



Thermal Products Inc.

Engineered Solutions to Industrial Applications

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With our extensive background in heat transfer and industrial applications, we are confident that we can find a solution to all of your industrial needs. Please contact your local office for an immediate response.

VISIT OUR WEBSITE AT www.thermalproducts.com

HEAT TRANSFER EQUIPMENT

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, Chinese, DOSH, TUV, AD MERK BLATT and other code constructions are available.



API SCHMIDT-BRETTE



Schmidt-Bretten plate heat exchangers provide optimum heat transfer performance with lower surface area and lower capital cost. The unique design of the Schmidt-Bretten plate results in a very high heat transfer area. With high heat transfer coefficients and pure counter current flow, Schmidt-Bretten plate heat exchangers can cool hot fluids to within one degree of the cold fluid, making heat recovery in excess of 96% technically and economically possible. Unique features of the Schmidt-Bretten plate include lower liquid volume, minimal fouling, superior sealing, expandability and ease of maintenance. The plates are available in 300 series stainless steel, titanium and other high alloys. Brazed and welded plate designs are also available in a wide range of design pressure and temperature ratings, including the new all titanium brazed plate heat exchanger.



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.



SMITHCO/AMERCOOL



Smithco/Amercool manufacture heavy duty air-cooled heat exchangers for industrial applications including the power generation and compressor markets. The Smithco/Amercool design has been proven with unique features such as heavy duty bearings, bolted construction, and shoulder plugs with metal gasket opposite each tube end. The Smithco/Amercool design 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.



THERM-X



Therm-X manufacture packaged aluminum (bar & plate) and tube & fin exchangers for liquid or gas service to meet low pressure drop applications. The TX-A Series heat exchanger is an air-cooled unit that uses fan-drafted ambient air to cool or heat a process gas flow. The TX-L Series is used to cool liquids with fan-drafted ambient air. The TX-LG Series heat exchanger is used to either heat or cool process gas to within 10° F of the service fluid if desired.



AIR TECHNOLOGIES



Air Technologies is the leader in the design of air-cooled aluminum heat exchangers for a wide variety of industries. Both air-to-air and air-to liquid applications are available. All of the aluminum exchangers feature vacuum brazed, bar and plate construction for rugged reliability in a lightweight design.



HEAT TRANSFER EQUIPMENT



IEA, INC.

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 is 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.



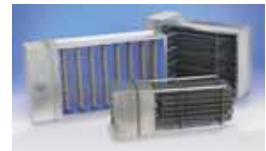
PLATE FIN STEAM, WATER & REFRIGERATION COILS

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.



INDEECO

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.



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.



PROSONIX

ProSonix provides Direct Steam Injection heating solutions for industrial and commercial applications. From simple tank heating and water-heating tasks to challenges such as slurry heating, sludge heating, and aggressive fluids. With a unique variable-area steam nozzle, ProSonix Heaters internally modulate steam flow where steam and liquid first mix, maintaining constant steam pressure and velocity for smoother operation, all without an external steam control valve. Highly turbulent injection ensures instantaneous mixing and heating. Even with variable liquid flows and inlet temperatures, ProSonix Heaters provide temperature control to $\pm 1^\circ \text{F}$.



BRUNE ENGINEERED PRODUCTS

Brune Engineered Products is a leading manufacturer of high quality heat exchangers utilizing the proven technology of laser welding. Brune Engineered Products produce 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.



FILTRATION & SEPARATION 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.



AES ENGINEERED SYSTEMS

AES consists primarily of in-line and multiple barrel pressure filters. A complete range of design options can be used to meet the demands of a specific process. High efficiency, operating control and ease of operation are key aspects to the filter line. Automatic backwash by time clock and/or pressure differential switch is also available.



QUALITY FILTRATION

Quality Filtration designs, develops and manufactures filtration products used in the hydraulic and industrial market. 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.



CLARK-RELIANCE / SEPARATORS

A complete line of Oil & Gas Separators that use the best devised methods to produce gas-free liquid and liquid-free gas. Our Dry Gas Filters and Filter Separators are designed for the high efficiency removal of unwanted contaminants (liquids and solids) from a gas stream. Our complete line includes In-Line Vane Separators, Vertical Gas Separators, Filter Separators, Coalescer Filters, Centrifugal Separators, Multi-Cyclone Separators, and Exhaust Heads for Industrial Stacks

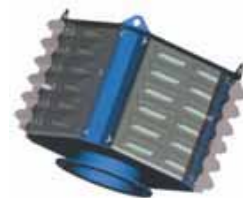


NOISE CONTROL DEVICES



UNIVERSAL SILENCER

Universal Silencer specialize in industrial air filtration and noise control products for a wide variety of power, process and pneumatic applications such as rotary positive blowers, vacuum pumps, high pressure vents and blowdowns, rotary screw compressors, gas turbine and reciprocating engines and much more.



ArtUSA INDUSTRIES

IES 2000 construct enclosures and building systems for any environmental control situation. This includes, but not limited to, Sound Enclosures, Personnel Enclosures, Barrier Walls, Thermal Enclosures, Audiometric Testing Rooms, Punch Press Enclosures, Test Cells, Generator Enclosures and Compressor Enclosures.



