

LWC Plate Heat Exchangers

Explore new opportunities with Laser-Welded Cassettes

New applications demand ever-increasing performance. In response to the call, GEA PHE Systems remains in the forefront of technological development. Because conventionally sealed plate heat exchangers quickly reach their limits with critical media, GEA PHE Systems provides the answer – the new Laser-Welded Cassettes (LWC) plate heat exchanger. Aggressive media types can now flow safely. The LWC range is based on the NT plate technology and benefits from the very latest computational design and manufacturing techniques.

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.

Your advantages at a glance

- 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



Features and advantages

OptiWave-design

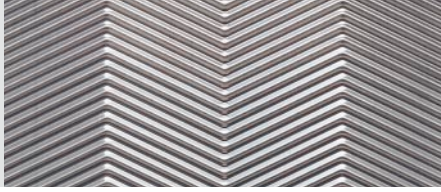
The optimised corrugation leads to a good fluid distribution across the whole plate width. This leads to the highest heat exchange rates being achieved with the lowest pressure drop.

Laser-Welded Cassettes

Created with computer-guided precision, the laser-welded seam hermetically seals the flow field.

EcoLoc-gasket system

The new, glueless EcoLoc gasket ensures a quick and uncomplicated exchange of gaskets.



The LWC product range

Type	Width mm	Length mm	Connection DN	Max. volume flow m ³ /h	Max. pressure bar	Plate material	Main body gasket	Port ring gasket	Frame
LWC 100 T	445	897	100	190	25	1.4301 AISI 304 1.4404 AISI 316L Titanium *	laser-welded EPDM NBR HNBR LT-NBR *	Neoprene (CR), EPDM NBR HNBR LT-NBR *	B Series (extended versions: 10, 16, 25 bar)
LWC 100 X	445	1711	100	190					
LWC 150 S	545	1323	150	380					
LWC 150 L	545	1803	150	380					
LWC 250 S	745	1736	250	970					
LWC 250 L	745	2330	250	970					

* Others on request

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

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Your contact:



Av. Belgrano 2487 - B1611DVD - Bs. As. - Argentina
Te.: + 54 11 4727 2000 - Fax: + 54 11 4727 2200
www.edelflex.com - e-mail: info@edelflex.com



GEA Ecoflex GmbH

Karl-Schiller-Straße 1-3 · 31157 Sarstedt · Germany
Phone +49 5066 601-0 · Fax +49 5066 601-104
info@gea-ecoflex.com · www.gea-phe.com