

# NT Plate Heat Exchangers

## Application:

Within PHE Systems' Ecoflex® product group, the NT series is a gasketed plate heat exchanger for multiple applications. Variety of materials that work across a broad range of liquids, temperatures and pressures. Well-suited for these liquid-to-liquid applications:

HVAC	chemical	sugar	marine
food	renewable energy	power	

## Benefits:

### Versatility—

- The right design, not a “good enough” design. A wide variety of materials, sizes, and plate configurations combine with sophisticated selection software to ensure a perfect selection, whatever your needs.
- The compact footprint allows you to use it in locations that you wouldn't dream of with a shell-and-tube heat exchanger.

### Higher Performance at a Lower Cost—

- Optiwave™ plate corrugations distribute the liquid evenly across the entire plate width, maximizing heat transfer and minimizing the number of plates (and cost) required.

### Peace of Mind—

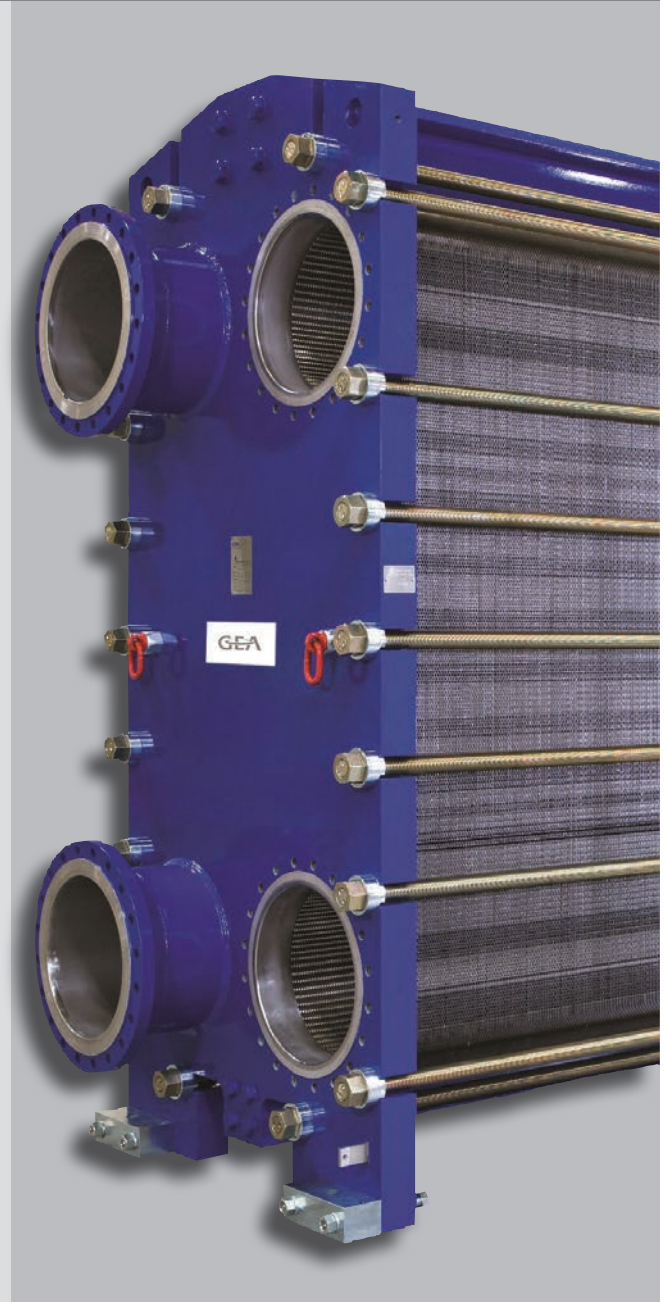
- Over 75 years of experience in crafting high performance plate heat exchangers.
- Independent performance certification to ASME and other standards.

### Convenient Maintenance—

- PosLoc™ plate lead-ins cause the plate pack to self-align when re-installing.
- Ecoloc™ tools-free gaskets make gasket replacement a snap.
- Individual plates mean no heavy lifting tools are needed. Faster more efficient maintenance, with shorter down times.

