Electric Process Heaters & Engineered Systems
Gaumer 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
- IECEEx
- 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
Benefits

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

3500kW CSA Class 1, Zone 2 standoff heaters

ATEX pre-wired distribution blocks

Submersible asphalt heater
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
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

Designed and delivered in 6 weeks

Production platform off Trinidad & Tobago
Fuel Gas Conditioning

- Peaking power generation - 60MW turbine
- Onshore oil production - 45MW turbine
- Australian power plant - 100MW turbine
- Fuel gas system for 2 GTs combined & 1 GT simple cycle
Control Panels

NEMA 4X purge with sun shield

Custom for hydrotest chamber

ATEX certified

cUL 3200A SCR panel with buss bar
Redundant NEMA 7 panels for un-manned compressor station

Power plant - multi-MW with air conditioning

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
Band heaters - hydrotect chamber

Multi zone hot air

Wide-open monitor PCV arrangement
Multi-zone hot water for Sakhalin Island, Russia

Dowtherm vaporizer

Fuel gas, double block & bleed
Specialty Heaters

- Screw plug heaters
- Duct heater
- Over-the-side 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