

SUPERIOR



Cooling Solutions

Air Cooled Heat Exchangers & Axial Flow Fans



Cooler By Design.™

In acquiring Hudson Products and Air-X-Changers, Chart has brought together world-class and trusted leaders for delivering heat transfer solutions to the upstream, midstream, and downstream energy market segments. Chart offers the industry's most comprehensive air cooled heat exchanger portfolio and total lowest cost of ownership across a broad range of applications.



Air-X-Changers



Applications Served

- Natural gas processing
- Natural gas compression
- Oil & gas transmission
- LNG liquefaction & vaporization
- Petrochemical
- Refining
- Power generation
- Engine radiator cooling
- Bitumen extraction and upgrading
- Industrial process applications

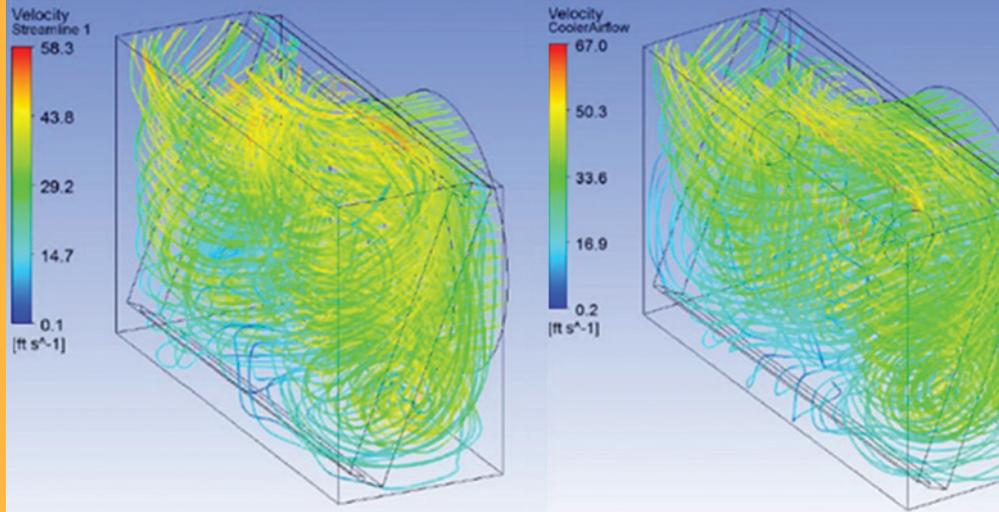
State of the art engineering and manufacturing facilities in Tulsa, Oklahoma and Beasley, Texas with unrivalled aftersales service and support.

Air Cooled Heat Exchangers

Air Cooled Heat Exchangers dominate the landscape of natural gas processing plants, liquefaction facilities, refineries, petrochemical complexes, and power plants. Initial design, operational performance, and reliability are crucial to minimizing capital cost and operating expenditure.

Superior Design and Engineering

- In-house proprietary software
- HYSIS
- AspenOne
- HTRI
- RISA 3-D structural analysis
- Finite element analysis
- Computational Fluid Dynamics



Superior Performance and Service

- High quality, rigorously tested components guard against sudden equipment failure and performance erosion over time
- Highly efficient fans minimize energy costs
- On-site testing, inspection, and adjustment maintain equipment performance efficiency and minimize down-time



Choose Chart superior design, engineering, performance, and service for lowest lifecycle cost of your cooler fleet.

We built our reputation pioneering and continuously improving technology to solve urgent production problems in the field and we have never lost that passion for finding ingenious, cost-effective solutions for our customers.



