



Innovation. Experience. Performance.®

# Air Cooled Heat *Exchangers*



*Air Cooled Solutions For Tomorrow's Energy Needs*



CHART COOLER SERVICE COMPANY



# Air Cooled Solutions For Tomorrow's Energy Needs



## ***Innovation***

CCSC's in-house proprietary software performs multiple, real-time design calculations including process simulation for accurate heat load, thermal rating and integrated parametric 3-D modelling. This innovation provides a fully streamlined system with maximum accuracy and responsiveness from quotation to delivery.

## ***Experience***

Chart, through acquisitions of industry names such as Cooler Service Company, Happy Division, Essex and Tri-Thermal, is a leader in ACHX engineering and manufacturing. Being an industry leader starts with its people being client focused.

Driving this focus is our management team, which has more than 150 years combined design and manufacturing experience. It is through our heritage and experienced people that we can provide our clients with superior customer service, both technical and commercial, from project feasibility to execution and beyond to operation and maintenance.

## ***Performance***

Accurate thermal performance, on-time delivery, ease of installation and trouble free operation are cornerstones of all CCSC supplied units. Our relentless development program

ensures that we are always leading the industry to improve every aspect of our products and service.

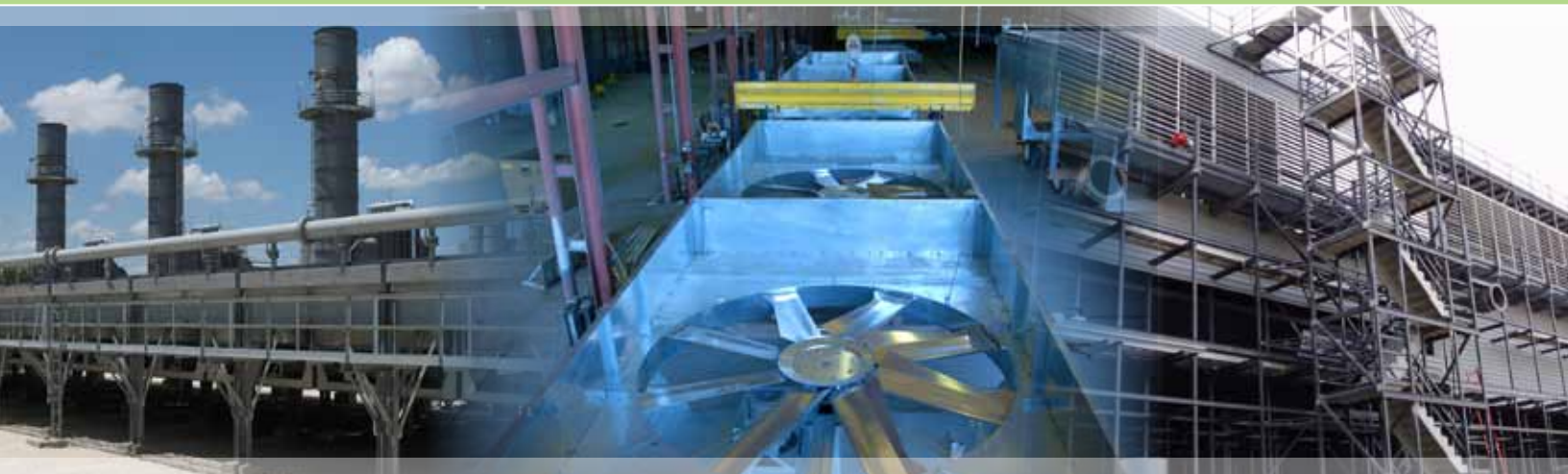
While we offer a complete portfolio of products for standard installations and configurations, CCSC are the people to talk to if you need an Air Cooled Heat Exchanger solution for a severe service or harsh environment.

Our high pressure capability goes beyond 11,000 psig and we offer a variety of materials for high and low temperature applications, as well as low noise design options.

Our high performance standards continue beyond the factory gate to our unrivalled after sales service and technical field support during installation, operation and critical maintenance schedules.

## ***Quality***

(ISO 9001) CCSC implements stringent quality control standards, from receipt of the initial customer inquiry, through design, manufacturing and delivery. Customer attended pre-fabrication meetings are standard procedure, and all units are test erected and run, to ensure proper fit-up and operation prior to shipment.



[www.chartcoolerservice.com](http://www.chartcoolerservice.com)

*Air Cooled Solutions For Tomorrow's Energy Needs*



**Chart Cooler Service Company, Inc. (CCSC)** is based in Tulsa, Oklahoma. Our three facilities collectively provide over 230,000 sq. ft. of manufacturing and assembly space. All of our manufacturing facilities utilize the latest technology in welding, plasma cutting and finning equipment available.

We are dedicated to the custom design and manufacture of Air Cooled Heat Exchangers (ACHX) that serve multiple industries including Gas Processing and Transmission, Petrochemical Processing, Refining, Power Generation and other specialized heavy industries.

CCSC's reputation is founded on a rich history and decades of experience. To ensure maximum responsiveness and accuracy, combined with reduced lead- times, CCSC has automated many of the engineering application packages.

