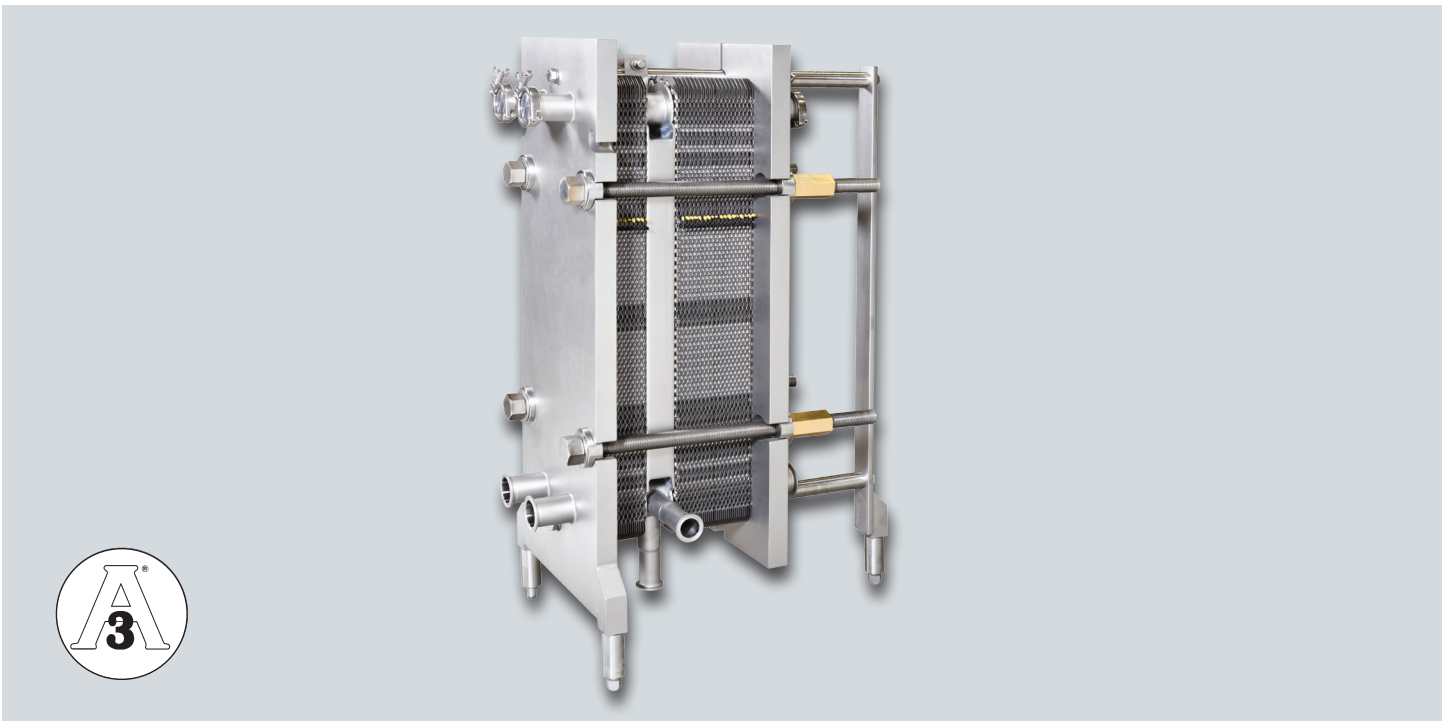


Kelvion



Sanitary Plate Heat Exchangers

NT50M SYCS FRAME



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.

The NT50 SYCS frame is a solid stainless steel frame with 2" triclamp connections and 4 easy to handle tightening bolts. Six frame lengths are available for a maximum heat transfer area of 650 ft². Optional grids and high legs make this a reliable choice for all sanitary applications with flowrates up to 175 GPM.

