

# FREE FLOW Plate Heat Exchangers

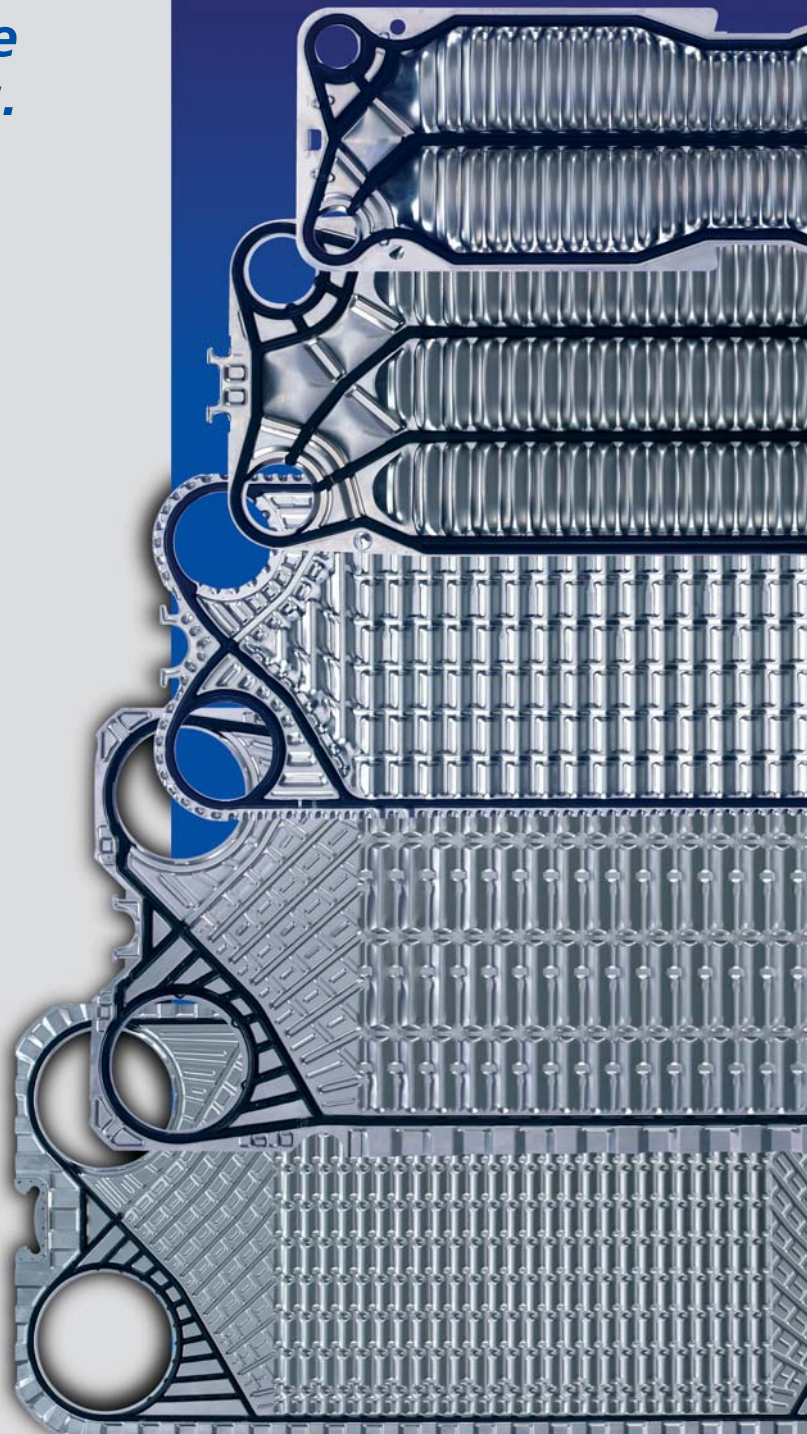
*Your benefit:*

***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/0,47").

***The FREE FLOW  
product range  
offers you the following features:***

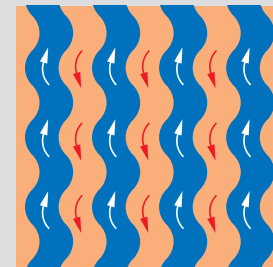
- Operation without clogging due to constant-width gaps
- THE alternative to shell-and-tube and spiral heat exchangers due to
  - low investment and operating costs
  - low space requirement
- FA 159 and FA 161 without metal supports
- Plates are available in different sizes, gap widths, and materials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



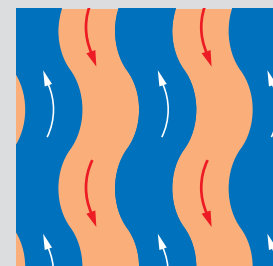
## Specifications

		FA 159	FA 161	N 40	FA 184	FA 192
Plate length	mm/inch	1082/42.6	1455/57.3	1406/55.4	1794/70.6	2305/90.7
Plate width	mm/inch	320/12.6	472/18.6	432/17	678/26.7	985/38.8
Max. flow rate	m <sup>3</sup> /h/gpm	35/154	115/506	220/968	550/2422	1350/5944
Connection sizes (max.)	Painted frame	50/2"	100/4"	125/5"	200/8"	350/14"
	Stainless steel frame	50/2"	80/3"	100/4"		
Max. operating pressure	bar/psi	6/87	6/87	10/145	6/87	8/116
Frames	Painted	•	•	•	•	•
	With stainless steel facing	•	•	•		
	Completely made of stainless steel			•		
Plate material	1.4401/ AISI 316	•	•	•	•	•
	1.4439/ AISI 317	•	•	•	•	
	1.4547/ 254 SMO	•	•	•	•	
	Hastelloy C-276			•	•	
	Titanium			•		
Glueless gasket system			•			

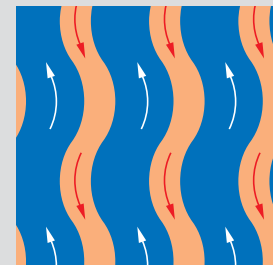
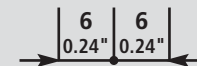
## Cross-sections of GEA Ecoflex FREE FLOW plates



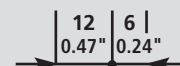
N 40



FA 159  
FA 161



FA 161  
FA 184  
FA 192



### GEA Ecoflex GmbH

For more than 75 years, GEA Ecoflex has been developing customer-oriented and cost-optimised plate heat exchanger solutions for the following fields of application:

- HVAC
- food
- refrigeration
- life science
- sugar
- marine
- chemical
- power
- paper



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