



THERMAL PRODUCTS INC.

Engineered Solutions to Industrial Applications

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HEAT EXCHANGERS

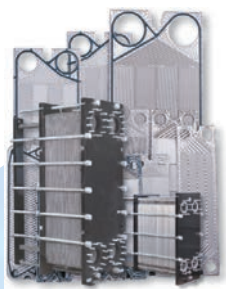
API BASCO / WHITLOCK

API Basco / Whitlock are the largest names in heat transfer today with standard shell and tube designs ranging in size from 3" to 120" in diameter and lengths up to 30 feet. These designs are available in a wide variety of materials including carbon steel, copper, copper/nickel, stainless steel, titanium and some of the more exotic materials. Pressure and temperature combinations are available in our standard designs up to 3500 psig and 1000°F. ASME, TEMA, API, ABS, PED, Chinese, DOSH, TUV, AD MERK BLATT and other code constructions are available.



API SCHMIDT-BRETEN

Schmidt-Bretten plate heat exchangers provide optimum heat transfer performance with lower surface area and process temperatures to within one degree of cold side, offering higher heat transfer areas. Unique features of the Schmidt-Bretten plate include lower liquid volume, minimal fouling, expandability and ease of maintenance. Plates are available in stainless steel, titanium and other higher alloys. Brazed and welded plate designs are also available in a wide range of design pressure and temperature ratings.



ENERQUIP

Enerquip specializes in heat exchangers for the food, dairy and pharmaceutical industries. Enerquip is an ASME Code Shop and can manufacture to the following standards if required; Dairy 3A Practice 605-04, Dairy 3A Standard 12-05, and ASME BioProcessing Equipment (BPE). These heat exchangers are available in a wide range of materials including stainless steel, inconel, monel, titanium and hastelloy.



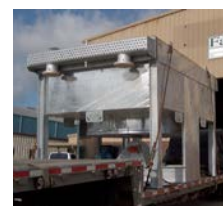
THERMAL TRANSFER PRODUCTS

Thermal Transfer Products, for over 40 years has offered a broad range of standard "off the shelf" shell and tube and air cooled exchangers for Oil/Water/Air applications. Markets include Mobile, Industrial and Process Industries. With options in Stainless Steel, Brass, Copper, Admiralty, 90/10 and Aluminum, Thermal Transfer has the right material fit for your application.



FABSCO AIR-COOLED EXCHANGERS

FABSCO manufactures heavy duty air-cooled heat exchangers for industrial applications including the power generation and compressor markets. FABSCO uses the wrap-on fin design as standard but can produce the L-tension and embedded fin as an option. Header boxes are standard SA-516 Gr. 70 plate material but can also be supplied in stainless steel or other high alloy material if required.



HEXONIC

Brazed Plate Exchangers represent the most compact, rugged, and cost-effective means of transferring heat in many industrial, process, and refrigerant applications. Available in the standard single wall arrangement or to eliminate cross contamination potential, we can offer a Double Vented Wall arrangement. Built from 316 stainless steel heat transfer plates and available with copper or stainless steel brazing materials. Brazed plate exchangers provide exceptional corrosion resistance. Due to the smaller size and reduced material content, the Single Wall Brazed Plate Exchanger and the "Safe Plate" Double Wall Brazed Plate Exchanger can be the most economical heat transfer choice.



IEA RADIATORS

IEA has 75 years of combined experience in technology and service. They have a line of standard and custom designed industrial radiators. IEA's sales and engineering staff are equipped to handle special requirements. IEA has engine driven and remote driven models up to 85 square feet and designs for engines from 100 KW to 2000 KW in various stationary & mobile applications. IEA also has a complete line of oil/fuel coolers & optional equipment.



REPLACEMENT HEAT EXCHANGER & TUBE BUNDLES

Thermal Products can offer direct replacement heat exchangers and tube bundles for many manufacturers or to your engineered drawing. Simply supply the manufacturer's complete model number or drawing and Thermal Products will provide our customers with new heat exchangers or tube bundles that are of the same (or greater) quality than the original. We do this all while matching the dimensions and performance of your existing unit.

Thermal Products can cross reference your heat exchanger or tube bundle from the following Manufacturers and more...

- Adamson
- Armstrong
- Graham
- Patterson-Kelley
- Thrush
- American Standard
- Bell & Gossett
- ITT Standard
- Reco
- Yula
- A.O. Smith
- Cemline
- Old Dominion
- Taco
- Basco
- Ketema
- Allegheny Bradford
- Enerquip
- Xylem
- Thermal Transfer
- American Industrial



We can build your new Heat Exchanger or Tube Bundle with Copper, Copper-nickel, Carbon Steel and Stainless steel tubes. If you need higher alloys, we can provide that also.

