



CGThermal

Process Technology Solutions
for Harsh and Corrosive Process Streams





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

Company Overview





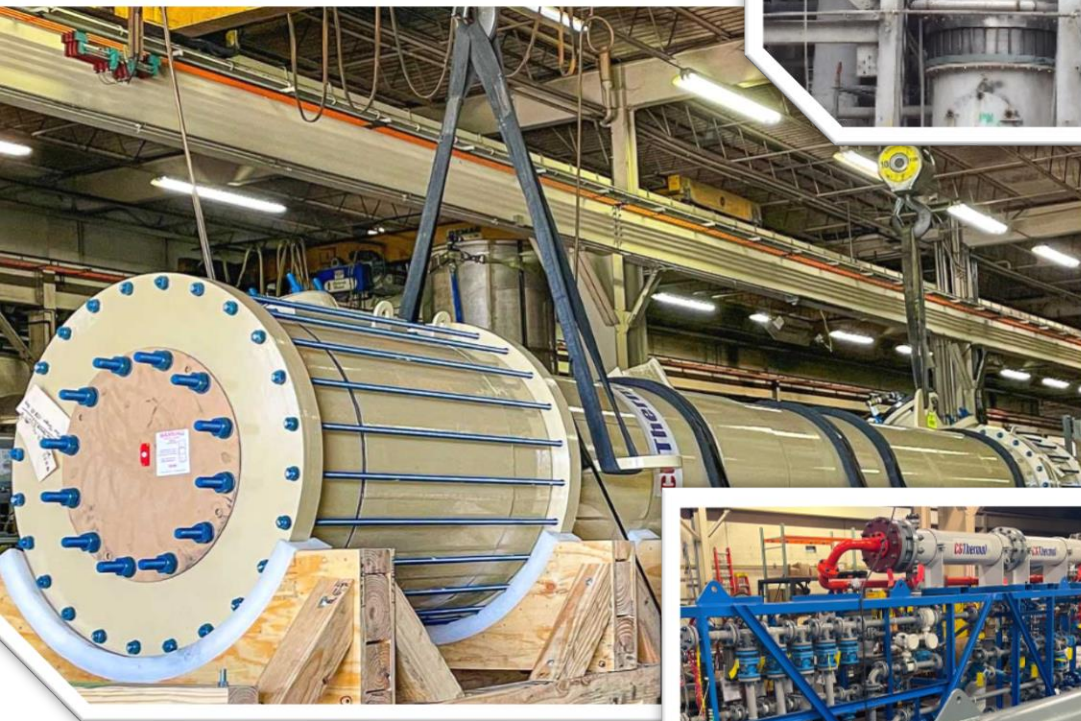
Our mission at CG Thermal is to provide the industry with process technology solutions for harsh and corrosive process streams.

We will use our expertise and partner with customers to provide technologies and innovative solutions to minimize operational costs and maximize productivity.

Our values:

- **Listen** to customers
 - **Understand** and **anticipate** their needs
- **Transparency**
 - Encourage open dialogue to jointly reach optimal solutions
- **Take “ownership”** of equipment and systems supplied
- **Innovation**
 - Continuous improvement in products and services
- Expand our range of expertise
 - Partnering with process and equipment **experts worldwide**

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**



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



Process System Expertise

Additional Areas of Expertise

- **HCL** Recovery
- HCL Synthesis
- **AHCL** Production
- HCL Azeotrope Breaking
- HCL Stream Conditioning
- **P2O5** Burners
- **H2SO4** Dilution
- H2SO4 Regeneration
- **Cl2** Recovery
- VOC Stripping / Scrubber



Specialized Materials

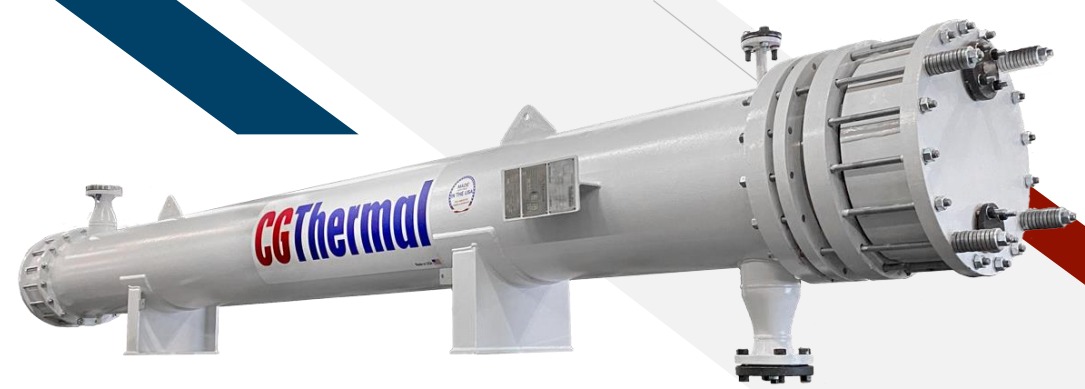
With expertise to recommend the most appropriate option for your harsh process requirements