We offer the full range of standard ACHX configurations and fin tubes, but we also provide solutions for units in severe service or located in harsh environments. Furthermore, what others may consider "special" or are unable to provide, such as fully bolted construction and anti-corrosion header coatings, are all part of the standard CCSC product.

In support of your field operation needs, whether new or existing units, our Aftermarket Division is a complete one-stop shop for all your ACHX and Cooling Tower spares, repairs and parts. We service all ACHX units from all manufacturers and offer same day shipment on parts from our comprehensively stocked warehouse.



## ACHX Configurations

### ***H – Model***

- Horizontal – Forced or Induced Draft
- Electric Motor Drive / Optional Hydraulic Drive
- Warm air recirculation system available
- Single or multi-fan configurations
- Up to 60' tube length

### ***V – Model***

- Vertical – Forced or Induced Draft
- Engine drive / Optional electric motor drive

### ***L – Model***

- Vertical – Induced Draft
- Engine driven
- Optional electric motor drive
- Warm air recirculation system available

### ***S – Model***

- Vertical – Forced Draft
- Slant Coil
- Engine drive / Optional electric motor drive
- Warm air recirculation system available

### ***M – Model***

- Single fan shaft for multiple vertical fans
- Up to six fans
- Up to 60' tube length
- Narrow width for minimized shipping cost

The following features are standard for all CCSC supplied units:

- Fully bolted construction
- Galvanized finish (optional painting available)
- Test erection of all ship loose items to ensure proper fit up
- All electric motor driven units test run

### ***Fin Tubes***

- "L" Fin (Tension wound)
  - ~ Overlap
  - ~ Double Overlap
- Wheel Fin
- Embedded Fin
- Extruded Fin

### ***Header Configurations***

- Plug Box
- Split Plug Box
- Removable Cover
- Removable Bonnet

CCSC air cooled exchangers are available with auxiliary equipment such as header walkways, drive maintenance platforms, piperack spanning beams, warm air recirculation systems, steam coils, ladders, pipe supports, and surge tanks.

Equipment can be designed, manufactured and tested in accordance with any applicable recognized national or international design code.



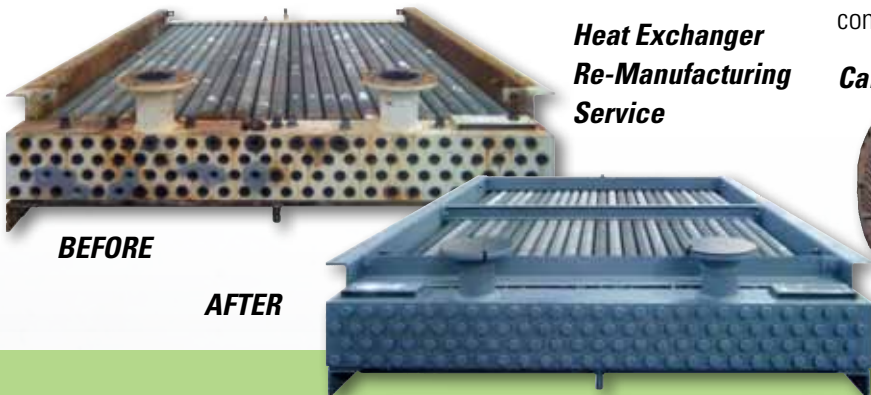
**CHART COOLER SERVICE COMPANY**

# The One-Stop Shop for All Your Aftermarket Heat Exchangers Including Service for All Manufactured Brands.

**From plugs to complete replacement heat exchangers, the Aftermarket Division of CCSC is here to provide assistance no matter the severity of the issue.**

- Complete Fans
- Fan Blades
- Fan Hubs
- Motors
- Belts
- Bug and Hail Guards
- Sheaves
- Bearings
- Shafts
- Vibration Switches
- Plugs and Gaskets
- Motor Slide Bases
- Louvers
- Actuators
- Positioners
- Gear Drives
- Fin Tube
- Ladders

Call us today for a complete list of parts. We stock most parts and have direct access to factory direct warehouses. We strive to achieve same day shipment on all aftermarket parts orders.



**Heat Exchanger  
Re-Manufacturing  
Service**

## ***CCSC's Aftermarket Division is . . .***

**committed to saving you money by reducing your down-time.**

### ***Replacement Tube Service***

We offer quick delivery on retubes of existing bundles regardless of manufacturer. Complete repair, including header and nozzle repair and modifications.

### ***Replacement Coil Service***

Save time and money by replacing the coil assembly that matches the original dimensions, regardless of the original manufacturer.

### ***Replacement Unit Service***

If your site conditions are the same, reduce engineering costs and long lead times with a complete replacement unit.

### ***Quality Control at Every Stage • ISO 9001***

CHART Aftermarket Division implements stringent quality control standards from the initial inquiry to delivery.

***Call us for a quick quote!***



owns the following brands and the original engineering data:



Happy



Essex



Tri-Thermal, Inc.



Cooler Service Company





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