COOLING TOWER

NIAGARA BLOWER



Since 1904 Niagara Blower has been known for the design and manufacturing of high quality wet surface air coolers for process and power industries. The unique design of the Niagara unit allows an approach of 10° F to the wet bulb temperature instead of the dry bulb temperature. This allows the customer to cool the fluid to a much lower temperature than other types of cooling towers, while considerably minimizing or reducing make-up water.



AMCOT



Amcot Cooling Towers are made of fiberglass construction and are built especially for Heating, Ventilation Air-Conditioning and Refrigeration market. Lightweight and compact, the Amcot cooling tower provides quick and easy installation. Jobsite assembly is simplified by the modular design of all components. Amcot maintains an average of 100-125 units in stock ranging from 3-500 tons.



EQUIPMENT SENSORS & SAFETY CONTROLS

AMOT CONTROLS



Amot specialize 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.



FLOW SAFE SUPPLY, INC.



Flow Safe Supply is a manufacturer of Enhanced Performance pressure relief valves, both spring and pilot operated. Standard and custom models are available including pressure relief valves with the ASME VIII UV stamp and European CE mark.



BOILER SYSTEMS

PARKER BOILER CO.



Parker Boiler Company is a world-renowned manufacturer of steam boilers from 1.5 H.P. to 150 H.P. with pressures to 250 PSI capable of delivering dry steam in under 10 minutes. Parker manufactures direct-fired hot water boilers (available as gas, oil, propane or combination-fired) ranging from 300,000 to 6,800,000 BTU, with operating temperatures to 400° F degrees and pressures to 300 PSI. Parker also manufactures indirect-fired water heaters (available as gas or propane-fired) ranging from 300,000 to 3,000,000 BTU input, with operating temperatures to 190° F and pressures to 150 PSI.



PACKAGED SYSTEMS



HEATEC

Heatec specializes in heating and storage equipment. Heatec's products are widely used in the production of HMA (hot mix asphalt). Products for the HMA industry include helical coil heaters, direct-fired heaters, vertical and horizontal storage tanks. Heatec industrial products include heaters, vaporizers and heat recovery units. The heaters are either horizontal or vertical and have either helical coils or serpentine coils.



HEATING & COOLING PACKAGE SYSTEMS



Supplying packaged, closed-loop cooling systems as well as process fluid heat transfer systems. Our systems can supply accurate temperature control to the production of just about any type of material including plastics, chemicals, petroleum, paper, power, steel, food, etc. We can supply standard or custom systems that include chillers down to -100°F and hot oil systems up to 750°F . Whether using evaporative, dry air, shell and tube or plate and frame heat exchangers we can fulfill virtually any customer's industrial cooling and heating needs with an appropriate system.



COMPLETE PACKAGE SYSTEMS

Custom skid-mounted systems each engineered to the customer's exact requirements. With a broad range of Engineering, Fabrication and Packaging capabilities we can provide equipment which includes: Fuel Gas Conditioning, Fuel Gas Forwarding, Circulation Heaters, Hot Oil/Heat Transfer, Pilot Plants for Research & Development, and Control Panels



HEAT EXCHANGER CLEANING SYSTEMS



WSA ENGINEERED SYSTEMS

WSA delivers permanent solutions to problems of macro and micro fouling of hydraulic systems common to many industries including Power Generation, HVAC, Petrochemical, and Municipals. WSA's products include Ball or Brush type Automatic Tube Cleaning Systems, Automatic Backwash Systems, and Automatic Debris Filtration Systems. WSA's equipment will pay for itself quickly through increased application efficiency, and reduced installation, maintenance and downtime.



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 ANY TYPE OF HEAT EXCHANGER.**

Service & Sales Office

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Heat Exchanger Inquiry Form

Provide the information below for a fast and accurate response.

Company _____
 Address _____
 City, State, Zip _____
 Phone _____ Fax _____
 Contact _____
 Email _____

- AIR COOLED EXCHANGER
- SHELL AND TUBE EXCHANGER
- PLATE AND FRAME EXCHANGER
- BRAZED PLATE COPPER/NICKEL

	HOT CIRCUIT	COLD CIRCUIT
Fluid Circulated		
Liquid - GPM or #/hr		
Gas - CFM @ _____ PSIA & _____ °F _____ % R.H.		
Steam - #/hr		
Specific Gravity (Liquid)		
Molecular Weight (Gas)		
Viscosity @ _____ * F (SSU or cp)		
Specific Heat - Btu/lb		
Operating Pressure (PSIG or PSIA) circle one		
Temperature In - °F		
Temperature Out - °F		
Pressure Drop Allowed - PSI		
Fouling Factor		
Heat Transferred - Btu/hr		
ASME Stamp Required Yes / No circle one		
TEMA Requirements (shell & tube only) Yes / No circle one Type _____		
Electric Requirements (Air Cooled only)		
Mounting Requirements Vertical / Horizontal		
Space Limitations		

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