

Hoffman Process and SBS air-cooled heat exchangers

Hoffman Process, Inc. and SBS Corporation announce the formation of a partnership to provide thermally designed air cooled heat exchangers for the process industry. The advantage of the partnership includes:

- Custom designs using standardized components
- Low cost
- Quick delivery

These air cooled heat exchangers will be designed and manufactured to the ASME Code with materials of carbon steel through Hastelloy plus optional protective coatings.



DESIGNED WITH YOUR NEEDS IN MIND

An **SBS QUENCH AIR®** is a heat exchanger which uses air instead of water to cool liquids that have been heated in industrial processes. A Quench Air Cooler completely eliminates the use of cooling water, so it helps reduce your costs while benefiting the environment.

The SBS Quench Air functions much like a car radiator. The liquids from heated processes flow through the heat exchanger's finned tubes. The Quench Air's electric, motor-driven propeller fans blow cooling air over the tubes, and the heat from the liquid is exchanged into the air.

Our products are constantly evolving to meet our customers' changing process requirements. *We design our Quench Airs with our customers' needs in mind...*



Two choices of construction: Removable Bonnet or Box Headers



REMOVABLE BONNET DESIGN

In applications under 150 PSI and 450°F, bonnets (removable cover-plates) on both ends give complete visual and mechanical access to tube interiors. The absence of tube "U-bends" makes cleaning easy.



BOX HEADER DESIGN

In applications over 150 PSI or 450°F, box headers with plugs opposite-the-tubes are available. Each tube end has a removable plug opposite it for tube access.

FIN GUARD

Mounted on top of the heat exchanger, the fin guard protects the delicate finned tubes from weather or people damage. The fin guards are bright zinc plated and sealed with di-chromate.



QUIET, EFFICIENT PROPELLER FANS

Using minimal horsepower, propeller fans deliver the optimal quantity of air with quiet operation. The direct drive fans eliminate sheave and belt maintenance.



MANY MATERIALS AVAILABLE

Any weldable alloy can be used. To the left is pictured a condenser with all materials of construction 316 stainless steel.



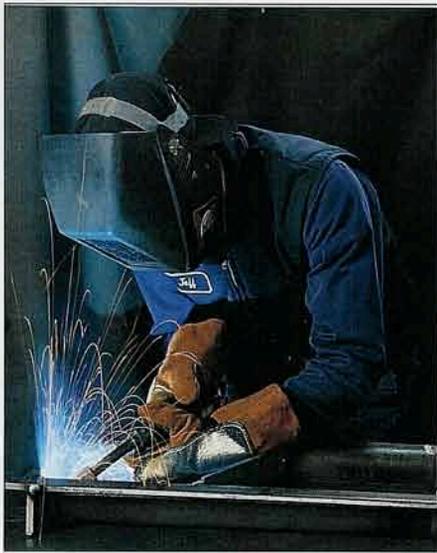
FINNED TUBING

1" diameter tubes (carbon steel, stainless steel, or alloy) create four times the flow area of a commonly used 1/2" tube. The large flow area virtually eliminates the possibility of plugging. Depending on the application, steel, aluminum, or alloy fins are available in L-foot, embedded, or brazed fin-tube construction.

OPTIONAL COATINGS AVAILABLE

Corrosion coatings are also available. Pictured to the left is a heat exchanger coated with Heresite epoxy coating for salt water protection.

THE SBS EDGE



major components on site. With the parts already on its shelves, SBS can meet most schedule requirements—regardless of how hot they are. If it is an absolute necessity, it is not unusual for SBS to ship a new heat exchanger within a week of an order.

Equipment Engineered for Performance, Constructed for Durability

SBS believes in solid design and construction. We are committed to building durable heat exchangers which will last long into the future. Combining galvanized, heavy gauge steel, heavy duty fasteners, and top quality welds, our units are ready to stand up to years of rigorous duty under the most severe conditions.

Exceeding ASME Standards

SBS Corporation builds air-cooled heat exchangers in accordance with the requirements of the ASME Boiler and Pressure Vessel Code. If requested, SBS heat exchangers will be manufactured to meet and exceed the American Society of Mechanical Engineers' international standards for design, construction, and inspection, and they'll be stamped accordingly. Also significant, all SBS welders are

certified to meet ASME Section IX Welding Standards.

