

# Kelvion



## THERMAL SOLUTIONS

### Kelvion Thermal Solutions Service

# OUR SERVICE FOR AIR-COOLED CONDENSER



## FOCUSED ON YOUR SERVICE NEEDS

KTS designs, produces, installs and maintains both single row and multi-row, induced or forced, air-cooled condensers.

Servicing of air-cooled condensers is essential for maintaining performance excellence. From genuine spare parts to comprehensive retrofit and upgrade projects, KTS has the solution to keep your equipment up-to-date and fully operational. Through our own manufacturing facilities and our network of worldwide partners, we can deliver, anywhere, any type of parts, heat exchanger bundles and new solutions (like semi-automatic cleaning device, fogging system, etc.).

Our experts are ready to support your team for troubleshooting, debottlenecking of your installation and onsite technical assistance.

### ALL BRAND SERVICE

Besides being experts in our own products and our former brands, we also have the expertise to service other brands.

## YOUR TOP 5 CHALLENGES



**AVOID UNSCHEDULED DOWNTIME**



**PREVENT CAPEX INVESTMENTS**



**INCREASE PROCESS EFFICIENCY**



**MANAGE THE VARIETY OF BRANDS**



**HAVING THE RIGHT MAINTENANCE SKILLS**

# SERVICE PORTFOLIO – AIR-COOLED CONDENSER



## START-UP & ONSITE SERVICES

- ▶ Installation / Supervision
- ▶ Commissioning



## SPARE PARTS & SPARE PART SOLUTIONS

- ▶ New finned tube bundles
- ▶ Spare plugs, gaskets & sealing
- ▶ Spare rotating parts / Structural spare parts
- ▶ Re-engineering of sub elements and parts supplied by others



## UPGRADES & REPLACEMENTS

- ▶ Upgrade of tube materials and fin design including thermal studies
- ▶ Bundle replacement
- ▶ Fogging systems / adiabatic systems
- ▶ Sound reduction
- ▶ New fans (more powerful / quieter)
- ▶ Reduction of vibrations
- ▶ Total ACC replacement
- ▶ Rerating



## REPAIRS, OVERHAULS & MAINTENANCE

- ▶ Preventive and corrective maintenance
- ▶ Tube external cleaning
- ▶ Sealing of leaking tubes
- ▶ Inner sleeving and tube -end inserts for tubes
- ▶ Retubing
- ▶ Repair, replacement, upgrade of fans, blades, motors
- ▶ Troubleshooting
- ▶ Fan pitch adjustment



## MONITORING, CONSULTING & TRAINING

- ▶ Maintenance training
- ▶ Consulting and audits for air-side performance improvements
- ▶ Cooling performance analysis
- ▶ Airflow testing
- ▶ Thermography
- ▶ Power consumption / Noise level analysis
- ▶ Vibration analysis
- ▶ Mechanical analysis (structure and parts)
- ▶ Finned tubes internal / external fouling studies
- ▶ ACHE thermal performance control
- ▶ MCFD Modelling

## DEBOTTLENECKING: OPTIMIZE YOUR EQUIPMENT

With broad knowledge and proven expertise in the field of air-cooled condensers (ACC), our objective is to ensure the operational availability of your equipment and offering a reliable support whenever you need it.

Kelvion Thermal Solutions works hand in hand with your team to develop, analyse and evaluate the performance of your ACC.

All surveys begin with a clear objective examination of the real potential of your equipment.

Our audit covers the performance test of your air-cooled condensers: air flow, static pressure, electrical consumption, input/output temperatures on the air and process sides, mechanical inspection, sound level measurements, vibration analysis, thermal images.

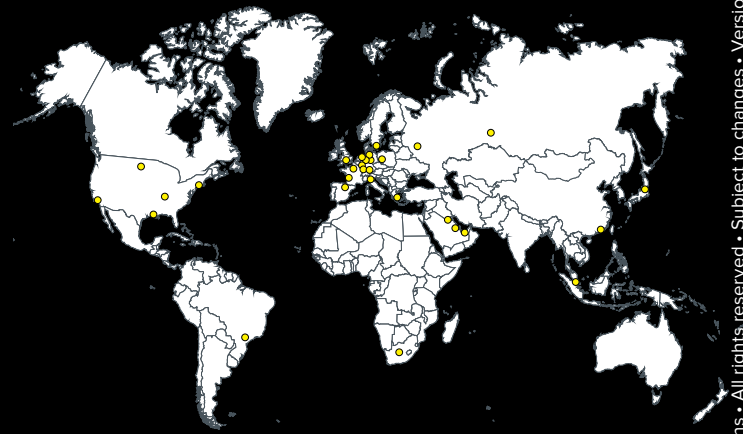
Once all data gathered, Kelvion Thermal Solutions experts will perform CFD analysis and an accurate thermal assessment based on KTS My-ACC.

You will receive a comprehensive and detailed technical report and a clear list of problems found with their impact on performance and recommendations to recover the original performance of your equipment.

[www.kts.kelvion.com](http://www.kts.kelvion.com)

## MORE THAN 30 SERVICE LOCATIONS **WORLDWIDE**

The KTS Service starts from our first contact with you and continues after your order has been delivered, with us as your reliable service partner. With many years of experience in the field of service management, along with our service centers worldwide, we can guarantee the satisfaction of our customers.



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