Shell & Tube Heat Exchangers
PRE-ENGINEERED SERIES: BCF/SSCF/SX2000/B300

Southgate Process Equipment, Inc.
Standard Xchange a xylem brand
Shell & Tube Heat Exchangers

As the recognized leader in heat exchanger products, systems and technology, Standard Xchange has been providing state-of-the-art solutions to heat transfer problems for more than 90 years.

Today, the company is devoted exclusively to the design, engineering and manufacture of shell-and-tube, gasketed plate, brazed plate and air-cooled heat exchanger products. Standard Xchange heat exchangers are engineered and manufactured by experienced craftsmen who have been devoted to the science of heat transfer not just for years, but for generations. And because we offer such a wide assortment of different heat exchanger designs, we can assure you of getting the optimum heat transfer solution to your specific application, without bias toward any one particular (or proprietary) product line.

Standard Xchange
Shell & Tube
heat exchangers
are manufactured
with the highest
standards of quality.

Some of Standard Xchange’s code qualification options include:

- ISO 9001
- ASME Code
- Pressure Equipment Directive (97/23EC)
- China ML
- Korean KGS
- Brazilian NR-10
THE NEW STANDARD IN COST-EFFECTIVE SOLUTIONS.

From water to oil to process fluid and corrosive fluid applications, there’s an Standard Xchange heat exchanger that will get the job done. Our comprehensive range of shell & tube heat exchangers are dependable, rugged, and proven - with more than 90 years of research and engineering backing every design. With state-of-the-art computerized design and configuration integrated with our advanced lean manufacturing cells, hundreds of design options are available through our Quick Ship Program providing unparalleled yet cost-effective lead-times.

THE NEW STANDARD IN INNOVATION.

It’s true that Standard Xchange has been leading the way in state-of-the-art heat transfer solutions. Our advanced thermal research lab is one of the largest and best equipped facilities in the industry. Staffed with a team of highly qualified engineers, Standard Xchange’s research efforts are used to analyze complex heat transfer solutions and advanced new product development. It is also made available to industry groups, to develop standards and guidelines for product design and testing.
DETAILS

- Compact design with shell diameters 2” to 8”, standard tube lengths 8” to 72” with custom tube lengths to 144”.
- Available in 1, 2 & 4 tube side pass configurations.
- Same day, three-day, or five-day Quick Ship Program available.
- ASME Code options available.
- Flanged connection options available.

EXCHANGER TYPE:
Straight Tube
Fixed Tubesheet

ADVANTAGES:
Less costly than removable bundle exchangers.
Provides maximum heat transfer surface area per given shell and tube size.
Easily interchangeable with designs of various manufacturers.
Flanged lip baffles ensure close tolerance, high efficiency and additional tube support.
Enlarged bundle entrance area of hub/tubesheet design lowers entrance velocity and pressure loss.
Tube side can be steam or mechanically cleaned.
Only tube side fluids exposed to gaskets.
No packed joints.

LIMITATIONS:
No provision for differential expansion of tubes and shell.
Shell side may not be mechanically cleaned.

MATERIALS

<table>
<thead>
<tr>
<th>SHELL</th>
<th>Stainless Steel 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBES</td>
<td>Stainless Steel 316 with option for Copper, 90/10 or 70/30 CuNi Tube Diameter Options: 1/4”, 3/8”, and 5/8”</td>
</tr>
<tr>
<td>HUBS</td>
<td>Cast Stainless Steel 316</td>
</tr>
<tr>
<td>BONNETS</td>
<td>Cast Stainless Steel 316 with Cast Iron and Cast Bronze options</td>
</tr>
<tr>
<td>FEET &amp; BOLTING</td>
<td>Carbon Steel with Stainless option</td>
</tr>
</tbody>
</table>

SSCF/SSCF-C
STANDARD DESIGN CAPABILITIES

<table>
<thead>
<tr>
<th></th>
<th>DESIGN PRESSURE</th>
<th>DESIGN TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Side</td>
<td>150 psi</td>
<td>450 °F</td>
</tr>
<tr>
<td></td>
<td>10.5 kg/cm²</td>
<td>232 °C</td>
</tr>
<tr>
<td>Shell Side</td>
<td>225 psi</td>
<td>450 °F</td>
</tr>
<tr>
<td></td>
<td>15.8 kg/cm²</td>
<td>232 °C</td>
</tr>
</tbody>
</table>
MODELS OF EFFICIENCY.

<table>
<thead>
<tr>
<th>CENTURY SERIES*</th>
<th>BRAZEPAK*</th>
<th>PLATEFLOW*</th>
<th>AIREX® AND FANEX*</th>
<th>PRE-ENGINEERED SERIES</th>
</tr>
</thead>
</table>

Standard Xchange
a xylem brand

FOR MORE INFORMATION, PLEASE CONTACT:

Southgate Process Equipment, Inc.
87 Hickory Springs Industrial Dr.
Canton, GA 30115
Phone: (770) 345-0010
Email: Sales@southgateprocess.com
Website: www.southgateprocess.com
HEAT EXCHANGERS AND PRESSURE VESSELS

STANDARD XCHANGE (formerly ITT STANDARD)  
Commercial and engineered (TEMA) shell and tube heat exchangers. Plate and frame heat exchangers with various material combinations, gasketed, welded and double wall designs. Brazed plate heat exchangers with standard and customized designs.

MUNTERS/DES CHAMPS  
Air to air economizers, tubular and plate style for high temperature applications.

HEAT EXCHANGER DESIGN, INC  
Longitudinally finned hairpin and double pipe heat exchangers, large shell and tube heat exchangers, tank heaters and suction heaters. TEMA B, C, and R.

INDUSTRIAL HEAT TRANSFER, INC  
Finned tube heat transfer coils with continuous plate fin design. Many combinations of metals and custom designs.

ENERQUIP, LLC  
Shell and tube heat exchangers, all stainless steel sanitary designs for pharmaceutical and food applications.

ELANCO  
Spiral heat exchangers, welded plate and shell, ASME VIII.

J D COUSINS, INC.  
Large fabricated tanks and shell and tube heat exchangers for chemical, power and general industrial.

FABSCO  
Air cooled forced draft finned tube heat exchangers. ASME VIII and API 661.

CIRCLE-S PRODUCTS  
Dry-Flo moisture separators, coalescers, receivers and dry types in stock and custom sizes. Surge tanks, small tanks and ASME VIII pressure vessels.

PACKAGED SYSTEMS & COMPONENTS

SPIRAX SARCO, INC.  
Steam control and condensate recovery systems, steam traps, control valves, regulators.

ADVANTAGE ENGINEERING, INC  
Industrial chillers, air and water cooled in complete packaged systems. Standard and custom designs. Cooling Towers, Temperature Control Units, Pump/Reservoirs Systems.

KERR PUMP & SUPPLY  
Custom designed skid mounted packaged systems with controls, filters, tanks, pumps, heat exchangers, etc.

ITT NEO-DYN & ITT CONOFLOW  
Regulators, transducers, actuators, positioners, temperature switches and pressure switches.

GAUMER COMPANY  
Electric heaters, custom and stock. Immersion, circulation, duct, strip and band heaters. Packaged systems with optional controls.