

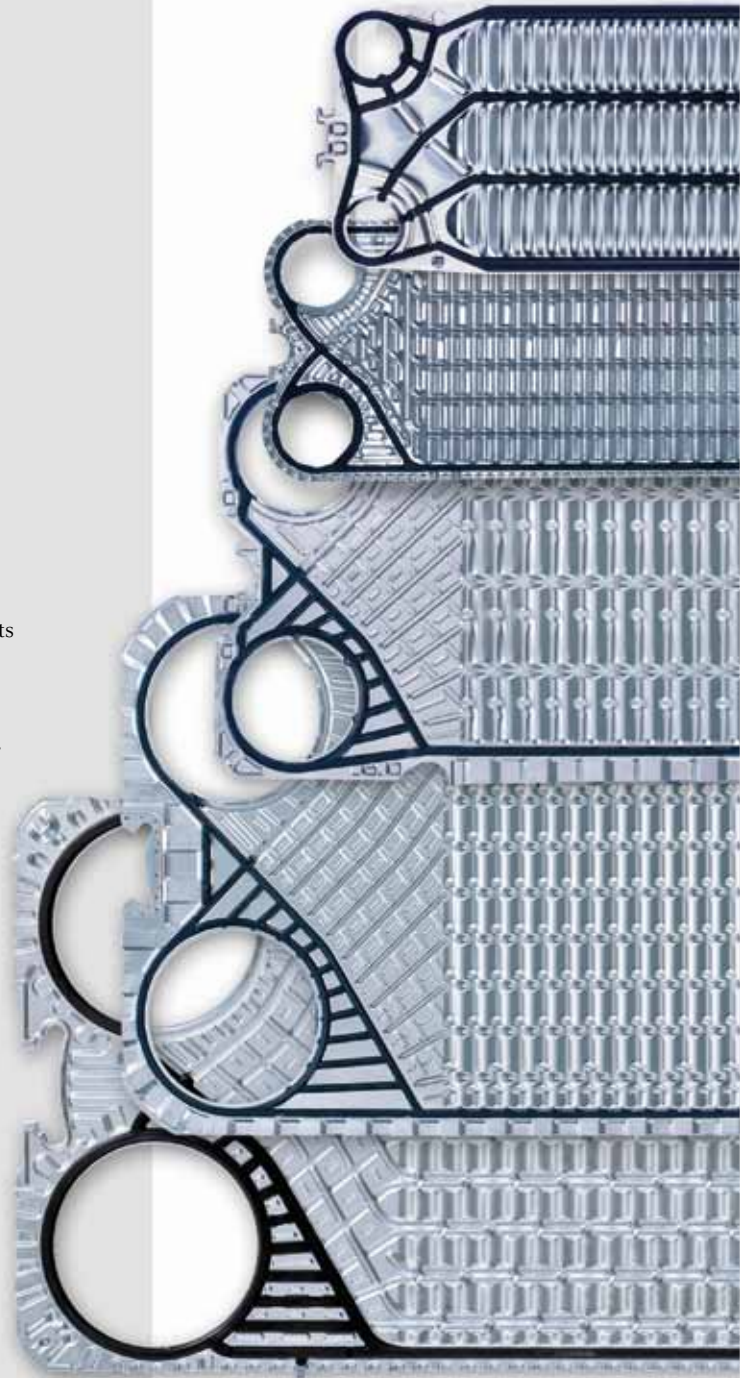
Free Flow Plate Heat Exchangers

Long service life due to free flow channels

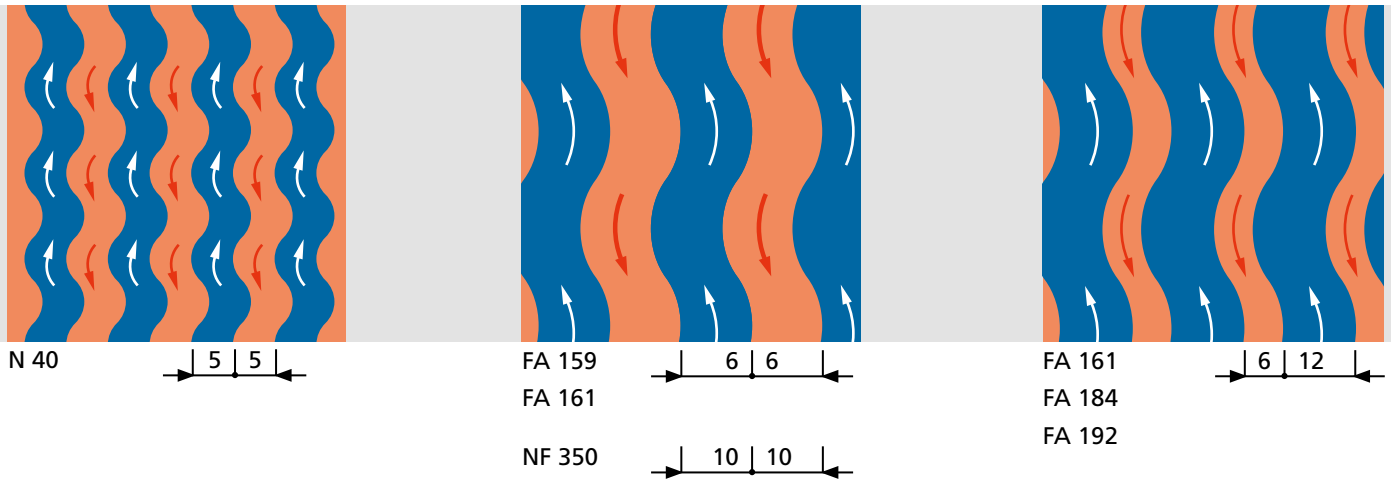
Free Flow plate heat exchangers cover those applications where conventional plate heat exchangers reach their limits. Their special features include the constant-width gap cross-section between the individual plates and the rough-wave profiling of the plates. The clearance between the plates is up to 12 mm.

Your advantages at a glance

- Operation without clogging due to constant-width gaps
- THE alternative to shell-and-tube and spiral heat exchangers due to low investment and operating costs as well as low space requirements
- FA 159 and FA 161 without metal supports
- Plates are available in different sizes, gap widths, and materials
- Gasket materials NBR und EPDM. Special gaskets, e. g. made of FPM, are available for some types
- Suitable for products containing fibres and solids (fruit juices containing fibres and pulps, waste water in the paper and pulp, textile and sugar industries as well as highly viscous products)



Cross sections of the GEA PHE Systems Free Flow plates



The Free Flow product range

Type	Width mm	Length mm	Max. volume flow m ³ /h	Max. connection sizes		Max. pressure bar	Frames			Plate material					Glueless gasket system
