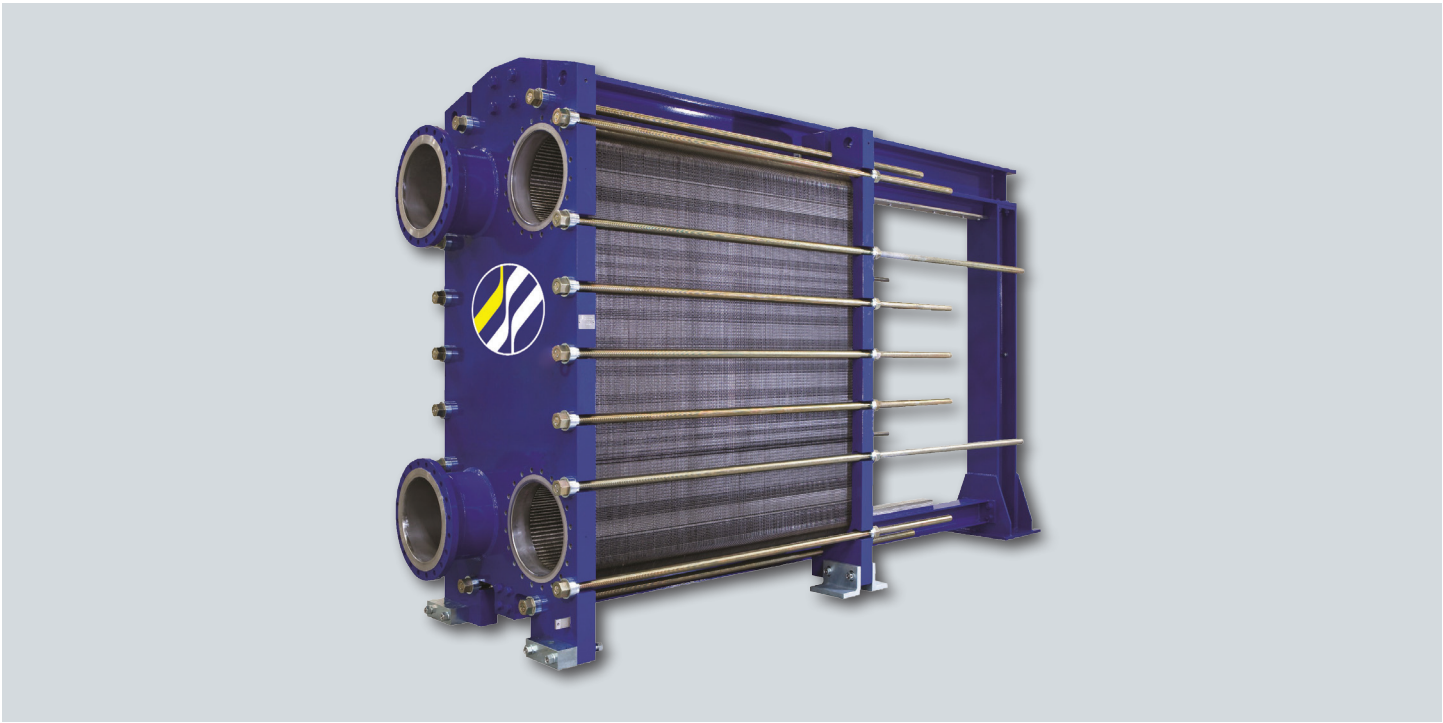
Kelvion

Gasketed Plate Heat Exchangers

NT SERIES: THE MOST VERSATILE PHE



Kelvion's NT Series is our most advanced gasketed plate heat exchanger. It features compact designs, wide varieties of material choices, plate configurations, and connection sizes. Maximum flow rate up to 20,000 gpm. Pressure rating up to 360 psi makes the NT Series a versatile heat exchanger suited to a wide variety of heat transfer applications.

The interior **NT Plates** are the most technologically advanced heat transfer plates on the market with features for efficient processing of all products, including those with high viscosities and fouling tendencies.

NT Features:

- Wide variety of material and design choices
- Compact footprint
- Higher performance at a lower cost
- Easier maintenance features
- Reduced fouling rate for less-than perfect media
- 3D drawings available

NT Series: Technical Data

Heat Transfer Plate: 316L Stainless, 304 Stainless, Titanium, Hastelloy, 904L, SMO 254, and others are available

Gasket: NBR, EPDM, Viton, and others are available

Pressure Plate: Carbon Steel, Stainless Steel, and others are available

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

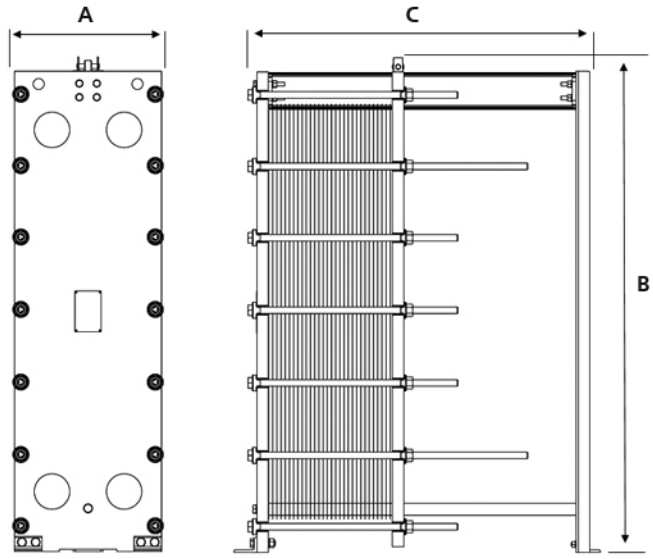
Maximum Standard Design Pressure: 360 psig (25 bar) Higher pressures are available, depending on application

Maximum Standard Design Temperature: 330°F (170°C) Higher temperatures are available

Approximate Maximum Liquid Flow Rate:

NT25: 50 gpm (11 m^3/hour)
NT50: 200 gpm (45 m^3/hour)
NT80: 500 gpm (110 m^3/hour)
NT100: 800 gpm (180 m^3/hour)
NT150: 1770 gpm (400 m^3/hour)
NT250: 4900 gpm (1110 m^3/hour)
NT350: 9600 gpm (2180 m^3/hour)
NT500: 20,000 gpm (4450 m^3/hour)

Additional Options: Inline Strainer, Backflush Valve, Drip Tray, Insulation and Shroud.



