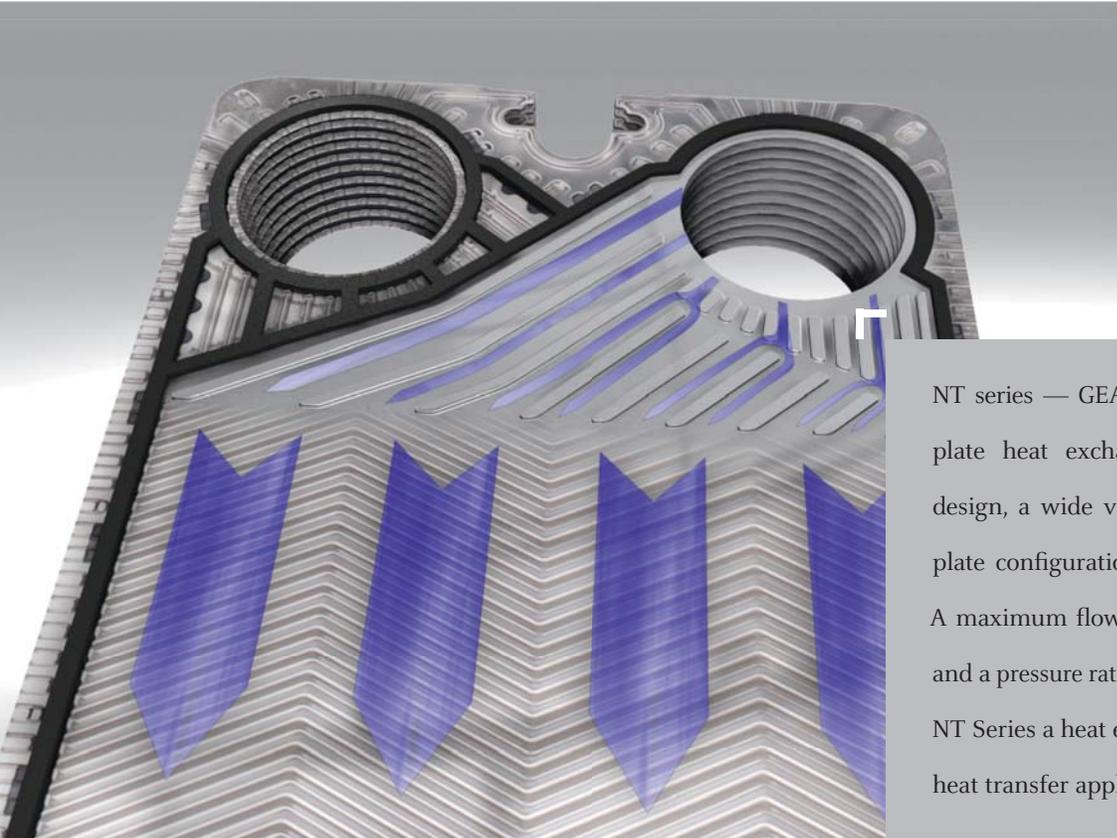




## Gasketed Plate Heat Exchangers

### NT Series: The Most Versatile Heat Transfer Plate



NT series — GEA's most versatile gasketed plate heat exchanger features advanced design, a wide variety of material choices, plate configurations, and connection sizes. A maximum flow rate of over 20,000 gpm and a pressure rating up to 360 psi makes the NT Series a heat exchanger suited for many heat transfer applications.

#### NT Series Features

The NT plate is a technologically advanced heat transfer plate with features for efficient processing of all products, including those with high viscosities and fouling tendencies.

**PosLoc™**—Heat transfer plates have multiple lead-ins that ensure self-alignment of the plate pack for ease in closing. This feature reduces downtime when servicing the unit.

**EcoLoc™**—Adhesive-free gasket attachment makes replacement a snap. A special design keeps gaskets in place even after several service cycles.

**OptiWave™**—Computer-modeled heat transfer area design provides even flow distribution across the entire plate surface, maximizing heat transfer while minimizing fouling rates, plate count, and cost.

