CGThermal

Process Technology Solutions

for Harsh and Corrosive Process Streams

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- The CG Approach
- Our Capabilities and Areas of Expertise
- Advantages of working with us

Company Overview

CGThermal

CG Thermal Expands to Second Facility

- Growing demand for Systems projects
- Space for additional equipment and staffing

CG Thermal Expands to Second Facility

- Specialized systems engineers on staff
- New, larger space to enable further growth

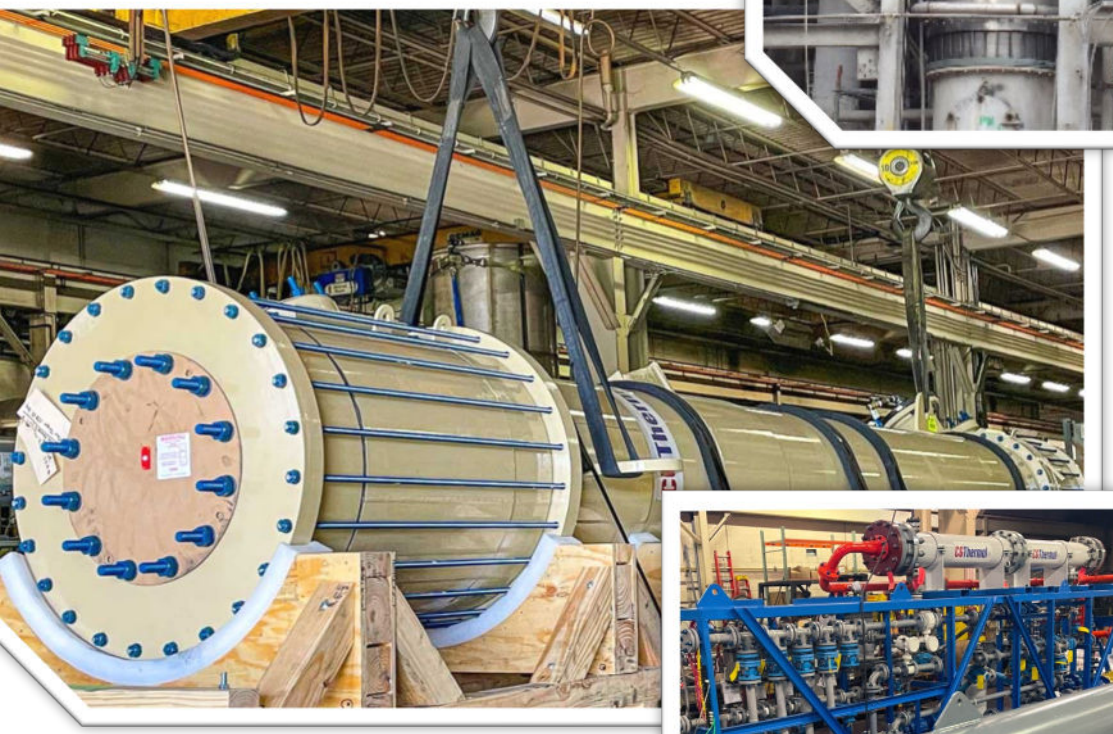
Mission, Values, Vision

At CG Thermal we proudly:

Listen to our customers to understand their unique challenges and objectives.

Design the best solution for their process equipment and systems needs, emphasizing teamwork, safety, and reliability.

Deliver the product solution using only the most suitable materials and technologies available worldwide. The success of our customers is paramount, and we maintain a personal stake in the successful implementation of the result.



We combine our **heat/mass transfer expertise** and fabrication capabilities with our process expertise to deliver optimal, proven processing technology solutions for **harsh and corrosive process streams**

CGThermal

- Turnkey Packaged Unit
- Engineering Services
- Optimization Consulting
- Customer Specific Process Equipment
- Engineering and Technology Support

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Process System Expertise

Additional Areas of Expertise

- **HCL** Recovery
- HCL Azeotrope Breaking
- **AHCL** Production
- **H2SO4** Dilution
- **HF/Nitric** Cooling System
- **Cl2** Recovery
- Pilot plants
- Crystallization
- Pyrolysis
- VOC Stripping / Scrubber

Specialized Materials

With expertise to recommend the most appropriate option for your harsh process requirements

- **Impervite® Graphite**
- **Umax® SiC Ceramic**
- **Impervite® Advanced Graphite**
- **SST/Nickel-based Alloys**
- **Fluoropolymers**

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Impervite® Graphite

- **Excellent corrosion resistance** in reducing environments with higher chloride concentrations.
- Higher thermal conductivity and thermal shock resistance.
- Fully graphitized, more ductile graphite resulting in **extended operating life.**

- Corrosion resistant in all concentrations of HCL and up to 85% H2SO4.