RUSH/EMERGENCY SHIPMENTS are available when delivery is critical. Standard "Quick Ship" delivery and "Emergency" ship times are available.

Heat Exchangers and Tube Bundle capabilities include, but are not limited to:

- 3" nominal to 60" nominal
- U-Tube or Straight Tube (Fixed Tubesheet or Floating Tubesheet)
- Tank Heater Tube Bundles
- Fuel Oil Heater Tube Bundles
- Double Wall Vented Tube Bundles
- Heads & Bonnets
- A.S.M.E. Stamping Available



Not Sure How to **MEASURE A TUBE BUNDLE?**

Check out our printable tube bundle dimension sheets on our website!

Thermal Products engineering and sales staff will assist you with designing and sizing your new heat exchanger or tube bundle. We can fabricate to your specifications, cross-reference your current make & model or take on-site measurements.

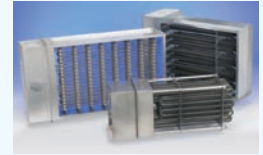
Contact us today so we can diagnose your tube bundle free of charge.

ELECTRIC HEATERS

INDEECO ELECTRIC HEATERS



Indeeco designs and manufactures electric heating equipment and electronic controls for industrial and commercial applications. Indeeco's comprehensive product line contains both standard and custom designs for heating air, gases and liquids. From duct heaters to immersion heaters to fully integrated heat transfer systems, Indeeco has the right electric heating solution for you.



INDEECO UNIT HEATERS



Indeeco offers electric unit heaters with optional controllers that set the standard for performance and quality. With our partners, Thermal Products offers a complete line of explosion-proof and fan-forced electric unit heaters. The product line includes Ultra-Safe™ EXP and Compact explosion-proof unit Heaters; an explosion-proof convector; the Triad washdown & corrosion resistant unit heater; and several types of standard unit heaters. We know down-time is costly, that's why we offer a Quick-ship delivery program to fit your schedule.



INDEECO HEAT TRACE



Indeeco offers a complete line of Heat Trace products for the most demanding freeze protection, temperature maintenance, snow melting, de-icing and specialty applications in Industrial and Process Markets. These products are designed and manufactured to the strictest industry standards and are third-party approved for use in hazardous Industrial areas.



BRISKHEAT



BriskHeat manufactures flexible surface heating elements and controls / accessories for unlimited applications. Petrochemical, semiconductor, food processing, biotech, aviation, steel, laboratory, power generation and many other industries have found their solution with their heating products. A broad range of experience in solving your applications for viscosity control, condensation prevention, process heat, and freeze protection has allowed BriskHeat to become the world-wide leader in flexible surface heat and heat trace applications for piping, vessels, pumps, valves and other objects.



BACKER MARATHON HEATERS



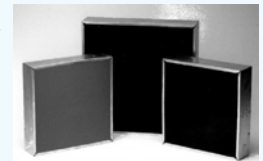
Backer Marathon Heaters is a manufacturer of high quality electric heating elements and sensors. Backer Marathon manufactures various types of heaters including cartridge heaters, strip heaters, band heaters, air heaters, flexible tubular heaters and coil heaters. Backer Marathon also manufactures mineral insulated and general purpose Thermocouples for all industries. Whether you need just one piece or thousands, we can assist you with that need and get the right heater or sensor to you in the needed time frame.



SOLAR HEATERS



Solar Products, Inc. is America's leading supplier of premium electric infrared heaters. Backed by over 60 years of innovation in manufacturing infrared heating solutions, all of the Solar product line are guaranteed to deliver efficient heating performance with unbeatable reliability. Solar is the largest manufacturer of custom infrared electric heaters for the OEM market. With over 60 years of innovation behind us, we deliver the most well-built and effective infrared heating solutions available on the market.



BBC - THERMAZONE

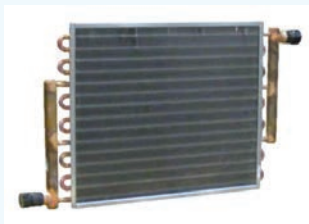


The BBC Thermazone Infrared Heater is low-cost power and a simple, inexpensive installation the easiest and most economical solution to heating. Thermazone® Infrared Heaters are always on the job. With no moving parts to break down or bulbs or reflectors to clean and replace, the BBC Thermazone Infrared Heater is an exceptional directional heat source. And because there are no combustion products discharged, no flames, or noxious gases produced, the UL approved Thermazone® Infrared Heaters provide safe, clean heat.

