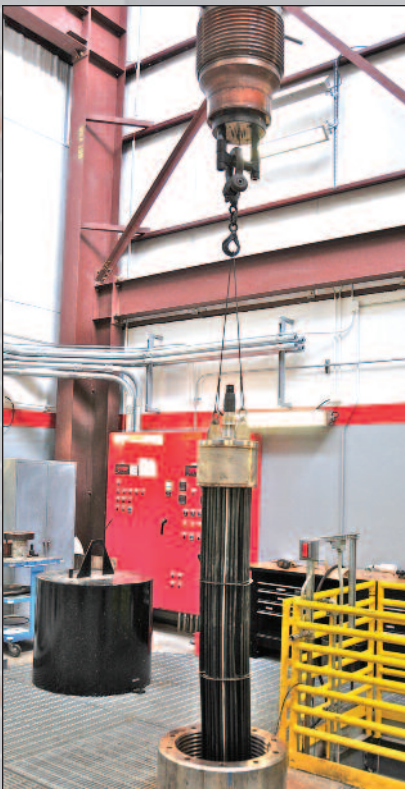


GAUMER[®] PROCESS

50+ Years of Excellence



Electric Process Heaters & Engineered Systems

Company Info

Gamer Process is a world leader in the design and manufacturing of electric heaters, controls and engineered systems, since 1962. Solutions are provided according to all international rules and regulations.

Engineering

- Optimized solutions
- CFD & FEA (mechanical & thermal) analysis
- Hysys process simulation
- 3D plant modeling
- Flow modeling
- Extensive material testing
- Dedicated R&D group
- Registered professional engineers

Innovation

- ▶ Industry firsts
 - 1975 – safety contactor for heater control
 - 1978 – manual reset for heater OTC
 - 1982 – buffer tank for hot oil system longevity
 - 1983 – control panel external heat sink
- ▶ Patents
 - Infi-seal™ heater moisture protection – 7,554,064
 - Renewable heater standoff housing – 7,318,745
 - 4160 Volt electric resistance heaters – 7,372,007
 - Fuel gas conditioning – multiple
 - Optimized heat transfer (AT technology) – 8,295,692
 - Subsea hydrate remediation & prevention – pending
 - Low flow gas heater – pending
 - Vessel wall temperature reduction – pending



Quality

- ASME VIII Div 1
- ASME IX
- ATEX
- AWS D1.1
- CRN
- CSA
- cUL
- GOST
- IECEX
- ISO 9001
- PED
- UL

Facility

- ▶ State of the art campus in Houston, Texas USA
 - 14,000 sq ft heater fabrication & test
 - 10,000 sq ft control panel fabrication & test
 - 16,000 sq ft material preparation
 - 46,000 sq ft systems fabrication, 30 foot crane hook height
 - 20,000 sq ft office space
 - 4160 Volt heater test facility

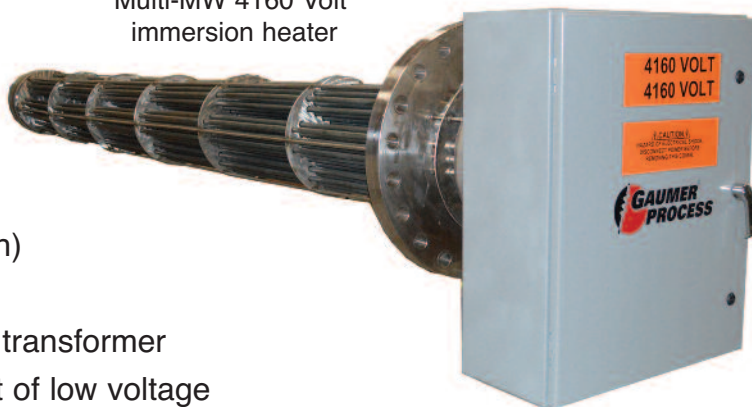
Service

- Expedited design and manufacturing
- Dedicated field start-up & commissioning assistance
- 24/7 emergency support
- Experienced project management
- Large spare parts inventory for immediate shipment
- Export crating and delivery
- Repair all manufacturers' electric heaters



Medium Voltage Heaters & Controls

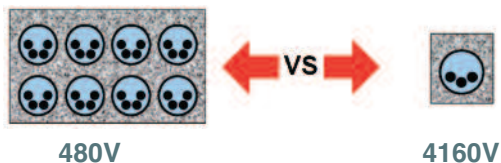
Multi-MW 4160 Volt immersion heater



Benefits

- Large duty 500kW - 30MW (100MBtu/h)
- Zero CO₂ and NO_x emissions
- Easy installation - 90% less wiring, no transformer
- Full thyristor controls - 1/3 the footprint of low voltage

