



# Shell & Tube Heat Exchangers

PRE-ENGINEERED SERIES: BCF/SSCF/SX2000/B300

**S**outhgate  
Process Equipment, Inc.

Standard **X**change  
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**

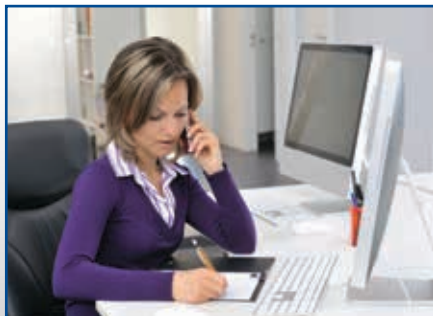
**Korean KGS**

**Brazilian NR-10**

**Standard change**



Standard Xchange is headquartered in one of the largest and best-supported heat exchanger centers in the world.



Our design staff and computerized selection process will help you choose the best heat exchanger for your application.



Advanced computerized design integrated with lean manufacturing processes provides for the industry leading Quick Ship Program.



High standards of quality are found in every aspect of manufacturing, packaging and shipping.

## 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

- SX2000U utilizes compact 3/8" OD tubes for compact selections. Pre-engineered units 4" thru 12" shell diameters.
- B300 utilizes larger 3/4" OD tubes to handle wide range of fluids. Shell diameters from 4" to 30" OD.
- Available in 2, 4 or 6 pass arrangements to optimize performance requirements.
- ASME Section VIII Div. 1 "U" Stamp as standard.

### EXCHANGER TYPE:

U-Tube

Removable Floating Bundle

### ADVANTAGES:

Allows for differential thermal expansion between shell and tubes as well as between individual tubes.

Capable of withstanding thermal shock.

All welded rugged carbon steel shell side construction provides maximum durability.

Provides maximum heat transfer surface area per given shell and tube size.

Easily interchangeable with designs of various manufacturers.

### LIMITATIONS:

Individual tube replacement not always possible.

Cannot be made single-pass on tube side, so true counter current flow not possible.

Tube side can be cleaned by chemical means only.

# SX2000U/B300



## MATERIALS

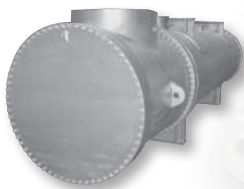
<b>SHELL</b>	Fabricated Carbon Steel with Stainless options
<b>TUBES SHEETS</b>	Fabricated Carbon Steel with Stainless, 90/10 CuNi and Brass options
<b>TUBES</b>	Copper with option for Stainless Steel, 90/10 or 70/30 CuNi
<b>BONNETS</b>	Cast Iron with Cast Stainless Steel 316 and Cast Bronze options
<b>FEET &amp; BOLTING</b>	Carbon Steel

## SX2000U/B300

### STANDARD DESIGN CAPABILITIES

	<b>DESIGN PRESSURE</b>	<b>DESIGN TEMPERATURE</b>
<b>Tube Side</b>	4" thru 8" Dia.-150 10" Dia. and up-150 psi (10.5 kg/cm <sup>2</sup> )	375 °F 190.6 °C
<b>Shell Side</b>	150 psi 10.5 kg/cm <sup>2</sup>	375 °F 190.6 °C

# MODELS OF **EFFICIENCY.**



## **CENTURY SERIES®**

Engineered/  
customized heat  
exchangers for  
process and other  
heating/cooling  
applications.



## **BRAZEPAK®**

Brazed plate  
heat exchanger.



## **PLATEFLOW®**

Gasketed plate  
& frame heat  
exchanger.



## **AIREX® AND FANEX®**

Air/oil, air/air,  
or air/water  
heat exchangers.



## **PRE-ENGINEERED SERIES**

BCF®/SSCF®/  
SX2000®/B300®  
Pre-engineered  
shell and tube  
heat exchanger.

**Standard Xchange**  
a xylem brand

**S**outhgate  
Process Equipment, Inc.

**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](mailto:Sales@southgateprocess.com)

Website: [www.southgateprocess.com](http://www.southgateprocess.com)

---

**HEAT EXCHANGERS AND PRESSURE VESSELS**

<b>STANDARD XCHANGE (formerly ITT STANDARD)</b>	Commercial and engineered (TEMA) <b>shell and tube</b> heat exchangers. <b>Plate and frame</b> heat exchangers with various material combinations, gasketed, welded and double wall designs. <b>Brazed plate</b> heat exchangers with standard and customized designs.
<b>MUNTERS/ DES CHAMPS</b>	<b>Air to air economizers</b> , tubular and plate style for high temperature applications.
<b>HEAT EXCHANGER DESIGN, INC</b>	Longitudinally finned <b>hairpin</b> and <b>double pipe</b> heat exchangers, large <b>shell and tube</b> heat exchangers, <b>tank heaters and suction heaters</b> . TEMA B, C, and R.
<b>INDUSTRIAL HEAT TRANSFER, INC</b>	Finned tube <b>heat transfer coils</b> with continuous plate fin design. Many combinations of metals and custom designs.
<b>ENERQUIP, LLC</b>	<b>Shell and tube</b> heat exchangers, all stainless steel sanitary designs for pharmaceutical and food applications.
<b>ELANCO</b>	<b>Spiral</b> heat exchangers, welded plate and shell, ASME VIII.
<b>J D COUSINS, INC.</b>	Large <b>fabricated tanks</b> and <b>shell and tube heat exchangers</b> for chemical, power and general industrial.
<b>FABSCO</b>	<b>Air cooled</b> forced draft finned tube heat exchangers. ASME VIII and API 661.
<b>CIRCLE-S PRODUCTS</b>	<b>Dry-Flo moisture separators</b> , coalescers, receivers and dry types in stock and custom sizes. <b>Surge tanks</b> , small tanks and ASME VIII <b>pressure vessels</b> .

**PACKAGED SYSTEMS & COMPONENTS**

<b>SPIRAX SARCO, INC.</b>	<b>Steam</b> control and condensate recovery systems, <b>steam traps, control valves, regulators</b> .
<b>ADVANTAGE ENGINEERING, INC</b>	<b>Industrial chillers</b> , air and water cooled in complete packaged systems. Standard and custom designs. <b>Cooling Towers, Temperature Control Units, Pump/Reservoirs Systems</b> .
<b>KERR PUMP &amp; SUPPLY</b>	<b>Custom designed</b> skid mounted <b>packaged systems</b> with controls, filters, tanks, pumps, heat exchangers, etc.
<b>ITT NEO-DYN &amp; ITT CONOFLOW</b>	<b>Regulators, transducers, actuators, positioners, temperature switches</b> and <b>pressure switches</b> .
<b>GAUMER COMPANY</b>	<b>Electric heaters</b> , custom and stock. <b>Immersion, circulation, duct, strip</b> and <b>band heaters</b> . Packaged systems with optional controls.