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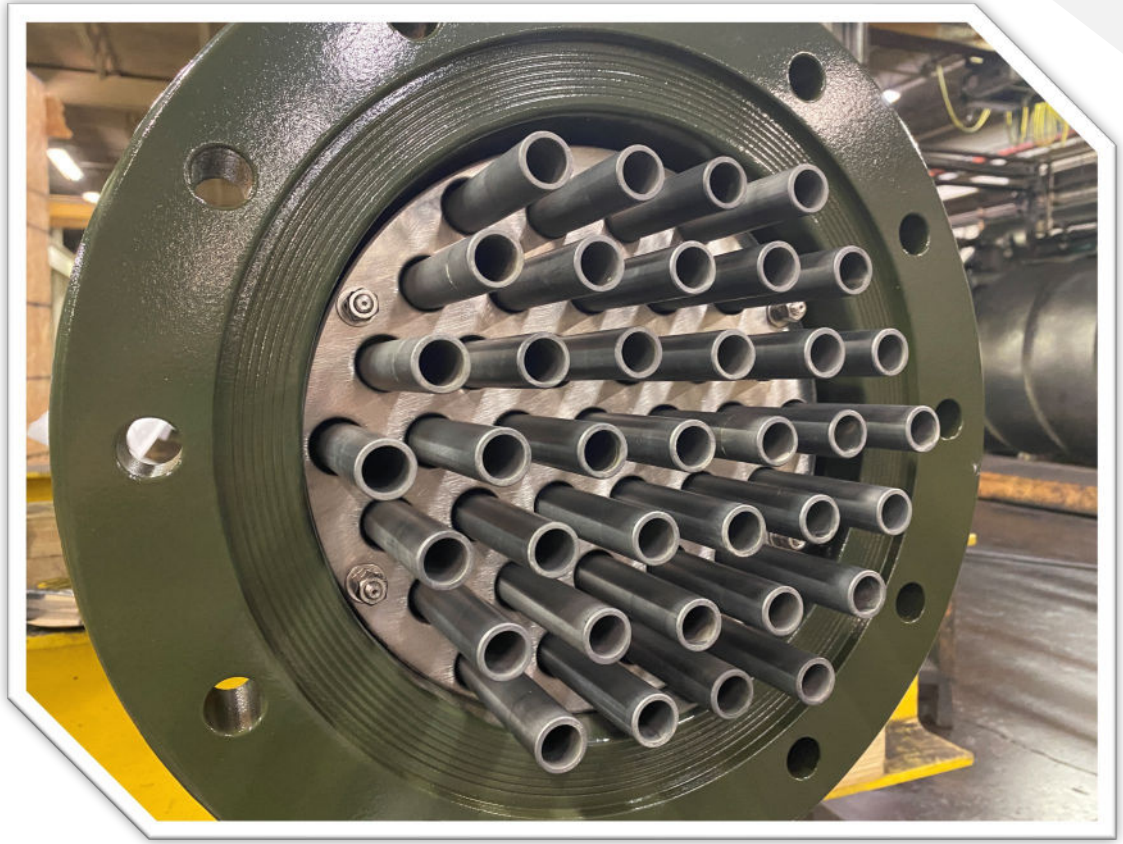
SiC Umax® Advanced Ceramic

- Universally **erosion and corrosion resistant**
- **Unmatched** high thermal conductivity and thermal efficiency
- **Alpha sintered SiC** tube with no free silicon
- Extremely hard, easy to clean surface.



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Impervite® Advanced Graphite

- Graphite composite material
- Extended **corrosion resistance in HCl, H_2SO_4 and P_2O_5 applications.**
- Superior **resistance to thermal stock**
- Ductile material **resistant to vibration stresses**
- Higher pressure applications
- **Resistant to fouling and easily cleaned**

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Nickel-based Alloys

AirBTU.VPRR / HTXP / Quench Lid Advanced

- Well suited for **high-temperature gas to gas** applications.
- Can operate in excess of **2000 Deg F temperature**
- Highly Engineered to avoid stress failures, hot spots, and cold-end corrosion.

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High-Temperature Engineered Solutions

AirBTU.VPRR / HTXP / Quench Lid Advanced

- Well suited for **high-temperature gas to gas** applications.
- Can operate in excess of **2000 Deg F temperature**
- Highly Engineered to avoid stress failures, hot spots, and cold-end corrosion.

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Our Expertise

Heat/mass transfer
Fabrication of Process Equipment
Process Design

Our Values

Listening and Transparency
Commitment to Customer/Project success
Commitment to Innovation

Your Best Solution

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