

RECUPERATOR THE HEAT EXCHANGER

STAINLESS STEEL

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].

They can withstand temperatures of also over 800°C, 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.

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

Pressure difference up to 10'000Pa

Temperatures over 800°C

High tightness between the two airflows

Release: 07/2024





Slide-In Type* (2)

Fins package (3)

> Flange type with hole patterns (4)

Flange Type (1)

Model		A1/A2	A1/A2*	F	В	E	М	N
	02	300	204	69	Variable	30	30	39
	03	400	304	69	Variable	30	30	39
	04	500	404	69	Variable	30	30	39
	05	600	504	47	Variable	30	30	44
	06	700	604	47	Variable	30	30	44
	07	800	704	79	Variable	30	30	49
	08	900	804	79	Variable	30	30	49
	09	1000	904	79	Variable	30	30	49
	10	1100	1004	79	Variable	30	30	49
	12	1300	1104	79	Variable	30	30	49
	14	1500	1404	79	Variable	30	30	44
	16	1800	1608	134	Variable	40	40	94
	18	2000	1808	134	Variable	40	40	94
	20	2200	2008	134	Variable	40	40	94
	21	2300	2108	131,5	Variable	40	40	91,5
	24	2600	2408	134	Variable	40	40	94



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 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

• 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.



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