Medium Voltage – Less Wiring

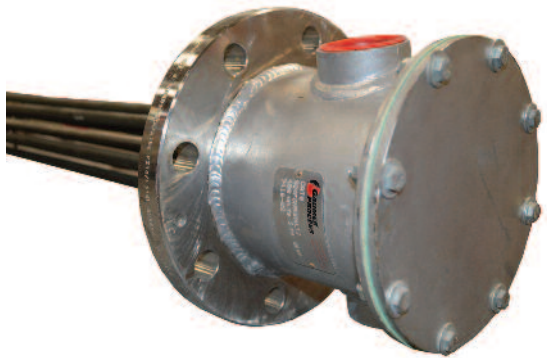


Multi-MW 4160-6600V thyristor control



Subsea heater - 5000V, 3500m depth

Immersion Heaters - Standard

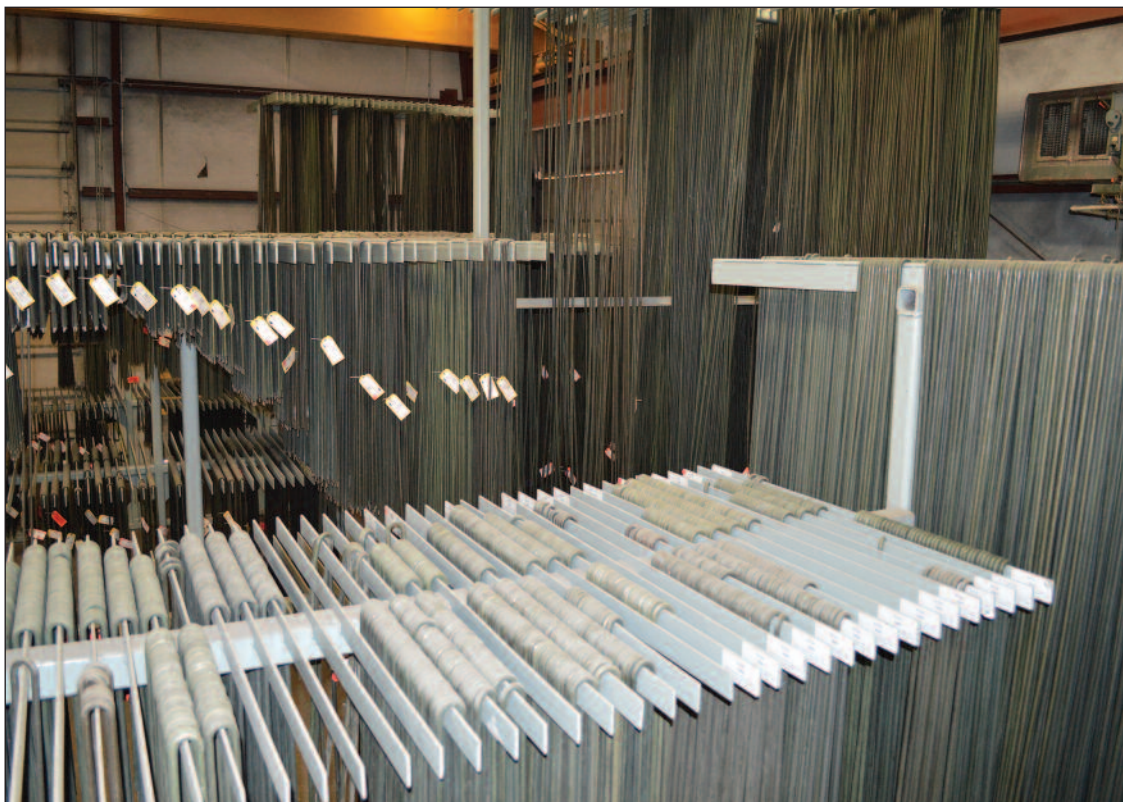


Benefits

- All raw materials in stock
- Immediate fabrication release
- Fast delivery
- Expedited overnight production available

