

Sanitary Plate Heat Exchangers NT50M with SYCS Frame



NEW— The *NT50-SYCS* frame is a solid 304 stainless steel frame with eight 2" tri-clamp connections as standard. All connections are #4 finish. The frame comes in 3 standard lengths with only four easy-to-handle tightening bolts. Grids allow for multi-sectional designs, making this a reliable choice for all sanitary applications with flow rates up to 175 gpm.

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.

NT50M Sanitary Frame Features

- Meet 3-A Sanitary Standards
- Max design pressure 150 psig (10 barg)
- Max flow rate 175 gpm (40 m³/hour)
- Stainless steel with 150 grid blast finish
- 2" tri-clamp connections, 316 stainless steel
- #4 finish on all 8 ports, meeting 3-A requirements
- Frame length for up to 250 plates available
- Grids available for multi-section designs
- ASME code stamp available
- Made in USA

NT50M Sanitary Frame: Technical Data

Frame Lengths: 3 standard lengths for a maximum of 189 plates; extended reinforced lengths up to 250 plates are available

Mounting Feet: Adjustable ball foot, adjustment range 15" (283 mm) + 0.75" (+ 19.1 mm)

Frame Plate Material: 304 stainless steel solid frame

Frame Surface: 150 grit bead blasted

Upper Hanging Beam: 304 stainless steel round bar

Lower Carrying Beam: 304 stainless steel round bar

Tightening Bolt Material: SA-193 B8 stainless steel with C464 Naval Brass Nut

Standard Connections: 2" tri-clamp, 316 stainless steel polished to #4 finish, other connections are available

Grid Connections: 1.5" (38 mm) tri-clamp, 316 stainless steel polished to #4 finish, other materials are available

Grid Thickness: 2.17" (55 mm) equals 16 flow plates (based on 0.6mm flow plates), meeting 3-A standards

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

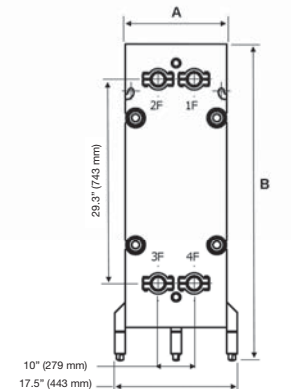
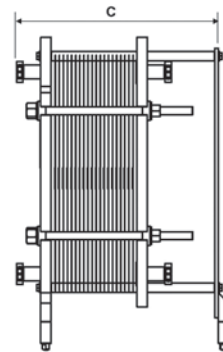
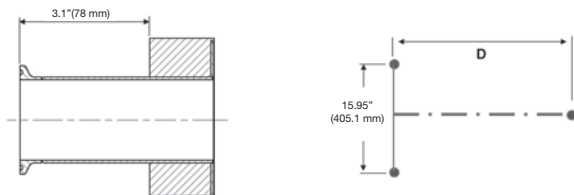
Maximum Standard Design Pressure: 150 psig (10 barg)

Maximum Standard Design Temperature: 250° F (121° C)

Maximum Standard Flow Rate: 175 gpm (40 m³/hour)

Heat Transfer Plate: 0.6mm, 316L Stainless Steel is 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 Width	Grid Weight	Standard Frame Dimensions inches (mm)				Frame Footprint
							A (width)	B (height)	C (Length)	D (Length)	
NT50 M	4	38	9.6" (244 mm)	592 lbs	2.17" (10 plates*)	40 lbs	17.45" (443 mm)	45.4" + 0.75" (1153 mm + 19 mm)	Up to 28.7" (729 mm)	25.6" (650 mm)	
		102	18.1" (460 mm)	622 lbs					Up to 40.5" (1029 mm)	37.4" (950 mm)	
		166	26.5" (673 mm)	645 lbs					Up to 52.3" (1328 mm)	49.2" (1250 mm)	

*Data is based on 0.6mm flow plates



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