

		LWC 100 T	LWC 150 S	LWC 150 L	LWC 250 S	LWC 250 L
Length	mm	905	1323	1803	1731	2325
Width	mm	425	545	545	745	745
Connection		DN 100	DN 150	DN 150	DN 250	DN 250
Max. volume flow	m <sup>3</sup> /h	155	350	350	900	900
Max. pressure	bar	25				
Plate material		AISI 316, W 1.4401				
Main body gasket		Laser welded, EPDM, NBR				
Port ring gasket		Neoprene (CR), LT-NBR, HNBR				
Frame		B-line (extended design: 10, 16, 25 bar)				

Technical questions? Our engineering support team will be pleased to provide you with any further information you require – especially if you are faced with a problem where a standard solution does not seem appropriate. Please call us.

**GEA Ecoflex**

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
- general industry
- refrigeration
- sugar
- chemical
- textile
- pulp / paper
- food
- pharmaceutical
- marine
- power

Your contact:

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.

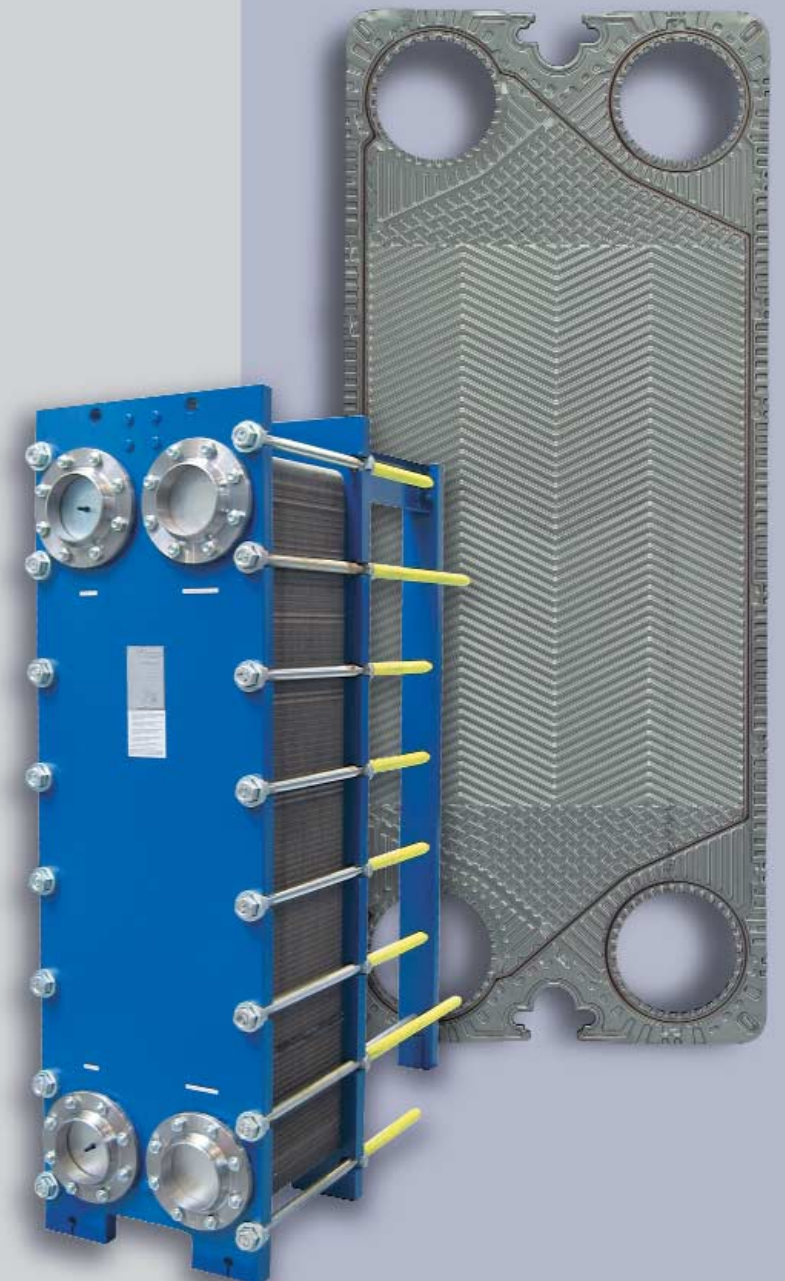
## LWC Plate Heat Exchangers

Explore new opportunities with LWC.