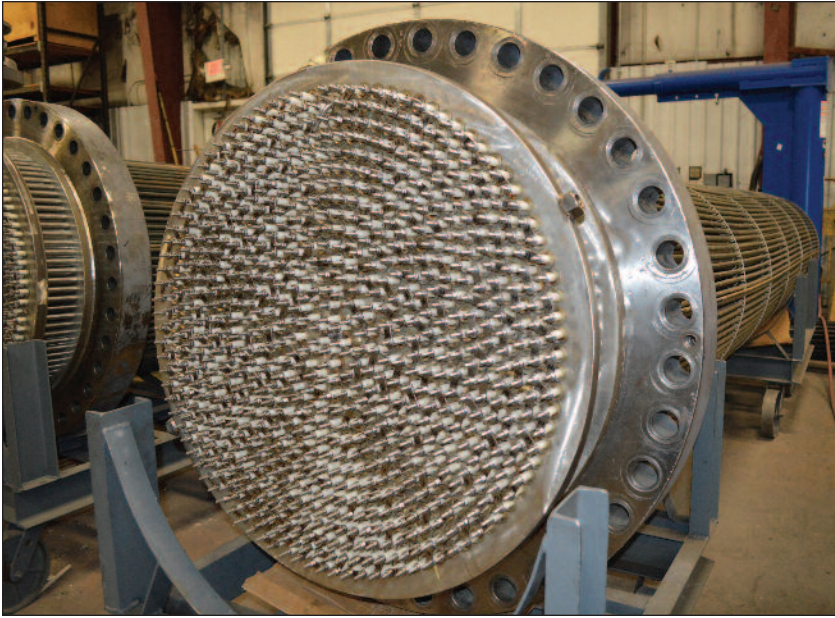
Products

- Flange heaters (3" - 12" ANSI)
- Screw plugs (1.0" - 2.5" NPT)
- NEMA 12, 4 or 7 housings
- Watt density and length for application

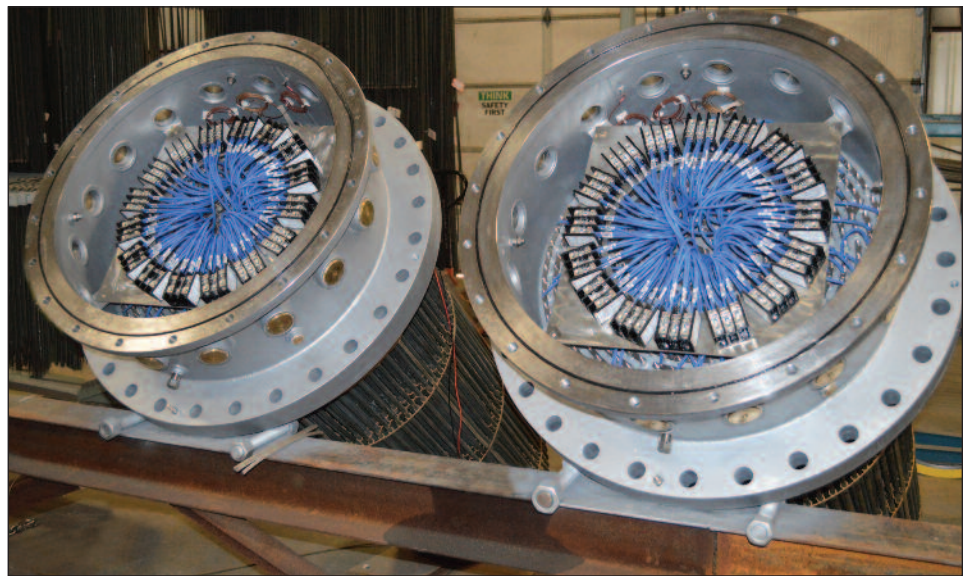


Multi-million dollar tubular element inventory

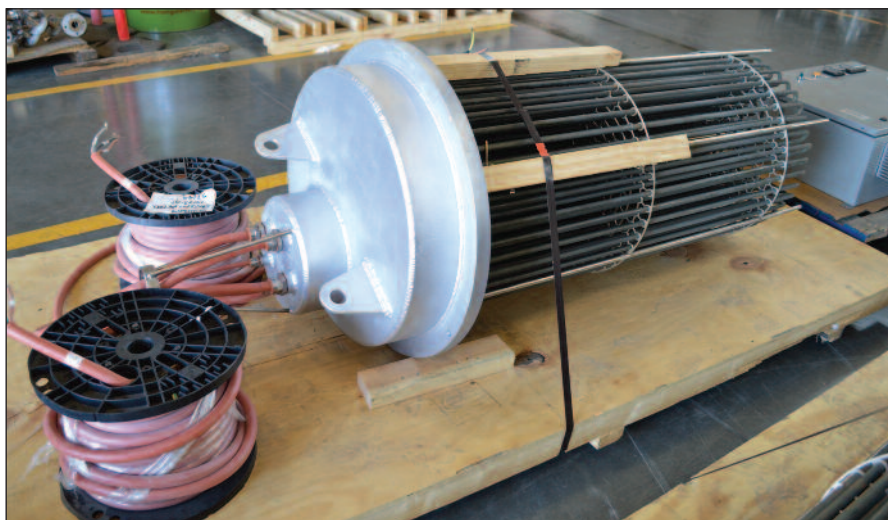
Flanged Heaters - Custom



3500kW CSA Class 1, Zone 2 standoff heaters



ATEX pre-wired distribution blocks



Submersible asphalt heater

Southgate Process Equipment, Inc.