*Approximate, varies with design requirements
*NT150 shown. Lifting point locations vary by model

	Nominal	A	B	C
NT 25 M	1"	7.1" (180 mm)	22.5" (572 mm)	Up to 18" (457 mm)
NT 50 T	2"	12.7" (323 mm)	26.6" (675 mm)	Up to 44" (1120 mm)
NT 50 M			40.4" (1025 mm)	
NT 50 X			54.9" (1395 mm)	
NT 80 M	3"	17.1" (435 mm)	49.8" (1266 mm)	Up to 127" (3230 mm)
NT 100 T	4"	23.0" (584 mm)	51.1" (1298 mm)	Up to 158" (4013 mm)
NT 100 M			67.5" (1716 mm)	
NT 100 X			83.52" (2121 mm)	
NT 150 S	6"	26.2" (665 mm)	70.1" (1781 mm)	Up to 159" (4039 mm)
NT 150 L			89.4" (2271 mm)	
NT 250 S	10"	35.2" (895 mm)	89.5" (2273 mm)	Up to 159" (4039 mm)
NT 250 M			99.6" (2529 mm)	
NT 250 L			112.8" (2866 mm)	
NT 350 S	14"	44.7" (1134 mm)	115.4" (2930 mm)	Up to 238" (6045 mm)
NT 350 M			128.6" (3267 mm)	
NT 350 L			141.9" (3604 mm)	
NT 500 T	20"	55" (1397 mm)	128" (3251 mm)	Up to 290" (7366 mm)
NT 500 M			152" (3861 mm)	
NT 500 X			176" (4470 mm)	

What Makes OptiWave™ Better?

Superior design. Conventional plates allow 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 effective use of the available heat transfer area, potentially requiring more heat transfer plates and lowering the heat transfer coefficient when compared to Optiwave. Optiwave plates provide even media velocity over the entire width of the plate via enhanced fluid distribution allowing the Optiwave plate to make full use of the available heat transfer area. Improved distribution can also reduce the required surface area providing higher heat transfer coefficients, lower capital costs for customers, and longer run times. Plates with Optiwave deliver a better return on investment.

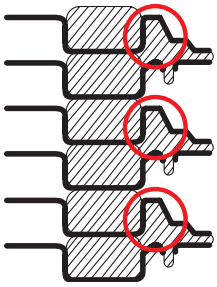
Conventional Design Distribution
Low velocity at the far corner reduces plate performance.

OptiWave Design Distribution
Even velocity across the entire plate width.

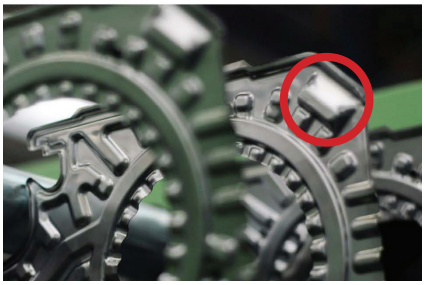
Why PosLoc™ Is The Best In The Industry

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



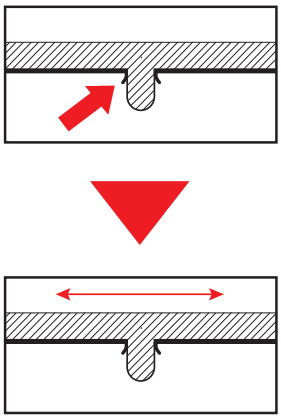
Corner Lead-Ins



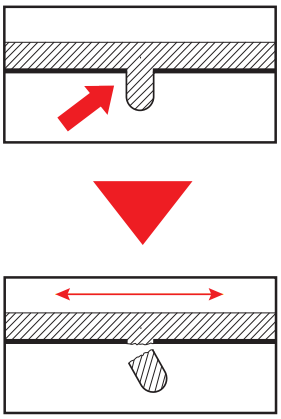
How EcoLoc™ Can Help You

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 unit closing. It takes just seconds to replace a gasket making maintenance quick and easy.

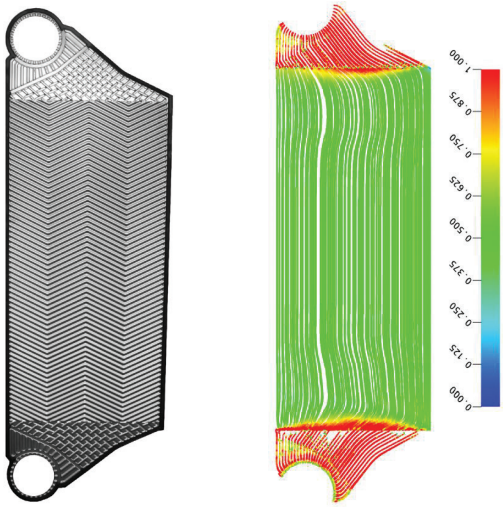
Kelvion EcoLoc Gaskets



Other Gaskets



CFD Modeling (NT100M shown)



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