### Long Service Life—

- Careful corrugation design provides the ideal balance of high turbulence and proper fluid distribution, reducing fouling from less-than-perfect media.



## NT Series: Technical data

**Heat Transfer Plate:** 316L Stainless, 304 Stainless, Titanium, Hastelloy, 904L, SMO 254, and others on request.

**Gasket:** NBR, EPDM, Viton, and others on request.

**Pressure Plate:** Carbon Steel, Stainless Steel, and others on request.

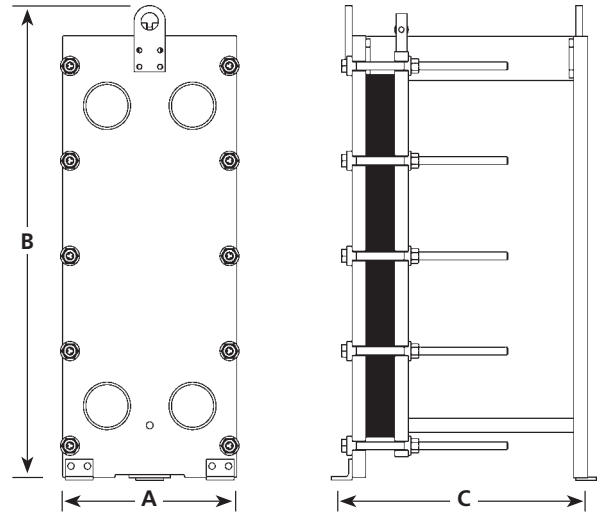
**Port Connection:** Unlined, Metal Lined (Stainless, Titanium and others on request), Welded Neck Flange, threaded nipple, and others on request.

**Maximum Design Pressure:** Maximum design pressure is 300 psig (21 bar). Depending on application.

**Maximum Design Temperature:** Maximum standard design temperature is 330°F (170°C). Higher temperatures are available on request.

### Approximate Maximum Liquid Flow Rate:

- NT50: 175 gpm (40m<sup>3</sup>/hour)
- NT100: 830 gpm (190m<sup>3</sup>/hour)
- NT150: 1540 gpm (350m<sup>3</sup>/hour)
- NT250: 3960 gpm (900m<sup>3</sup>/hour)
- NT350: 8380 gpm (1900m<sup>3</sup>/hour)
- NT500: 20,000 gpm (4000m<sup>3</sup>/hour)



Model	Connection Size	Dim. A	Dim. B	Dim. C
NT 50 T	2" nominal (DN50)	12.7" (323mm)	26.6" (675mm)	Up to 44" (1120mm)
NT 50 M			40.4" (1025mm)	
NT 50 X			54.9" (1395mm)	
NT 100 T	4" nominal (DN100)	23.0" (584mm)	51.1" (1298mm)	Up to 158" (4013)
NT100 M			67.5" (1716mm)	
NT100 X			83.52" (2121mm)	
NT150 S	6" nominal (DN150)	26.2" (665mm)	70.1" (1781mm)	Up to 159" (4039mm)
NT150 L			89.4" (2271mm)	
NT250 S	10" nominal (DN250)	35.2" (895mm)	89.5" (2273mm)	Up to 159" (4039mm)
NT250 M			99.6" (2529mm)	
NT250 L			112.8" (2866mm)	
NT350 S	14" nominal (DN350)	44.7" (1134mm)	115.4" (2930mm)	Up to 238" (6045mm)
NT350 M			128.6" (3267mm)	
NT350 L			141.9" (3604mm)	
NT500 T	20" nominal (DN 500)	55" (1397mm)*	128" (3251mm)*	290" (7366mm)*
NT500 M			152" (3861mm)*	
NT500 X			176" (4470mm)*	

\*Approximate, varies with design requirements.

The specifications contained in this printing are intended only to serve the nonbinding description of our products and services 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.

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