

Lifecycle OEM Service and Support Brazen Aluminium Heat Exchangers



Specialty Services for Brazen Aluminum Heat Exchangers,
Cold Boxes and Core-in-Kettle®



www.ChartLifecycle.com

Chart Lifecycle, Inc.

Brazed Aluminum Heat Exchangers



Each Brazed Aluminum Heat Exchanger (BAHX) is a highly specialized piece of heat transfer equipment at the heart of the cryogenic section of your plant and fundamental to its efficient and continued operation.

Chart Lifecycle is dedicated to keeping your BAHX fleets operating with maximum efficiency and longevity. Of course, we're there for you if things go wrong, but ultimately our focus is a proactive approach to improved plant safety and reliability through increased awareness of best practice, process control, effective personnel training and attention to operating data.

Let us partner with you to achieve those goals!

We work with you to evaluate the current health of your BAHX fleet by combining our expertise with modern analytical techniques and providing knowledge and support to all your plant stakeholders; from process and mechanical engineers through to operation and maintenance personnel.

Our analysis can also be utilized to highlight past operating events and practices that may have a detrimental effect on the expected life expectancy of the equipment. In such instances the appropriate remedial action will be specified.

Quality Assurance

- ASME code "S" & "U"
- NBB&PVI "R"



Annual Service Plans

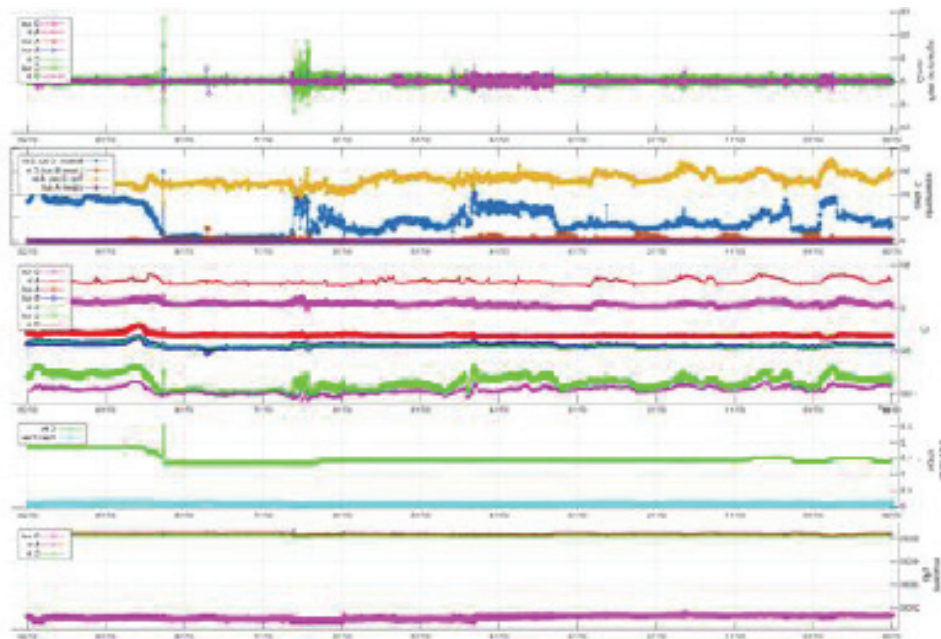
The Chart Lifecycle Service Program will mitigate the risk of downtime and the associated **LOST PRODUCTION** and **REVENUE**.

- Assess current condition of the BAHX inventory
- Evaluate current operations versus BAHX recommended operating guidelines
- Plant process optimization recommendations to support operational challenges
- Mitigate current and future risk of failure
- Support customers in managing BAHX inventory fleet
- Plans for necessary cleaning and repairs and future planned core replacements
- Annual DCS analysis program with report card service
- Detailed analysis of operational and shutdown data
- Review service history
- Review operator logs
- Annual site inspection visits that include operator training
- Access to Chart knowledge center with customized training materials

We recognize that many sites are located overseas and often in remote locations.

Consequently, should you require emergency assistance during the life of a service plan, Chart commits to:

- 24/7 support for emergency requests
- 24 hour mobilization of a site team
- Trained staff with appropriate country visas in place
- Inventory of specialist equipment and consumables and arrangements in place with local suppliers to have them on site within 48 hours



“An Ounce of Prevention is better than a Pound of Cure” Benjamin Franklin



Chart continues to be the industry innovator and we strongly urge you to ask us about the following options with the purchase of your next BAHX.

Mercury Tolerant Construction - Under certain conditions liquid elemental mercury can have severe detrimental effects on unprotected BAHX. Chart's proprietary mercury tolerant solution combines multiple design, material selection and fabrication features that work in tandem with guard beds to protect against mercury attack.

Smart Layer® - is a predictive maintenance solution for BAHX intended to provide prior warning that a core is getting towards the end of its normal service life and will require repair or replacement. Crucially though, it enables the requisite operation to be a planned, rather than emergency, procedure, with the unit functioning normally in the interim. This avoids the significant cost and upset of an emergency shutdown, hence Smart Layer® is an extremely cost effective insurance policy.

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