- Port sizes range from 1" to 20"
- Heat Transfer Plate: 316L or 304 Stainless, Titanium, Hastelloy, 904L, SMO254, and others
- Plate Thickness: 0.4 to 0.6mm
- Gasket Options: NBR, EPDM, Viton, and others
- Vertical, horizontal and medium-corrugation plate patterns
- Standard Design Temperature up to 330° (170° C)
- Features for easier maintenance
- High resistance to fouling for less-than perfect media



## What Makes OptiWave™ Better?

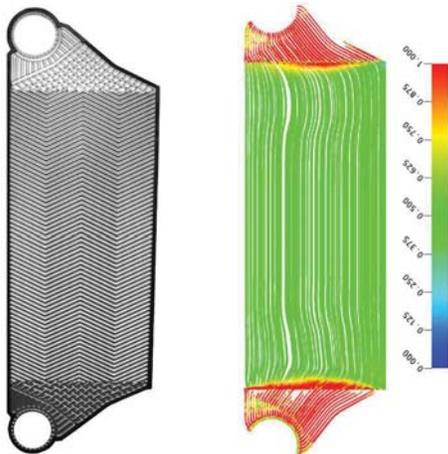
Superior design. Conventional plates allow most media to flow directly from one port to the other, reducing the flow in the corner farthest from the inlet port. This “short circuiting” reduces the full use of the available heat transfer area, which will require more plates and have lower U-Value when compared to Opti-Wave. OptiWave plates provide even media flow over the entire width of the plate. This is accomplished through better fluid distribution which allows GEA’s Optiwave plate to make full use of the available heat transfer area. Improved distribution will also reduce the required surface area providing higher U-Values and lower capital costs for customers. The result? OptiWave plates deliver better return on investment.

**OptiWave Design Distribution**  
Even velocity across the entire plate width.

**Conventional Design Distribution**  
Low velocity at the far corner reduces plate performance.



CFD Modeling (NT100M shown)



## GEA Heat Exchangers

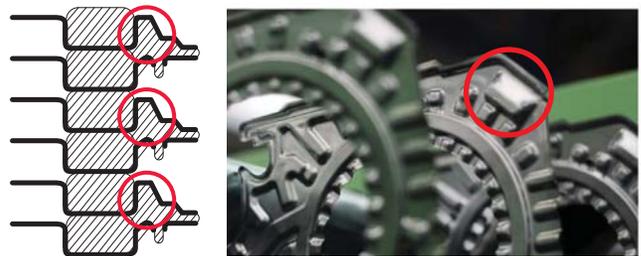
### GEA PHE Systems

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## Why PosLoc™ Is The Best In The Industry

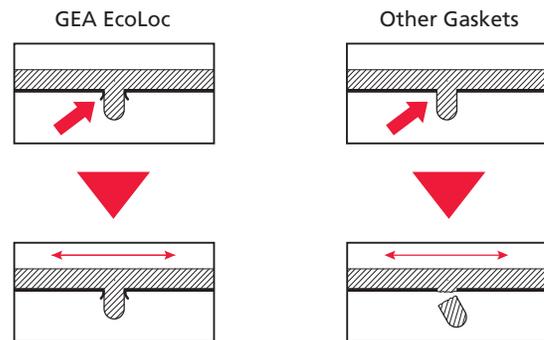
Plates with PosLoc™ allow the PHE to tightly seal every time it is closed. The plate pack has corner lead-ins that use the compression force of the pressure plates to self-align the heat transfer plates, virtually eliminating plate pack snaking. Shoulders on all gasket flaps cradle each plate as the unit closes and bring the plate pack into alignment. PosLoc™ plate packs will self-align even if the frame is out of alignment, and after repeated servicing. The benefit to you is years of smooth and hassle free maintenance and operation.

### Plate Alignment Guides



## How EcoLoc™ Can Help You

Our gaskets work in perfect combination with our plates to ensure worry free operation. Our chamfered opening allows each gasket to settle into position and prevents the lock tab from being severed. Gaskets can be easily installed without tools or adhesive, and self-seat during closing. It takes just seconds to replace the gaskets making maintenance quick and easy.



The specifications contained in this printing 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.

### About GEA:

GEA Heat Exchangers provides one of the most extensive product portfolios in the heat exchange market worldwide for a wide range of applications. GEA Heat Exchangers manufactures plate, shell and tube, air-cooled heat exchangers, air filter systems, synthetic fillings for numerous areas of application, wet cooling towers and dry cooling systems, as well as air-conditioning facilities. As a result, GEA Heat Exchangers provides reliable and comprehensive coverage of the entire spectrum for heat exchange.