87 Hickory Springs Industrial Dr.

Canton, GA 30115

Phone: (770) 345-0010

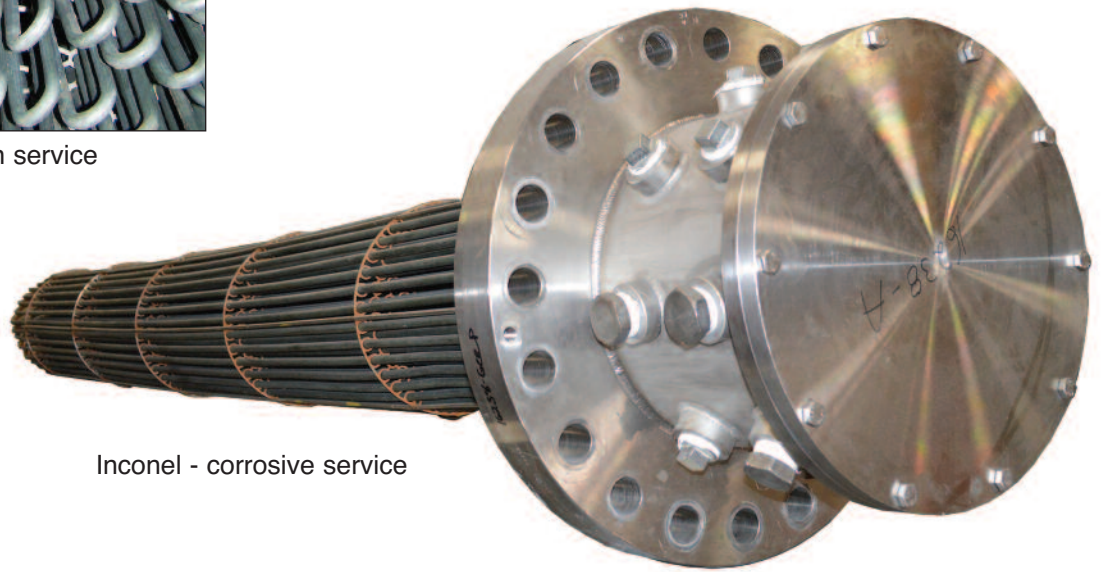
Email: Sales@southgateprocess.com

Website: www.southgateprocess.com

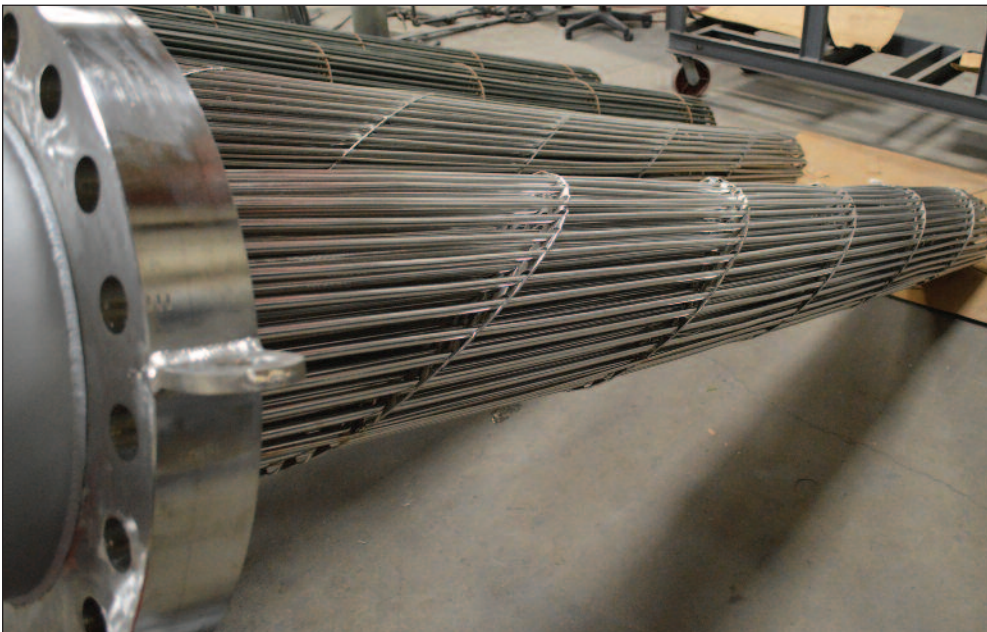
Flanged Heaters - Custom



36" heater for oxygen service



Inconel - corrosive service



Angled turbulators - optimum heat transfer

Circulation Heaters



ASME certified
for non-hazardous



NACE compliant for sour service



ATEX certified for Middle East



NEMA 7, 1MW, CRN



High pressure wellhead service



Diesel fuel oil heaters

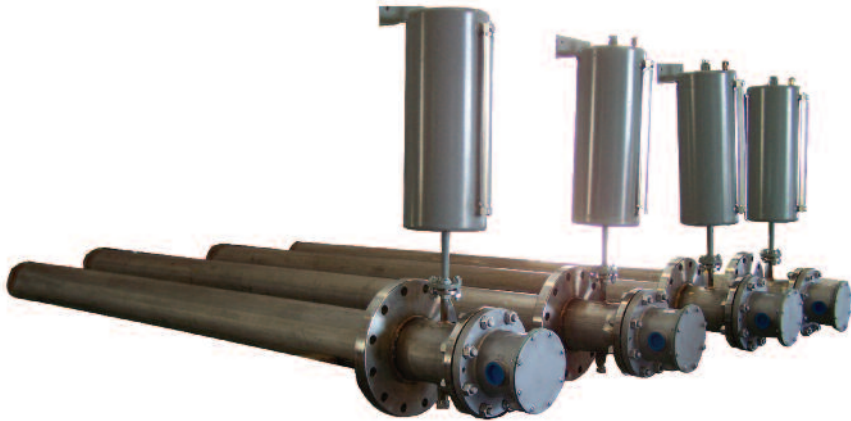
Pipe Insertion Heaters

Benefits

- Indirect Heating
- Heater removal without process interruption
- Filled with air or heat transfer fluid



