



## HEAT TRANSFER TECHNOLOGY



**TEi**  
a Babcock Power Inc. company

**THERMAL ENGINEERING INTERNATIONAL (USA) INC. (TEi)**, a Babcock Power Inc.® company, along with its divisions Struthers Wells, is a leading supplier of heat transfer technology to the electric power generation, petro-chemical, pulp and paper, refinery and industrial markets worldwide. Backed by more than over 100 years experience, we offer fully integrated design, engineering, manufacturing, research and development services.

Utilizing innovative technology and a team of skilled professionals, TEi has a powerful history of designing and fabricating feedwater heaters, surface condensers, moisture separator reheaters, waste heat boilers, and other superior heat transfer equipment.

### FEEDWATER HEATERS

TEi feedwater heaters are ensuring peak performance in hundreds of conventional fossil, nuclear, solar and cogeneration facilities around the world. Whether operating at base load, part load or transient conditions, TEi's significant experience contributes to consistent feedwater heater reliability. We provide high pressure, low pressure, and vertical feedwater heaters, designed to meet the requirements of your facility.

### CONDENSERS

TEi condensers represent a continuous evolution of advanced technology, offering unmatched thermal efficiency and superior mechanical design. Our designs incorporate enhanced deaeration systems, and can accommodate a variety of steam turbine exhaust options to optimize your plant layouts. TEi has emerged as the preferred supplier for condenser tube module retrofits of OEM and non-OEM condensers. We prepare a module design that meets or exceeds the performance characteristics of the original design, while fitting conveniently into the existing condenser envelope.

### INDUSTRIAL HEAT EXCHANGERS

TEi's Industrial Products Division has worked with general industry, electric utilities, consulting engineers, and end users since 1911, providing heat exchangers that meet the most demanding operating service conditions. Heat exchangers are designed to ASME Section VIII Div. 1 or other international codes and incorporate TEMA Class C, R or B.

Depending on your needs, API, ABS and HEI specifications can also be accommodated. To ensure the integrity of our products, every heat exchanger is pressure tested before it leaves our facilities and we have an independent Authorized Inspector on site.

### MSR TECHNOLOGY & ADVANCED PROGRAMS

TEi is the global leader in Moisture Separator Reheater (MSR) Technology. We offer a complete suite of products and services for MSRs including the modification and upgrading of existing MSR systems and complete MSR vessels for new and life-extended plants. Our MSR customer list includes electric utilities from around the world. Over 400 MSR replacement bundles and moisture separation systems have been installed in the USA, Canada, China, Korea, Taiwan, Japan, Brazil, Mexico, Belgium, Spain, Slovenia, Romania, and Slovakia.

### STRUTHERS WELLS

Struthers Wells began in 1851 as a manufacturer of pressure vessels, boilers, and steam-powered machinery and has continued to set the standard for high temperature heating systems. No other company can match the depth of experience in all aspects of heat recovery technology. Struthers Wells is a pioneer in developing solar steam generating systems, central receivers, and molten salt heat exchangers. We have designed and manufactured high temperature heat transfer systems for every heat transfer fluid available, including Dowtherm®, Therminol®, Syltherm®, molten salts, and liquid metals.



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### SERVING OUR CUSTOMERS

TEi provides feedwater heaters for conventional fossil generation, solar, biomass, nuclear, IPP/NUG/Co-Gen technology and programs utilizing advanced cycle configurations. TEi facilities are dedicated exclusively to the manufacture of heat transfer equipment for power plant and process industries. Our organization's advanced programs ensure compliance with the highest quality requirements at our U.S. facilities and licensed overseas operations.

### CERTIFIED SHOP PER THE FOLLOWING:

9001 : 2008

ASME Section I & Section VIII

Chinese Manufacturing License, PED, CRN

National Board U, S, R

Military Standards

IOCFR—Nuclear Non-Safety Related

### AWARD RECIPIENT

SHARP (Safety & Health Achievement Recognition Program 2009–14)

FM Global Manufacturing Award of Excellence 2009

TECO Westinghouse Blue Diamond Award 2009

Deviation Management System tools to identify, record, analyze non-conformances and improve quality control system.

### LOS ANGELES HEADQUARTERS

Design teams provide integrated product engineering, resulting in single-point responsibility for design and manufacturing.

### JOPLIN, MISSOURI MANUFACTURING FACILITY

Equipped with sophisticated tooling necessary for the precise drilling of tubesheets and support plates. Large floor and lay-down areas eliminate assembly bottle necks and promote efficient material flow.



### FULL RANGE OF HEAT TRANSFER COMPONENT SERVICES

- Feedwater heaters
- Surface condensers
- Moisture separator reheaters (MSRs)
- Heat exchangers
- Engineering & field services

SAFETY<sup>3</sup> PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

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