				painted frames DN	stainless steel frames DN		painted	stainless steel clogging	solid stainless steel	1.4401 AISI 316	1.4439 AISI 317	1.4547 254 SMO	Alloy C-276	Titanium	
FA 159	320	1082	40	50	50	6	•	•		•	•	•			
FA 161	472	1455	130	100	80	6	•	•		•	•	•			
N 40	432	1406	220	125	100	10	•	•	•	•	•	•	•	•	•
FA 184	678	1794	590	200		6	•			•	•	•	•		
FA 192	985	2305	1490	350		8	•			•					
NF 350	985	2772	1900	350		(10)	•			•					

GEA PHE Systems – Competence in Heat Transfer

With emphasis on the highest quality standards and constant innovations, GEA PHE Systems continues to expand its market position: Within the GEA Process Equipment Division, GEA Ecoflex together with GEA ViEX, GEA WTT, GEA Ecobraze, GEA PHE Systems NA and GEA EcoServe forms GEA PHE Systems, the Center of Competence and Service Center for gasketed, fully welded and brazed plate heat exchangers of GEA Group:

- HVAC
- Refrigeration
- Sugar
- Chemical
- Paper
- Food
- Power
- Marine
- General Industry
- Renewable Energy

The specifications contained in this printing unit are intended only to serve the non-binding description of our products and services and are not subject to guarantee. Binding specifications, especially pertaining to performance data and suitability for specific operating purposes, are dependent upon the individual circumstances at the operation location and can, therefore, only be made in terms of precise requests.

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