GOST - 10 meter length Inconel 600



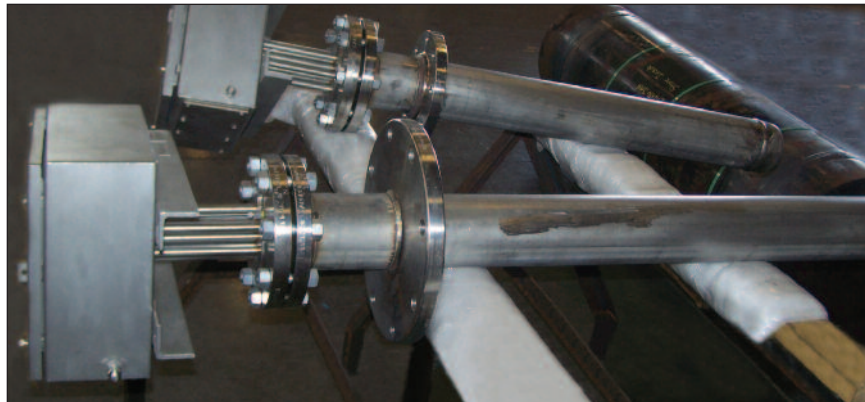
Filled with heat transfer fluid



Indirect molten salt

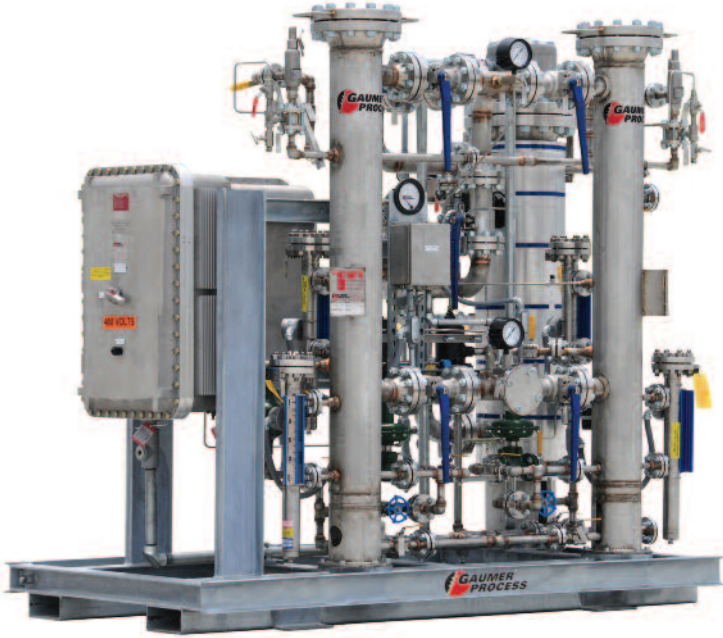


CSA zone 2 offshore critical tank heating



ATEX standoff bayonet

Fuel Gas Conditioning



Mobile, trailer mounted FGCs - 13MW turbines



Upgrade to satisfy California emission standards



Protects 12 Wartsila 18v50SG engines



Production platform off Trinidad & Tobago



Designed and delivered in 6 weeks

Fuel Gas Conditioning



Australian power plant - 100MW turbine



