

Kelvion



THERMAL SOLUTIONS

Kelvion Thermal Solutions Service

OUR SERVICE FOR AIR FIN COOLER



EXTEND LIFETIME INCREASE PERFORMANCE

KTS designs, produces, installs and maintains Air Fin Coolers. Servicing of AFCs 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. Through our own manufacturing facilities and our network of worldwide partners, we can deliver, anywhere, any type of parts and heat exchanger bundles. We would like to increase the performance of your existing plants, e.g. by using our new galvanized CWE finned tubes or the aluminum finned tubes "Groovy" and "Diasta", or to significantly reduce noise and power consumption. Our experts will support your team in troubleshooting, optimizing your equipment and providing on-site 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 FIN COOLER



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, fans
- ▶ Re-engineering of sub elements and parts supplied by others



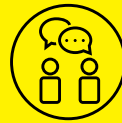
UPGRADES & REPLACEMENTS

- ▶ Upgrade of tube materials including thermal studies (Alu)
- ▶ Upgrade of fin design / profiles including thermal studies (Alu)
- ▶ Bundle replacement
- ▶ Fogging systems
- ▶ Sound reduction
- ▶ New fans (more powerful / quieter)
- ▶ Vibration reduction
- ▶ Total AFC replacement
- ▶ Rerating



REPAIRS, OVERHAULS & MAINTENANCE

- ▶ Preventive and corrective maintenance
- ▶ Fin tube external cleaning
- ▶ Fin tube internal & external cleaning
- ▶ Sealing of leaking tubes
- ▶ Inner sleeving and tube -end inserts for tubes (Alu)
- ▶ 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
- ▶ CFD Modelling

INCREASING COOLING CAPACITY WITH NEW FINS

After many years, sometimes decades of operation, heat exchangers must be either repaired, re-tubed or completely replaced.

Usually, the finned tube bundles are replaced 1:1, to achieve the same process data. Often, however, a performance increase of the system is required, or the power consumption or noise is to be reduced. By using new Kelvion Thermal Solutions heat exchanger tubes you can extend the life of your equipment and improve its performance.

In this way the performance of the air cooler can be increased by more than 20%.

Completely galvanized CWE tube

- ▶ Performance increase > 20
- ▶ Lower costs
- ▶ Better energy balance and noise reduction with the same footprint



New finned tubes (DIESTA & GROOVY)

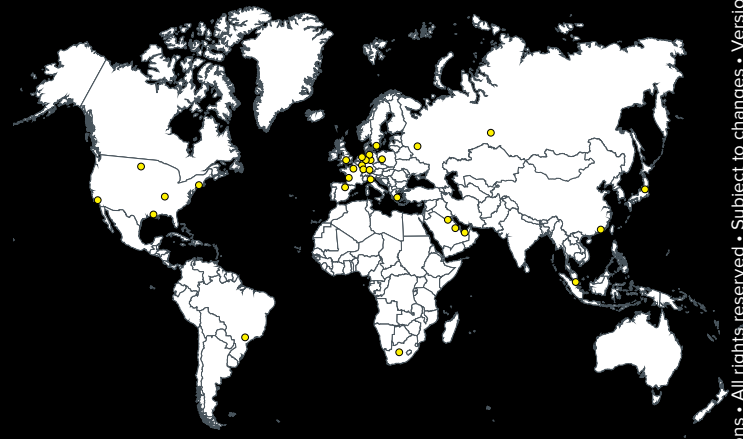
- ▶ Better heat output due to higher turbulence
- ▶ Reduction of "dead zones" as a result of the grooves



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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