Process Equipment Division

GEA Ecoflex

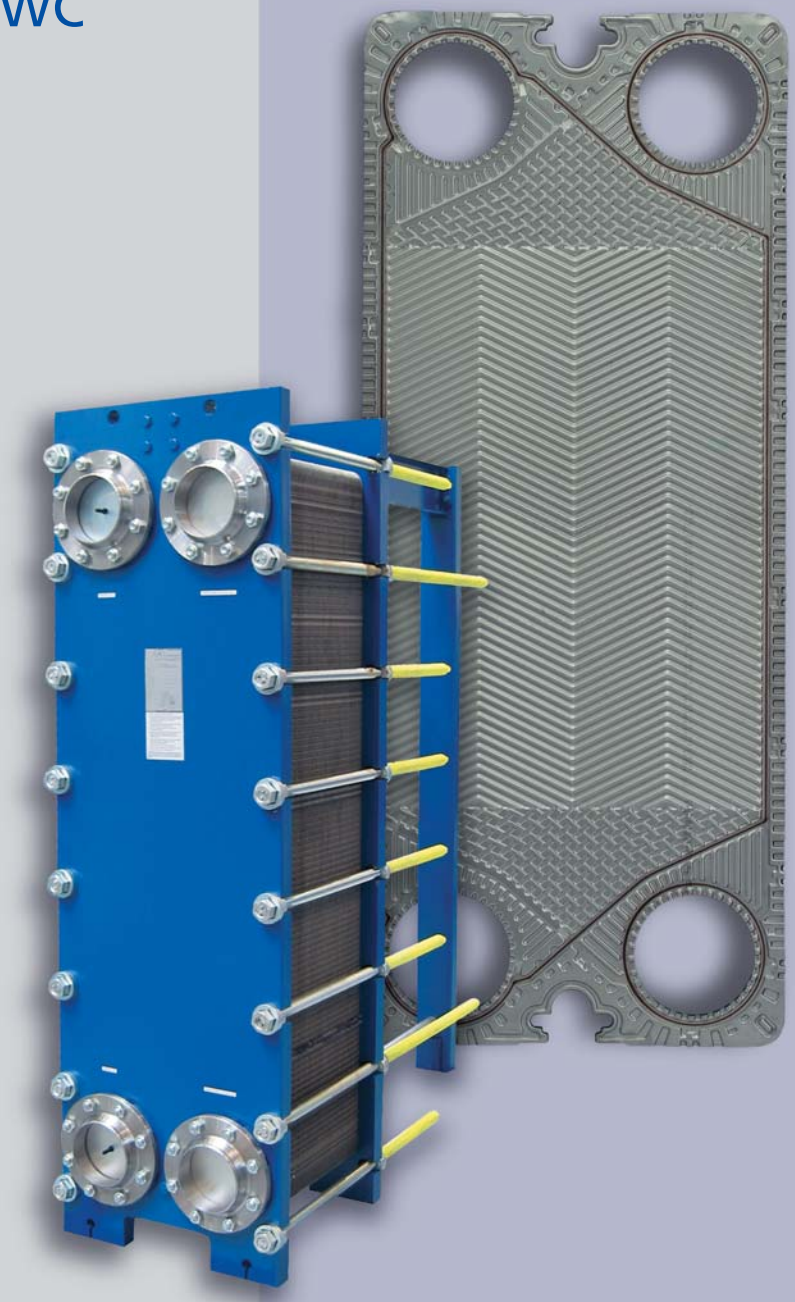
LWC Plate Heat Exchangers

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.



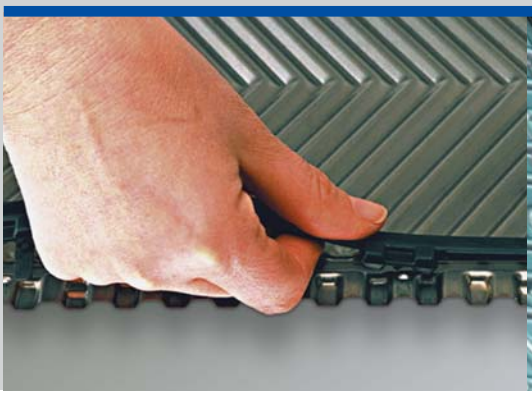
Quality that deserves a closer look

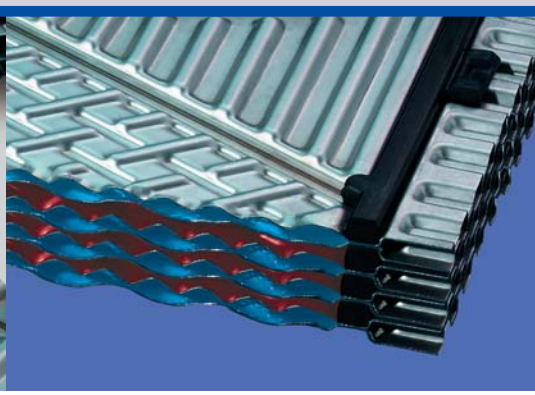
Laser Welded Cassette –
welds that take the pressure.

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.

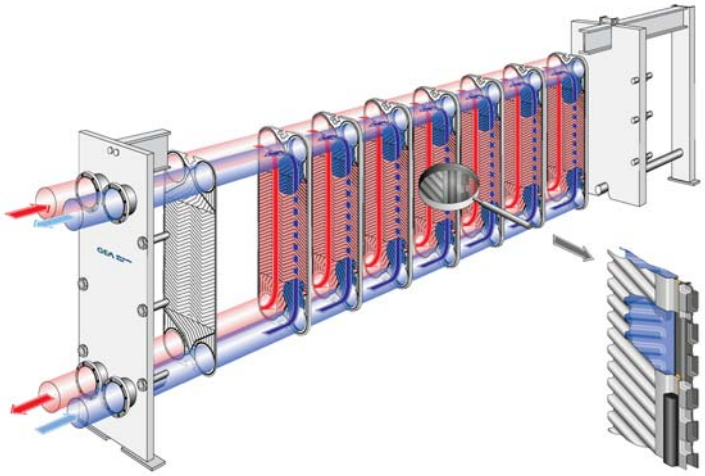




High efficiency needs intelligent technology

The technology of separate paths.

LWC plate heat exchangers work 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.



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

		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^3/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)**				

Do you have any technical questions? Our application engineers will be glad to provide you with more detailed information. They will also assist you in solving specific problems which appear impossible to solve with standard equipment.
Contact our specialists at +49 (0) 50 66 / 6 01-0

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**
- **refrigeration**
- **sugar**
- **chemical**
- **paper**
- **food**
- **life science**
- **marine**
- **power**
- **ethanol**

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