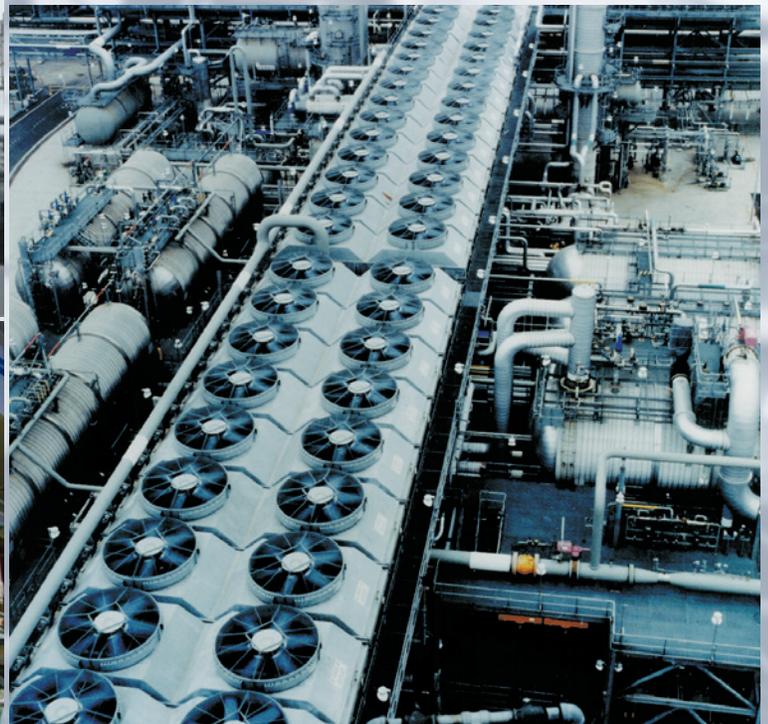
Complete Portfolio

- Full range of horizontal and vertical coolers
- Forced draft / induced draft
- Multiple fan designs
- Engine-, electric motor-, hydraulic motor-driven configurations

Whether it's for smaller gas gathering stations, or large transmission pipelines, there's an Air-X-Changer cooler to meet your gas compression needs.



The efficient design of Hudson coolers reduces plot space and delivers significant costs savings in LNG liquefaction plants.



With a wide range of standard and custom designs available, no project is too large or too small.

Customized Options

- Bundle Configuration – horizontal / vertical / sloped
- Temperature Control - variable speed fans / variable pitch fans / air recirculation / louvers
- Construction – shop or field
- Proprietary winterization designs
- Solutions for low ambient temperatures
- Solutions for viscous or high pour-point fluids
- Ultra-high pressure serpentine coil design
- Louvers
- Bug screens
- Heating coils
- Warm air recirculation
- Maintenance and header walkways
- Ladders



Aftermarket Service and Support

One-stop shop for all equipment servicing, retrofits, replacement units, and parts. We make the improvements that increase your productivity and drive your profitability.



Superior Chart Service

- You will always speak directly with an experienced member of our team so you can be certain that your inquiry is being dealt with by someone who understands the products and your needs
- Not only do we service our own brands, we service those of our competitors, both in the field and at our plants
- Service and site crew mobilization centers in Oklahoma, Texas and Indiana
- The industry's most extensive inventory of spare parts and direct factory warehouse access for anything we do not stock

Optimize the performance of your cooler fleet, regardless of OEM, with our advanced data mapping and diagnostic services. Our technicians come to your site.



Our full service and aftermarket capability is dedicated to keeping you online and productive. We respond to your needs promptly and efficiently.

Immediate assistance at +1 844 485 7911 and info@ChartLifecycle

Axial Flow Fans

There are more than 250,000 **Tuf-Lite** fans in operation in over 100 countries around the world.

Tuf-Lite fans provide the highest levels of performance, durability and efficiency in air cooled heat exchangers, cooling towers, and air cooled steam condensers.



Tuf-Lite® Features

- Available in high efficiency fiberglass reinforced plastic, aluminum and carbon fiber
- Fan diameters from 5' to 40'
- Maximized strength to weight ratio
- Maximum corrosion resistance
- Ultra-high temperature solutions

The vast majority of Tuf-Lite® fans and fan assemblies are backed by a 36 month warranty.