Onshore oil production
- 45MW turbine



Peaking power generation - 60MW turbine



Fuel gas system for 2 GTs combined & 1 GT simple cycle

Control Panels



☒EMA 4X purge with sun shield



Custom for hydrotest chamber



ATEX certified



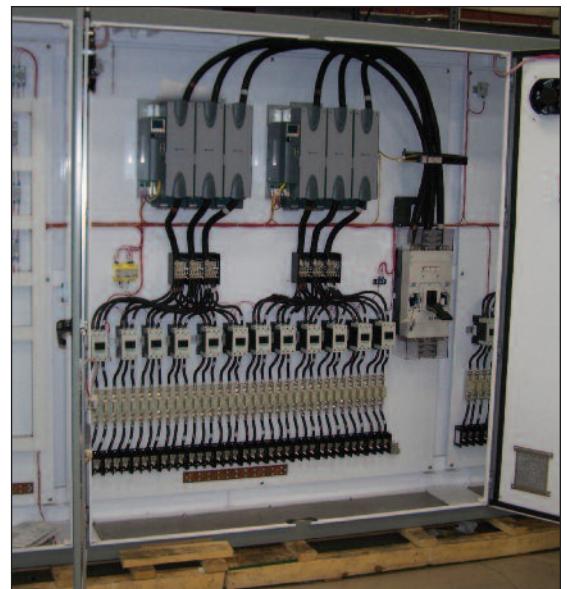
cUL 3200A SCR panel with buss bar

Control Panels

Power plant



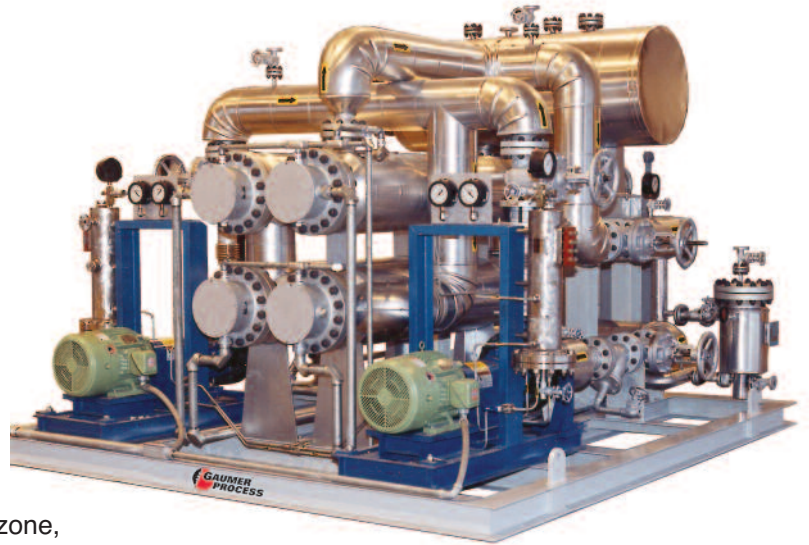
Full thyristor control



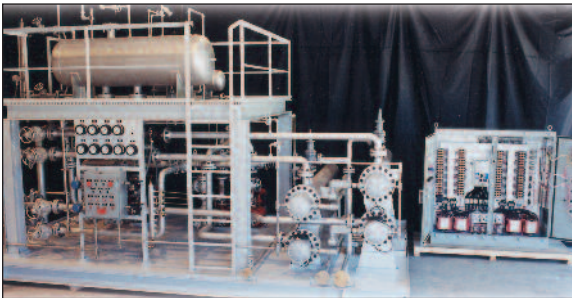
Hot Oil Systems



Multi-zone for Class 1 Div 1



Single zone,
100% SCR for extruder plant



Dual zone, canned motor pump,