NT50M Sanitary Frame Features

- Meets 3-A Sanitary Standards
- Max design pressure 150 psig (10.3 barg)
- Max flow rate 175 gpm (40 m³/hour)
- Solid stainless steel with 150 grit blast finish
- 2" tri-clamp connections, 316 stainless steel
- #4 finish on all 8 ports (for restream flexibility)
- Frame lengths for up to 360 plates available
- Grids available for multi-section designs
- ASME code stamp available

NT50M Sanitary Frame: Technical Data

MATERIALS AND CONSTRUCTION:

Frame Lengths: 6 standard lengths for a maximum of 360 plates

Individual Plate Weight: 1.07 kg/2.35 lb

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

Frame Plate Material: Solid 304 stainless steel

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" tri-clamp tangential for full drainability, 316 stainless steel polished to #4 finish, other materials are available

Codes: Meets 3-A sanitary standard. ASME code stamp available

Port Height: Dimensions shown are for standard frame and highleg frame option

PERFORMANCE:

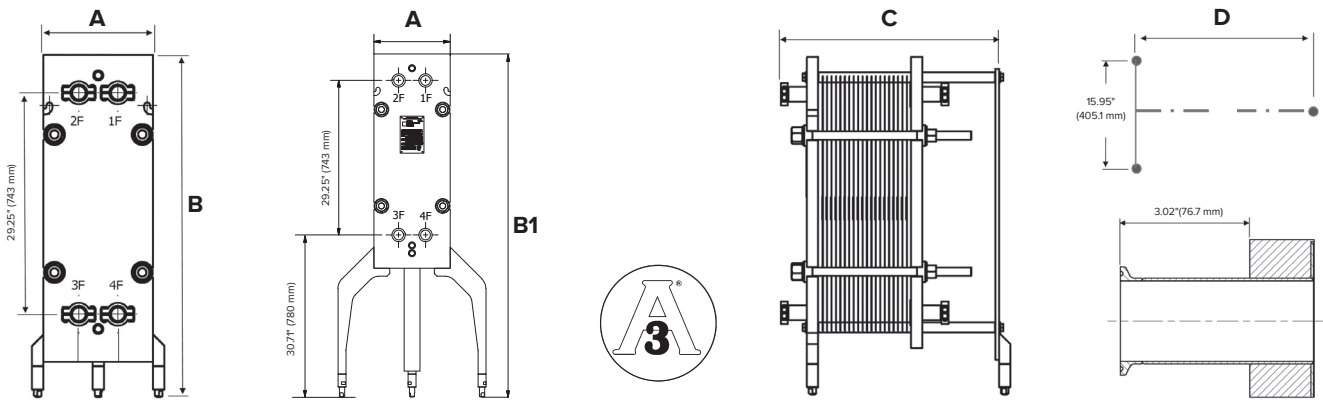
Maximum Standard Design Pressure: 150 psig (10.3 barg)

Maximum Standard Design Temperature: Dependent on gasket selection

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

Heat Transfer Plate: 0.6 mm, 316L Stainless Steel is standard, Titanium 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	Frame Dimensions Inches (mm)			Frame Footprint	
							A (Width)	Reg Frame B (Height)	Extended Frame B1 (Height)	C (Length)	D (Length)
NT50M	4	51	6.80" (173 mm)	582 lbs	2.17" (16 plates*)	40 lbs	14.45" (367 mm)	46.10" + 0.75" (1171 mm + 19 mm)	64.96" + 0.75" (1650 mm + 19 mm)	29.89"	25.37"
		115	15.24" (387 mm)	600 lbs						41.70"	37.18"
		179	23.68" (601 mm)	618 lbs						53.51"	48.99"
		243	32.11" (816 mm)	636 lbs						65.32"	60.80"
		307	40.55" (1030 mm)	661 lbs						77.13"	72.61"
371	48.99" (1244 mm)	686 lbs	88.95"	84.43"							

*Data is based on 0.6 mm flow plates

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 Kelvion:

Kelvion provides one of the most extensive product portfolios in the heat exchange market worldwide for a wide range of applications. Kelvion 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, Kelvion provides reliable and comprehensive coverage of the entire spectrum for heat exchange.

Kelvion Inc., PHE
 100 Gea Drive, York, PA 17406
 Phone: 717-268-6200
 Fax: 717-268-6162
 www.kelvion.com/us

