direzione e coordinamento di Carel Industries S.p.A.



member of CAREL group