hazardous location



Dual zone, mag drive pump for petrochemical



Rental fleet for immediate delivery

Research / Pilot Projects



Band heaters - hydrotest chamber



Multi zone hot air



Wide-open monitor PCV arrangement

Engineered Systems



U.S. Coast Guard shipboard use



Staircase to Australian standards



Seal gas conditioning



Liquid fuel forwarding



Multi-zone hot water for Sakhalin Island, Russia



Dowtherm vaporizer



Fuel gas, double block & bleed

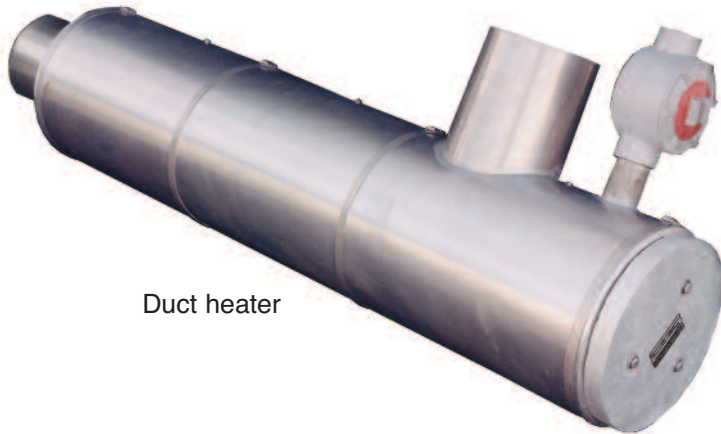
Specialty Heaters



Screw plug heaters



