Heat Exchangers

Saint Clair Systems makes a variety of heat exchangers to satisfy the special requirements of Paint, Sealant and Adhesive temperature control.
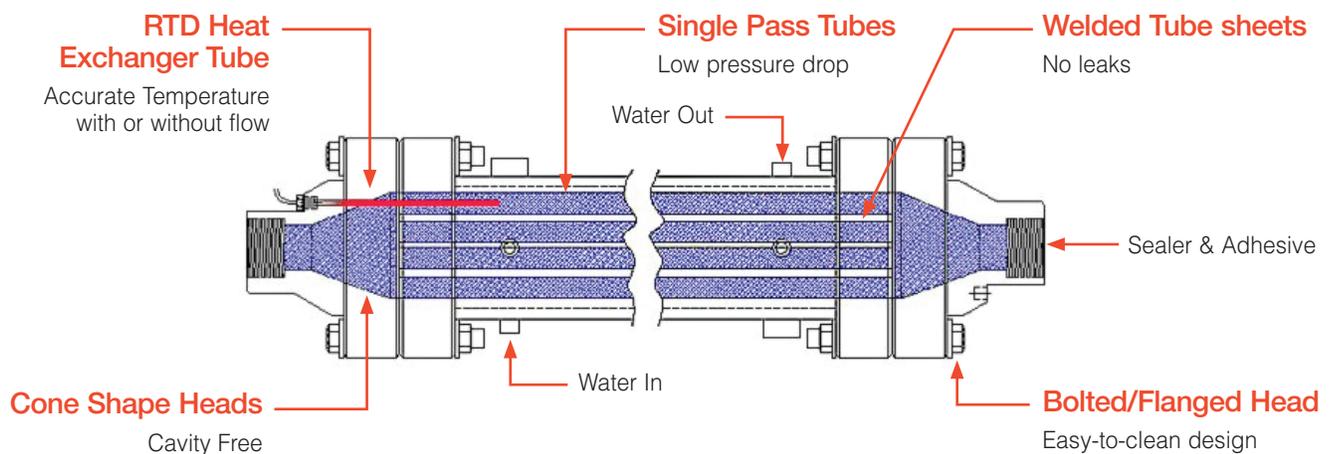
- High pressure designs
- Corrosion resistant materials
- High viscosity
- Low pressure drops
- Smooth flow
- Special connection types
- Certifications

High Pressure Heat Exchangers

High pumping pressures are needed for the application of very high viscosity materials such as sealers and adhesives. Saint Clair Systems has developed heat exchangers for this service.

The heat exchangers are computer selected for optimum thermal size, pressure drop and length.
Three basic shell diameters are available in many lengths.

RTD Heat Exchanger Tube
Accurate Temperature with or without flow

Single Pass Tubes
Low pressure drop

Welded Tube sheets
No leaks

Water Out

Sealer & Adhesive

Cone Shape Heads
Cavity Free

Water In

Bolted/Flanged Head
Easy-to-clean design

High Pressure ■ Rated to 5000 PSI working & 9000 PSI test

Certifications ■ CRN ■ CE

www.viscosity.com

saint clair systems
norcross

12427 31 Mile Road
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48095 USA

Telephone: 586.336.0700
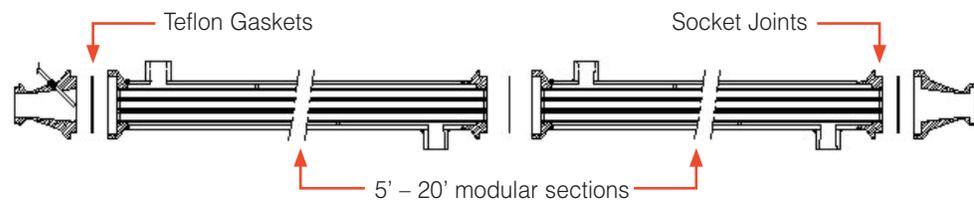Fax: 586.336.0705
Email: sales@viscosity.com

Paint Heat Exchangers

"Straight-Flo" Paint Heat Exchangers—Exclusively from Saint Clair Systems

- **Three shell diameters standard**
  Covers most paint flow and thermal system requirements.

- **Saint Clair Systems unique modular paint heat exchanger design**
  Sections join end to end using sanitary connections. Any thermal need can be achieved.

- **Linear design**
  The heat exchangers are mounted in place of the paint supply piping, saving floor space and pressure drop.

- **Paint construction**
  All Stainless Steel Construction with Teflon gaskets

- **Single pass construction with clamp type connections**
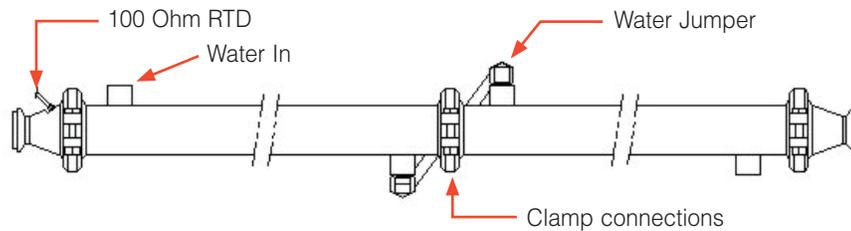 Low pressure drop and easy inspection

Cavity-free heads and tube sheets

Minimizes areas where paint can accumulate as contaminates

Teflon Gaskets   Socket Joints

5' – 20' modular sections

Multi-Tube design

Maximum heat transfer area while maintaining minimum velocity

100 Ohm RTD   Water Jumper

Water In

Clamp connections

Saint Clair Systems also supplies plate & frame and helical coiled tube heat exchangers for paint temperature service.

Specialized Heat Exchangers

Saint Clair Systems makes customized heat exchangers to fit your needs which include products like:

- **Water Jacketed tanks**
- **Tube in tube heat transfer**
- **Clamp on jackets**
- **Water traced covers**