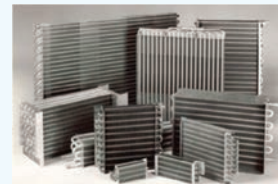


COILS

CANCOIL OEM COILS



Cancoil is one of North America's fastest growing manufacturers of OEM finned tube coils. Cancoil products are used in a wide range of applications including food processing, refrigerated warehouses, supermarkets, convenience stores, schools, hospitals, restaurants, health clubs, computer rooms and telephone exchanges. From water and refrigeration coils to dry coolers give us a call with your needs.



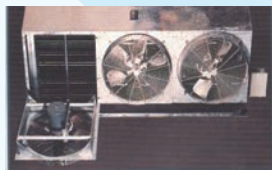
DELTA T THERMAL SOLUTIONS



High Quality Heat Exchangers utilizing the proven technology of laser welding with a wide variety of heated and refrigerated plates, including immersion plates, plate bank assemblies, clamp-on plates and jacketed shells. All heat exchange transfer surfaces and assemblies can be designed, fabricated, and stamped to meet ASME Code Section VIII, Div. 1. Delta T can also duplicate any Tranter heat transfer Plate part number.



REPLACEMENT COILS



The Plate Fin product line of standard coils have applications in Pulp & Paper, Power Generation, HVAC, Cold Storage, Food Processing and other general process industries. Coils can be constructed in a variety of materials such as copper, aluminum, copper-nickel, carbon steel, stainless steel and hastelloy.



PUMPS AND PUMP SKIDS

PUMPS AND ASSEMBLIES



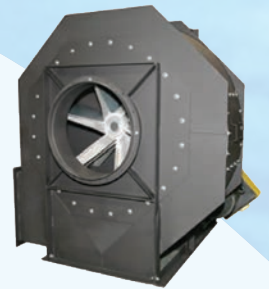
Whether you're searching for a Water or Glycol Inline Pump, an Air Operated Diaphragm Pump or pumps for an industrial or process installation at Thermal Products, we want to make sure we meet all of your pump application requirements. By working closely with our customers through the pump selection process, they are guaranteed to receive high quality, efficient and economical fluid handling solutions that will yield the best results. All pumps can be packaged on a skid with a heat exchanger, filtration and interconnecting piping and valves when your application calls for this requirement.



AIR MOVEMENT

HOWDEN AMERICAN FAN COMPANY

Howden American Fan offers one of the most complete product lines of fans in the Industry, and is able to develop customized air/gas/material movement solutions for a variety of industries. Our individualized engineering and excellent service lead the industry. The quality and value behind our fans and blowers make us the first choice in many markets. From standard "off the shelf" fans to fully engineered fans, we have the right solution for you.



COOLING TOWERS

ADVANTAGE POWER TOWER



Advantage Power Tower is made of fiberglass construction and are built especially for the Heating, Ventilation, Air-Conditioning and Refrigeration markets. Lightweight and compact, the Advantage Power Tower provides quick and easy installation. Jobsite assembly is simplified by the modular design of all components. Advantage Power Towers range in size from 45-540 tons.



DELTA COOLING TOWER



Delta Cooling Towers, Inc. designed the first engineered plastic (polyethylene) cooling tower in 1971. Since then, Delta Cooling has improved and expanded "The Most Durable Corrosion-Proof Cooling Towers Available" to a full line of factory assembled cooling towers for any application. Cooling Towers for critical service applications that cannot afford maintenance costs and downtime of galvanized sheet metal towers. Delta's cooling towers come with an industry leading 20 Year Warranty on the unitarily molded cooling tower casing.



EQUIPMENT SENSORS & SAFETY CONTROLS

AMOT CONTROLS



Amot specializes in mechanical, hydraulic, pneumatic, electric and electronic control components for the oil & gas, power generation, transportation and marine industries. This includes, but is not limited to, thermostatic valves, heavy duty switches and safety controls.



NOISE CONTROL PRODUCTS

ArtUSA INDUSTRIES



ArtUSA constructs enclosures and building systems for any environmental control situation. This includes, but is not limited to, Sound Enclosures, Personnel Enclosures, Barrier Walls, Thermal Enclosures, Audiometric Testing Rooms, Punch Press Enclosures, Test Cells, Generator and Compressor Enclosures.