Computer Aided Engineering in Design & Manufacturing

HPI/SBS specialists are familiar with numerous commercial and industrial processes as well as available heat transfer liquids. To complement their expertise, HPI/SBS engineers utilize computers to look at each application in various ways. As a result, they can efficiently select the optimum design for each application.

Dedication to the Customer

SBS Corporation has a very simple philosophy: listen to customer needs, design equipment that meets and exceeds those needs, and supply the best products and services possible. Our Quench Air heat exchangers are the embodiment of that philosophy.

HPI/SBS offer thermal design with performance guarantee for the chemical, petrochemical, and refining industries. Mechanical designs are available to meet ASME Section VIII, Div. 1 and optionally to meet API 661, where applicable.

MADE IN THE U.S.A.

Full System Responsibility

SBS produces the heat exchangers, pumps, control panels, and electronics necessary for a complete system. The interconnecting wires and the piping are the only parts of the system that have to be found elsewhere. As a result, SBS customers receive two noticeable benefits: a great deal of time saved and one knowledgeable source if questions arise about the system.

In Stock Inventory

SBS stocks all of its heat exchangers'

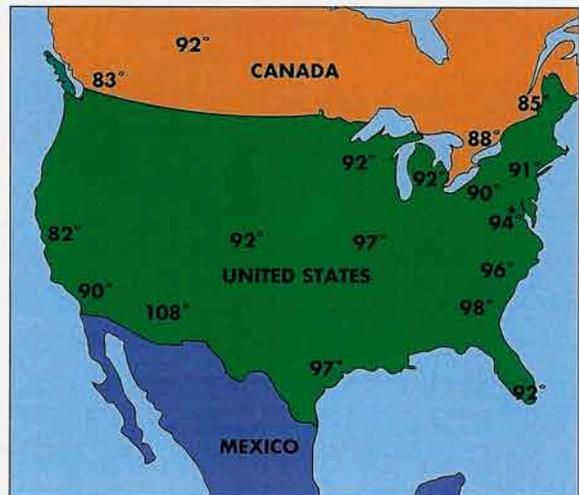
AN AIR-COOLED HEAT EXCHANGER

A Practical Solution for Process Control

An air-cooled heat exchanger can be applied on any operation where a process needs to be maintained at 10°F (or higher) above the anticipated summer high ambient temperature. An air-cooled heat exchanger has a number of advantages. Its most noticeable benefit is: air is free! In addition, air is extremely accessible, and it takes very little horsepower to move it. During the winter months, the heated air can be reused to augment heating systems. And most importantly, when companies use air as a coolant, they help preserve water, a limited resource.

The 1% Design Temperature For Major Metropolitan Areas

The map illustrates anticipated summer high temperatures for various regions throughout the United States and Canada. Any system which can tolerate liquid temperatures 10° higher than the listed summertime ambients is a good candidate for an air-cooled system.



Industry will face ever increasing, stringent guidelines addressing water use in industrial applications in the 21st century. Water and

sewage costs will dictate that the most logical path to compliance will be through the elimination of water use whenever possible. Most cooling requirements, when carefully scrutinized, are likely candidates for “zero-discharge” air-cooled heat exchangers. An atmosphere generator, fan bearings, a quench tank — whatever the application, we must start turning off the flow of industrial water use today to insure the existence of a pure and healthy aquifer for our children and grandchildren.



OTHER FINE PRODUCTS

- Transition/Duct heat exchangers
- Shell & Tube heat exchangers
- Economizers
- Direct fired superheaters
- Waste heat boilers
- End-O-Therm® Gas Coolers
- Trash Can® Liquid Filtration Systems
- Cyclone® Circulating Pumps
- Centrifugal Separators
- Electric Circulation Heaters
- Temp Controller Control Panels
- Tower Scour® Water Cleaners
- Sludgebuster® Oil Cleaners

HOFFMAN PROCESS, INC.

1-412-206-0065

PHONE

1-412-220-4624

FACSIMILE

hpiheatex@hoffmanprocess.com

E-MAIL

www.hpiheatexchange.com

WEB

1370 Washington Pike • Bridgeville, PA 15017 • USA