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



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.**

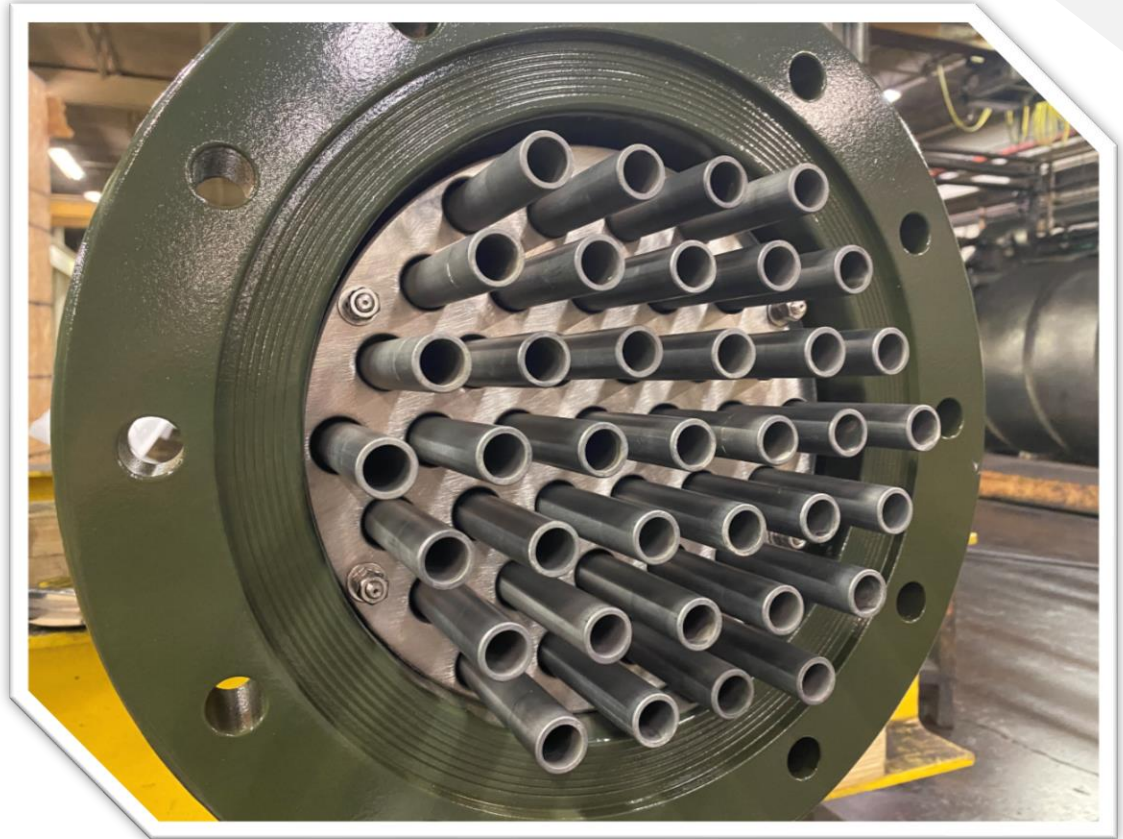


- Corrosion resistant in all concentrations of HCL and up to 85% H2SO4.



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.

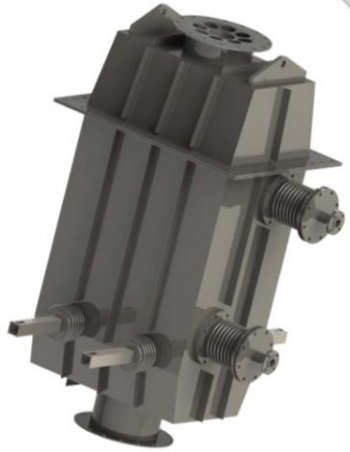


Impervite® PPS-GR



- Graphite composite material
- Extended **corrosion resistance in H₂SO₄ and P₂O₅ applications.**
- Superior **resistance to thermal shock**
- Ductile material **resistant to vibration stresses**
- Higher pressure applications
- **Resistant to fouling and easily cleaned**

Nickel-based Alloys



AirBTU.VPRR / HTXP

- 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.

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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