

## Sanitary Plate Heat Exchangers

### NT100 with SYBC Frame



*NEW*— The *NT100 SYBC* is a stainless steel clad frame design with 4" connections that is offered in multiple lengths and two heat transfer plate sizes, the *NT100M* and *NT100X*. These features allow for optimal design for higher flow rate applications. Both frames are equipped with eight 4" tri-clamp connections as standard to allow for ease of restreaming and expansion.

#### NT Flow Plate Features

The NT plate is the most 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.

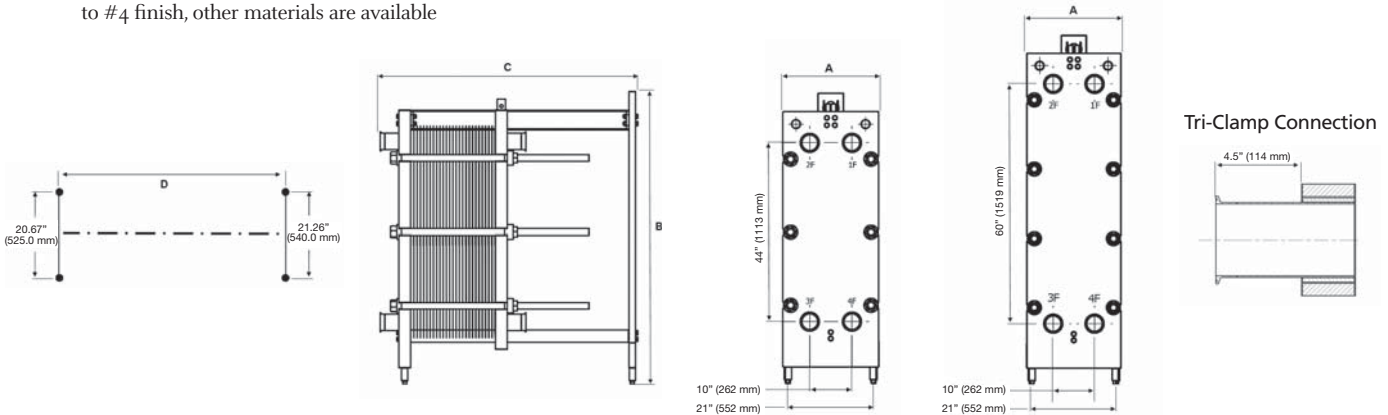
#### NT100 Sanitary Frame Features

- Meet 3-A Sanitary Standards
- Max design pressure 225 psig (15 barg)
- Max flow rate 830 gpm (190 m<sup>3</sup>/hour)
- Heavy duty cladding with 150 grit blast finish
- 4" tri-clamp connections, 316 stainless steel
- #4 finish on all 8 ports, meeting 3-A requirements
- Frame lengths for up to 675 plates available
- Grids available for multi-section designs
- ASME code stamp available
- Made in USA

## NT100 Sanitary Frame: Technical Data

- Frame Lengths:** 3 standard lengths for a maximum of 299 plates; extended reinforced lengths up to 675 plates are available
- Mounting Feet:** Adjustable ball foot, + 1.5" (+ 38 mm) total adjustment
- Frame Plate Material:** Stainless steel cladding on carbon steel core
- Frame Surface:** 150 grit bead blasted, 304 or 316 stainless steel
- Upper Beam:** 304 stainless steel I-beam
- Lower Beam:** 304 stainless steel rectangular tube
- Tightening Bolt Material:** SA-193 B8 stainless steel with C464 Naval Brass Nut
- Standard Connections:** 4" tri-clamp, 316 stainless steel polished to #4 finish, other connections are available
- Grid Connections:** 2.5" (63 mm) tri-clamp, 316 stainless steel polished to #4 finish, other materials are available

- Grid Thickness:** 3.94" (100 mm) equals 28 flow plates (based on 0.6mm flow plates)
- Codes:** Meets 3-A sanitary standard. ASME code stamp available upon request
- Port Height:** Dimensions shown are for standard frame. High leg frames are available
- Maximum Standard Design Pressure:** 225 psig (16 barg)
- Maximum Standard Design Temperature:** NBR gaskets 250° F (121° C)
- Maximum Standard Flow Rate:** 830 gpm (190 m<sup>3</sup>/hour)
- Heat Transfer Plate:** 0.6mm, 316L Stainless Steel as standard, Titanium, Hastelloy, 904L, SMO254, and others are available
- Gasket:** FDA and 3-A compatible NBR, EPDM, Viton and others are available



Model	Tightening Bolts	Max Plate Count	Max Plate Pack Dims	Net Weight (no plates)	Grid Thickness	Grid Weight	Standard Frame Dimensions inches (mm)				Frame Footprint
							A (width)	B (height)	C (Length)	D (Length)	
NT100 M	6	49	6.9" (175 mm)	2484 lbs	3.94" (100 mm) (28 plates*)	154 lbs	23.4" (594 mm)	71.3" + 1.5" (1811 mm + 38 mm)	38.1" (968 mm)	31.2" (792 mm)	31.2" (792 mm)
		174	24.4" (620 mm)	2513 lbs					61.8" (1570 mm)	54.8" (1392 mm)	
		299	41.9" (1064 mm)	2541 lbs					85.4" (2169 mm)	78.4" (1992 mm)	
NT 100 X	8	47	6.6" (168 mm)	3545 lbs	3.94" (100 mm) (28 plates*)	214 lbs	23.4" (545 mm)	87.4" + 1.5" (2220 mm + 38 mm)	38.1" (968 mm)	31.2" (792 mm)	31.2" (792 mm)
		172	24.1" (612 mm)	3637 lbs					61.8" (1570 mm)	54.8" (1392 mm)	
		297	41.6" (1057 mm)	3729 lbs					85.4" (2169 mm)	78.4" (1992 mm)	

\*Data is based on 0.6mm flow plates



## GEA Heat Exchangers

### GEA PHE Systems

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