Tuf-Lite® Performance

- 15% to 60% more airflow for improved thermal duty performance and reliability
- Aerodynamic design for even horsepower loading, energy efficiency, and minimized vibration
- Tuf-Edge® proprietary UV resistant coating
- Industry benchmark for low noise solutions



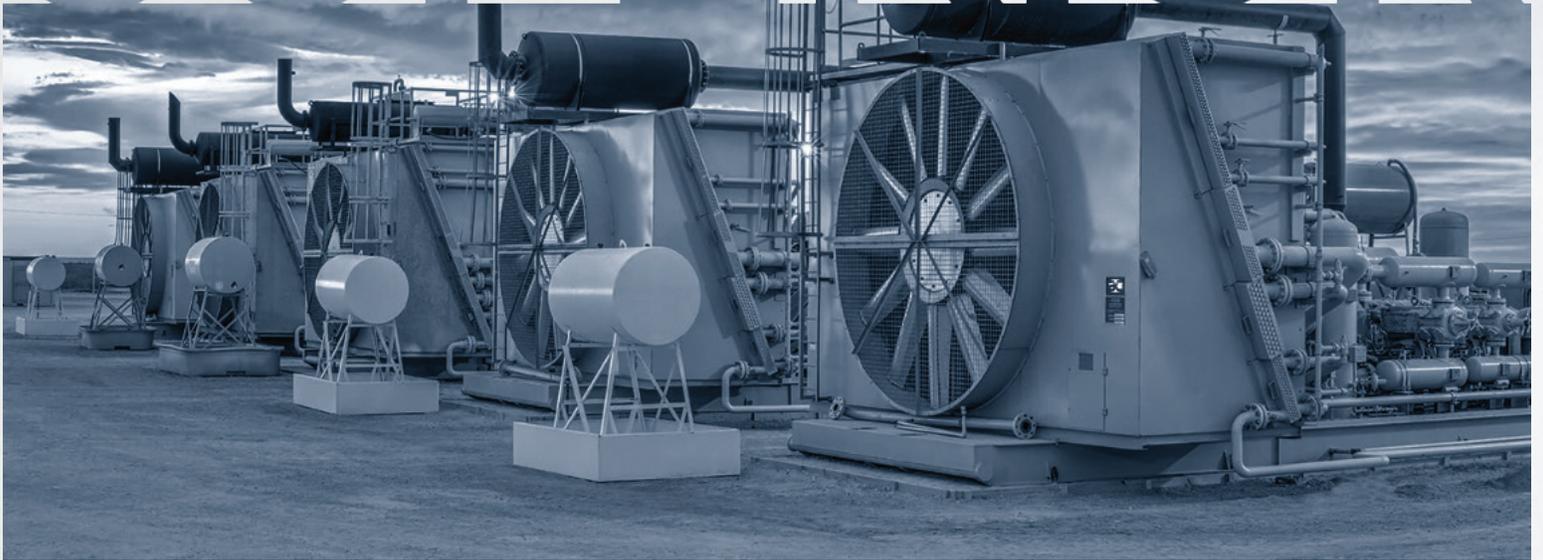
Fan solutions for air outlet temperatures up to 400°F (204°C)

Tuf-Lite IV is the industry's most aerodynamic fan



+1 281 396 8100
TufLiteOrders@hudsonproducts.com
www.Fin-Fan.com

SUPERIOR



Cooling Solutions

Air Cooled Heat Exchangers & Axial Flow Fans

Chart E&C FinFans

Tulsa Facility

Home to Air-X-Changers,
Hammco, Smithco, CSC
5615 S. 129th East Ave.,
Tulsa, OK 74134
Tel: 918-619-8000

Beasley Facility

Home to Hudson Products,
Tuf-Lite fans
9660 Grunwald Road
Beasley, TX 77417
Tel: 800-634-9160

www.chartfinfan.com achx@chartindustries.com



Cooler By Design.™