Over-the-side heater



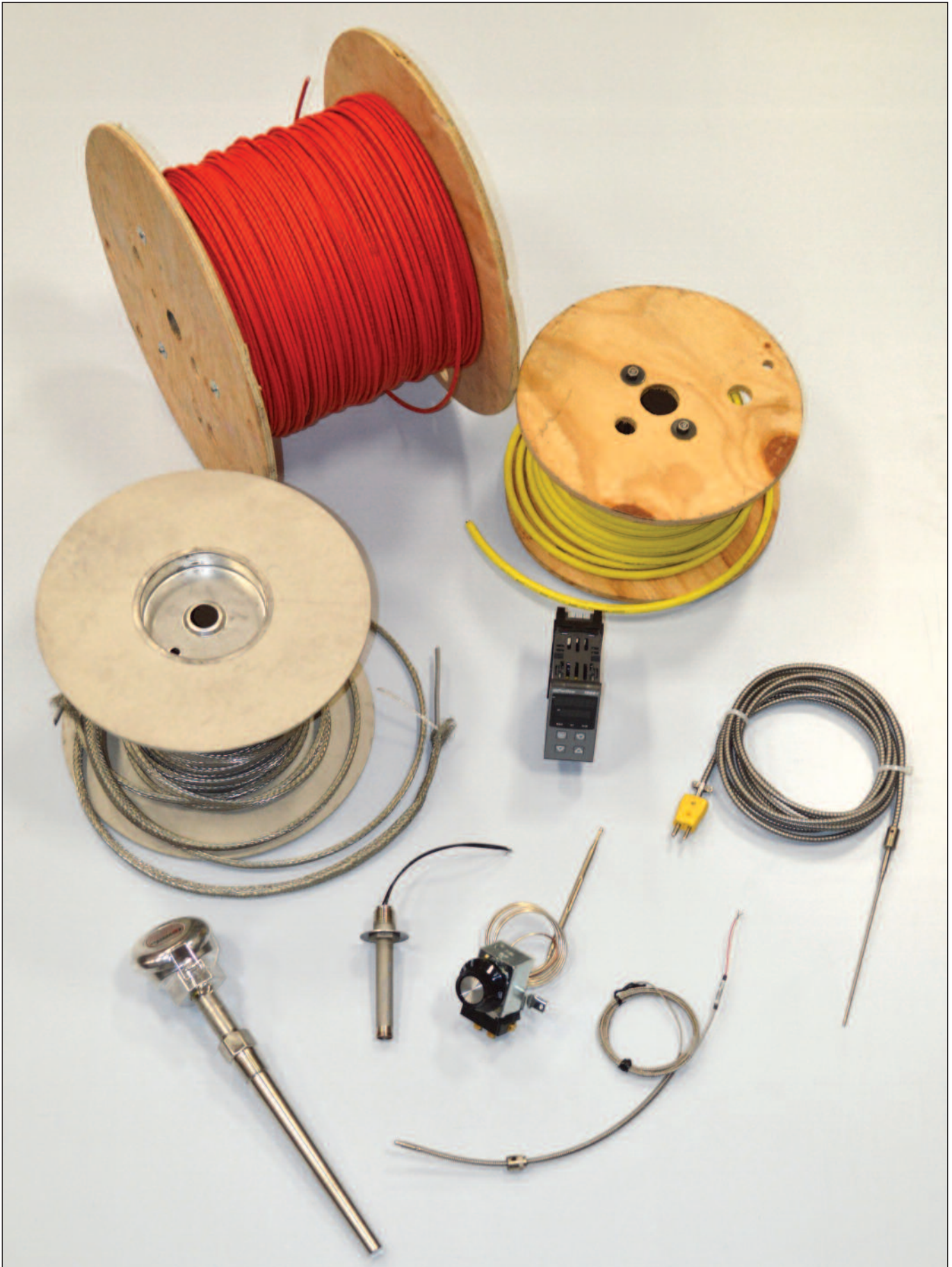
Duct heater



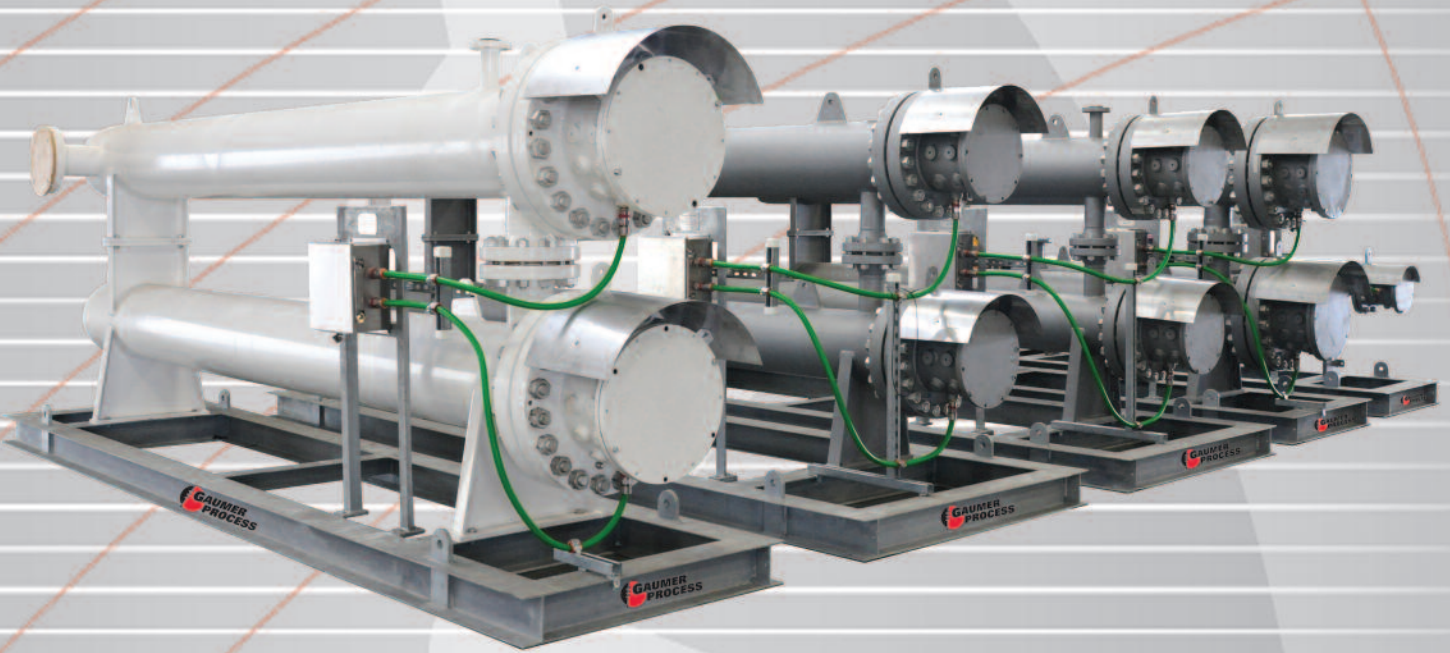
Low flow gas heater



Cartridge, band, enclosure, strip, finned strip, formed tubulars



High temp wire, heat trace, thermocouple, thermowell, heat detector, thermostat, temperature controller



Since 1962

Southgate Process Equipment, Inc.
 87 Hickory Springs Industrial Dr.
 Canton, GA 30115
 Phone: (770) 345-0010
 Email: Sales@southgateprocess.com
 Website: www.southgateprocess.com

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