Turnarounds, Construction, Fabrication & Refurbishment

Specialty services for the energy, petrochemical, refinery, syngas and power industries.

Turnarounds and Construction
- Small and mid capitol construction projects
- Process heater erection and revamps
- Plant relocations, installations and expansions
- Column, tower, drum, furnace and boiler services
- Specialty welding including Inconel®, stainless, chrome and other ferrous metals

Fabrication and Refurbishment
- Direct/indirect fired heaters
- SMR/hydrogen reformers
- Piping/process skids/pressure vessels
- Structural steel/process coils
- Modular fabrication and installation
- Column drum and tower fabrication
- Convection and radiant section
- Coil and heater/crane, tube support fabrication
- Intertubular headers and pigtail/catalyst tube welding
- Spool fabrication in all metallurgies
- Piping and equipment installation and testing

Extensive facilities in Indiana & Houston
Total commitment to safety
Low weld rejection rate
Total project management and execution
ASME ‘S’ & ‘U’ - NBIC ‘R’ certifications
Emergency response

Cryogenic Plant Services
From safety training to full EPC scope, we provide the security of knowing your cryogenic systems are operating with peak efficiency and safety.

- Expert inspection, repair and maintenance of cryogenic systems
- Training and education – options available for on-site and Chart classroom
- Service and maintenance agreements available from 1 to 5 years
- Leasing options

Safety & Rescue
Full service safety group serving the petrochemical, oil & gas and industrial gas industries, electric utilities & generation, construction and steel production sectors.

- Safety supervision and training
- Stand-by rescue for work at heights and work performed in permit required confined spaces
- Safety staffing for Confined Space Attendant, Fire Watch and Supplied Air Attendant roles
- Rope access technicians
- Low and high angle technical response
- Fully stocked trailers available for immediate dispatch

All stand-by rescue teams are comprehensively outfitted with the most up to date specialty equipment and our rescue staff are fully compliant with OSHA and NFPA requirements.

E-mail: info@ChartLifecycle.com
24/7 hotline: 1-844-485-7911 (1-844-GTLS-911)
www.ChartLifecycle.com

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Lifecycle OEM Service and Support

Brazed Aluminum Heat Exchanger Services
Air Cooled Heat Exchanger Services
Turnarounds & Construction
Fabrication & Refurbishment
Cryogenic Plant Services
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**Brazed Aluminum Heat Exchangers**

The brazed aluminum plate fin heat exchangers (BAHX) in the cryogenic section of your plant are very specialized, highly unique, heat transfer equipment. We work together with our clients to evaluate and predict the current health & lifespan of your BAHX fleet across your facilities.

The Chart Lifecycle service offerings bring a proactive versus reactive approach to our clients that help mitigate the risk of plant downtime and the financial impact of lost production and revenue. Increased awareness and attention to operating data and process control help improve plant safety and reliability.

Let us partner with you to achieve those goals!

**Services include:**
- Repair and maintenance including internal cleaning and leak repair
- Preventative and predictive maintenance
- DCS data analysis
- Thermal transient analysis
- Process simulation
- Plant optimization including start-up, operational process controls and process efficiency improvements
- Replacement units (including expedited schedules)
- Commissioning/start-up support
- Operator training
- Long-term service agreements
- Extended warranty, preservation and storage including periodic site monitoring and inspection of equipment at storage site
- Operation and maintenance
- Shutdown and turn-around
- Spare parts

**Air Cooled Heat Exchangers**

Chart Lifecycle is a one-stop-shop for all air cooled heat exchanger (ACHX) parts, servicing, retrofits and replacement units. We can provide immediate field assistance, inspections, and technical support no matter the severity of the issue.

You will have access to our huge parts inventory and direct factory warehouse access for anything we don’t stock. Standard items can even be dispatched the same day. We offer total supply for Chart brands – Cooler Service Company, Happy Division, Tri-Thermal and Esex – extended inventory for other brands, including Conrad, Goodfellow and Western, and can supply parts for all other heat exchangers regardless of OEM.

Our Technical Sales and Field Service team has a combined 50 years industry experience, so you can be certain that your inquiry will be dealt with by an experienced member of our team, who understands the products and your needs.

Our trained engineers provide a full service scope, from helping you keep your coolers in perfect working order, by explaining the recommended simple maintenance steps and the most common causes of performance deterioration, to tailored engineered solutions that upgrade their performance.

**Services include:**
- Commissioning/start-up support
- Equipment check rates
- Like-kind replacement bundles (All OEMs)
- Redesigned tube bundles that fit existing structure
- Troubleshoot performance issues and engineer solutions
- Temperature/pressure re-rates
- Bundle re-tubes
- External and internal fin tube cleaning
- Thermal performance and air-flow testing
- ACHX equipment upgrades
- Field service support for replacing parts
- On-site customer training
- Spare parts

Through the identification of 7 product lifecycle stages we build relationships with plant stakeholders, from process and mechanical engineers through to operation and maintenance personnel, focused on the optimized performance and lifespan of Chart proprietary equipment.

**Seven Product Lifecycle Stages**

- **Order**
  - Order Management
  - Contract OEM Service Contracts
- **Start Up**
  - Installation
  - Testing & Commissioning
- **Upgrade**
  - Maintenance
  - Equipment Upgrades
- **Optimize**
  - Data Center Services
  - Data Analysis
- **Monitor**
  - Data Center Services
  - Remote Data Monitoring
- **Support**
  - Remote Support
  - Cooling System Observing
- **Lifecycle OEM Service & Support**

Chart Lifecycle provides a level of service through the entire lifecycle of our products that is unique, and unparalleled in the markets we serve.
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