New applications demand ever-increasing performance. In response to the call, GEA Ecoflex remains in the forefront of technological development. Because conventionally sealed plate heat exchangers quickly reach their limits with critical media, GEA Ecoflex provide the answer – the new **Laser Welded Cassette (LWC)** plate heat exchanger.

Aggressive media types can now flow freely. The LWC range is based on the NT-plate technology and benefits from the very latest computational, design and manufacturing techniques. An innovative flow path geometry ensures outstanding heat transfer, by providing an optimum geometry through which the media can flow.

As the industry has now come to expect from GEA Ecoflex, the LWC heat exchanger is made using only high-grade materials and is available in various plate length alternatives. These new products offer high performance, compact design and low weight. They are technically advanced and economically attractive. GEA Ecoflex has set a new standard. Now learn what we can do for you.



Technical modification reserved. LWC plate heat exchangers E 06/03 inform advertising

Quality that  
deserves a  
closer look.



**Laser Welded Cassette –  
welds that take the pressure.**

Created with computer-guided precision, the laser-welded seam hermetically seals the flow field. In contrast to normally sealed units, the cassettes remain immune to aggressive media. Each cassette is subject to a strict quality control procedure that ensures the strictest safety standards.

**EcoLoc-system – seals that last longer.**

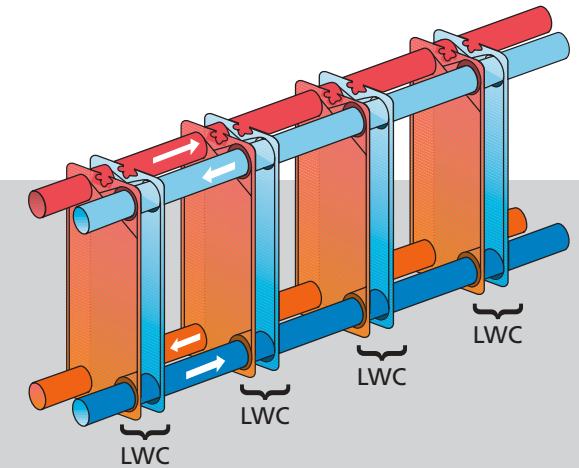
Neoprene sealing rings with a high resistance to chemical attack are fitted to the joints of the laser-welded cassettes. The EcoLoc-system 'hides' these seals in a special groove, minimising direct contact with the medium and extending their life. The sealing rings also provide access for cleaning, and improve stability against thermal tension.



**The technology of separate paths.**

LWC plate heat exchanger works on the principle of 100% separate flow paths. The critical medium moves through a hermetically welded flow path, transferring heat to the less critical medium in its own, conventional sealed path. Without this strict separation, many industrial applications simply would not be possible.

High efficiency  
needs intelligent  
technology.



**The OptiWave-Design principle.**

This innovative flow path geometry generates turbulence in the media flowing through the gaps. This results in very high efficient heat transfer with minimum pressure drop. Excellent heat transfer is possible - even with moderate flow rates. Plate types with different heat transfer values are available for different applications.



**Points in favour of using LWC plate  
heat exchangers.**

- Excellent compatibility with critical media.
- Low investment – high heat transfer
- Long service life through use of new materials and technologies
- Advanced technology for reliable operation
- Easy installation – easy access for cleaning
- Outstanding cost/benefit performance