GT EXHAUST

GT Exhaust, for over 30 years, has been a world-class supplier of solutions for sound attenuation and emissions suppression. GT Exhaust specializes in producing both standard and custom exhaust silencers, working to meet any space or regulatory specifications required. We pride ourselves on being able to meet your needs and surpass your expectations through their extensive knowledge and experience. Whether your application requires a pre-engineered exhaust silencer or one of GT's ETO (Engineered To Order) products or one of their accessories, from exhaust tubing to expansion joints to thimbles and rain caps, with their proven reliability we assure you satisfaction.



SILEX SILENCERS

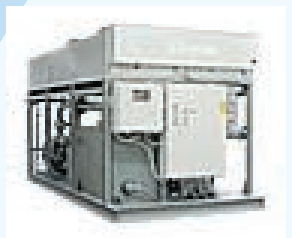
Silex Blower silencers are required in many applications such as industrial processing and wastewater treatment. Silencers applied to blower applications will take on different configurations based on the specific noise that needs to be attenuated. Silex Blower silencers are regularly applied to both the intake and discharge sides of a blower. With thousands of blower silencers sold to date, Silex Blower silencers is an industry expert in meeting blower silencing needs.



PROCESS HEATING/COOLING SECTION

ADVANTAGE ENGINEERING INC.

Advantage Engineering supplies well engineered and manufactured temperature control units and heat transfer equipment, including cooling tower cells, water chillers, water cooling systems, air cooled chillers, liquid chillers, chiller systems, portable chillers, pump tanks and process chillers.



ASTEC DIRECT FIRE HEATERS

Astec manufactures gas fired Thermal Fluid heaters and with pump, tanks, valves and controls packages for the tightest of applications. With gas, fuel oil or electricity as the heat source, Heatec has the right product for your application. Heatec builds fired thermal fluid heaters and process heaters in outputs from 0.5 to 125 million Btu/hour. These thermal fluid heat transfer systems serve various industries.



MIXERS / MATERIAL STORAGE

POLY AND METALLIC TANKS



Thermal Products supplies off-the-shelf custom designed corrosion-resistant products made from Fiberglass Reinforced Plastic (FRP). We specialize in Hand Lay-up fiberglass design, engineering and manufacturing, with decades of experience in fiberglass tanks, piping, dual-laminates, duct, stacks, scrubbers and a variety of custom made product for the OEM markets.



BRAWN MIXER



Brawn Mixer liquid systems are engineered to specific processing requirements of each mixing application. High-performance materials of construction and build specifications ensure reliability; proper design and engineering increase operating efficiencies; and extensive process expertise improves output quality. Brawn mixers are engineered to meet the most demanding application requirements and processing environments, from lab-scale mixers to large-scale integrated mixing systems, with solutions that are effective, reliable, and cost-competitive.



FILTRATION / SEPARATION / MIXING EQUIPMENT

WM. W. NUGENT & CO., INC.



Nugent ASME Code Filters and Strainers are designed to meet specifications dictated by OEM's, oil companies, and engineering firms. Some standard features include cover swing bolts for easy maintenance, cover O-rings for a leak-free cover seal and heavy duty carbon steel bodies. Non-code simplex and duplex filters are also available.



FAA FILTERS

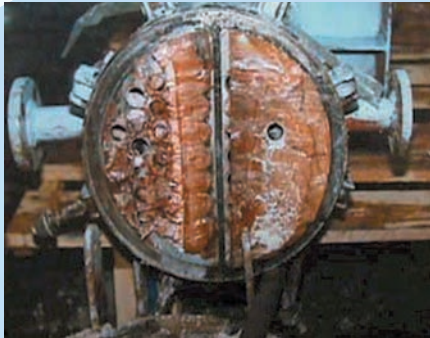


FAA Filters designs, develops and manufactures filtration products used in the hydraulic and industrial markets. Every quality filtration cartridge and spin-on product meets or exceeds the specifications of a broad range of Original Equipment Manufacturers (OEM's) including: Pall, Donaldson, Schroeder, Parker, PTI, Fleetguard and Hydac/Hycon.



THERMAL PRODUCTS INC.

Heat Exchanger Cleaning, Retubing & Repairing Services



BEFORE



AFTER



- **Heat Exchanger Cleaning**
- **Re-tubing and repair of shell and tube heat exchanger from any material (copper, brass, stainless steel, copper nickel, titanium)**
- **Hydrostatic testing**
- **Emergency turn-around available**
- **COMPLETE ON SITE SERVICE IS AVAILABLE FOR CLEANING AND TESTING OF ANY TYPE OF HEAT EXCHANGER**

VISIT OUR WEBSITE AT www.thermalproducts.com

NOTES





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