



KL-Lämpö
OPTIMIZED WATER TREATMENT



Water treatment service company

PROMOTING ENERGY EFFICIENCY

Comprehensive water treatment services

KL-Lämpö Oy specializes in water treatment products and services that promote energy efficiency. Founded in 1993, the company is recognized as a trusted partner for industrial, energy and building sector clients.

Our expertise is based on our trained personnel with extensive experience in energy-efficient solutions. Our operations rely on high-quality water analysis and research conducted in our own laboratory. **We operate in the field of responsible cleantech, aiming to promote energy efficiency and sustainable development.**

Our values are customer orientation, reliability, responsibility, sustainability and well-being at work. Our mission is to help our customers operate more energy-efficiently and in an environmentally sustainable way, while improving reliability and reducing costs.

Reliable operation and cost savings

The optimal performance of heat transfer systems requires clean heat transfer surfaces. With our water treatment services, corrosion levels can be controlled and the formation of deposits can be prevented. Water treatment also helps ensure appropriate water quality for different applications.

Our operations are based on high-quality water analysis and research conducted in our own laboratory.

Minimize production disruptions caused by water quality

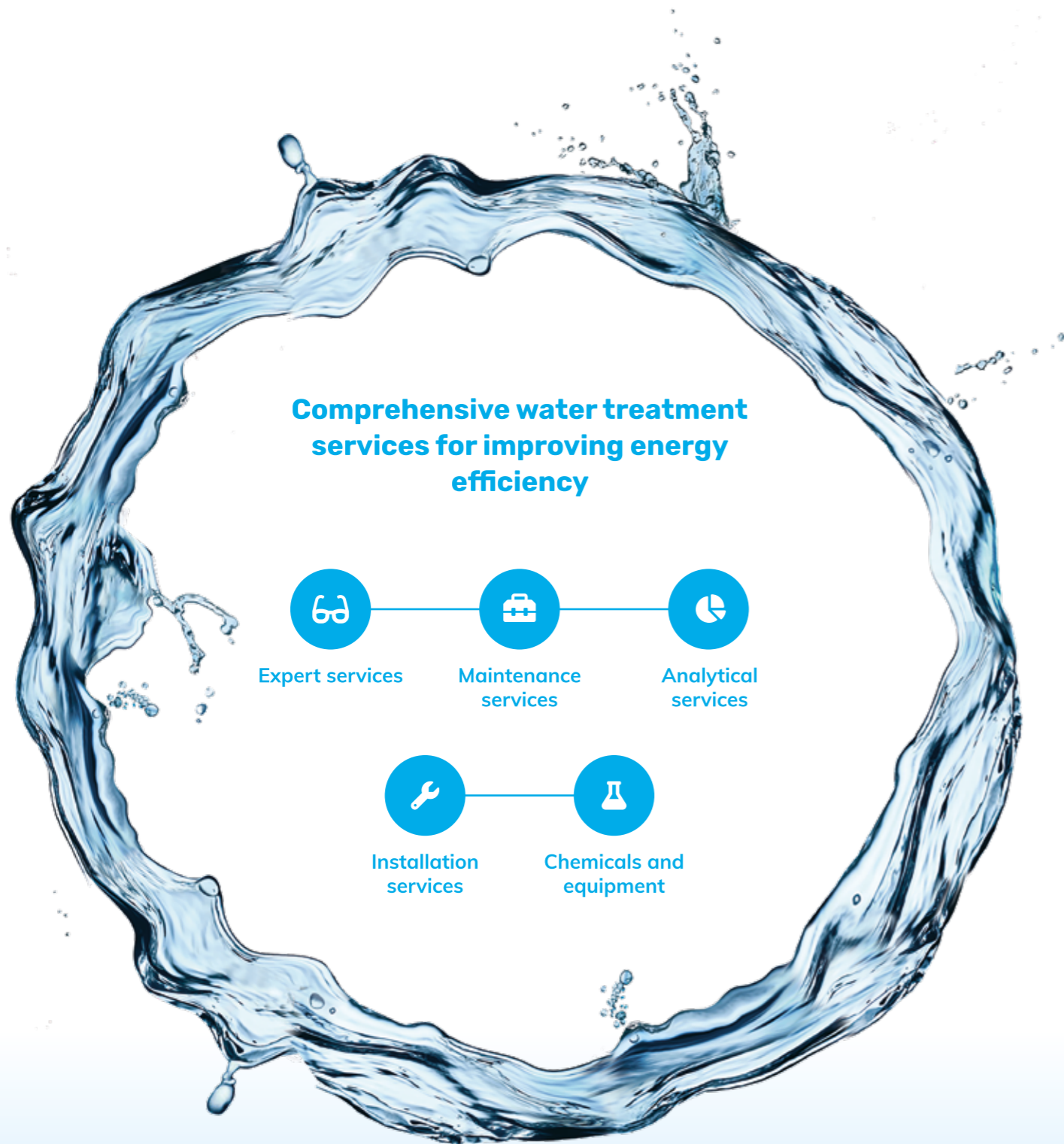
Ensure production stability through water treatment

Improve the energy efficiency of heat transfer

Reduce maintenance costs



1993	1995	1997	2004	2010	2012	2013	2014	2015	2018	2022	2025
KL-Lämpö Oy is founded in Tampere.	KK-620 corrosion inhibitor, tested by VTT Technical Research Centre of Finland, is introduced.	New chemicals for high-pressure boilers are developed and introduced to the market. Export operations begin.	New premises are opened in Pirkkala. The range of building maintenance services is expanded.	A branch office is established in Espoo.	Cooperation with Lanxess Lewatit ion exchange resins begins.	New, larger premises are opened in Pirkkala, along with expanded maintenance services for heat exchangers.	KL-Lämpö's quality management system is certified according to ISO 9001. A product development project for advanced high-pressure boiler chemicals begins.	Turnover exceeds €5 million. The number of personnel reaches 40. KL-Lämpö receives Pirkkala's Entrepreneur of the Year award.	The premises are expanded to accommodate new facilities for heat exchanger maintenance.	The Key Flag symbol, previously granted for services, is extended to main product groups. Over 6,000 samples are analyzed annually in the laboratory.	Turnover exceeds €11 million. KL-Lämpö receives EcoVadis Bronze rating. Systematic sustainability reporting (VSME) initiated.



High-quality partnership – customized services

Preventive maintenance

Water treatment is an essential part of the preventive maintenance of heat transfer systems. It reduces the need for equipment maintenance, minimizes production downtime and delays the need for new investments.

Versatile and flexible service

We serve our customers in a comprehensive and tailored manner. Our water treatment products and services are developed based on customer needs and in close cooperation with them.

The quality of our products and services is always our top priority. We expect our partners to operate responsibly and in accordance with our quality requirements.

Our goal is to build long-term customer relationships based on trust.



Our quality management system complies with the ISO 9001 standard and has been certified accordingly. Our operations are based on continuous improvement of our products, services and processes. We always take into account the individual needs and requirements of each customer.



KL-Lämpö has been awarded a Bronze medal in the EcoVadis sustainability assessment, which evaluates our performance in social, economic and environmental responsibility.

The EcoVadis assessment provides significant benefits to our customers: it offers a reliable and independent evaluation of our sustainability performance and supports our customers in their supplier assessment processes.



The Finnish Work Association has granted our company the Key Flag symbol as an indication that our services are produced in Finland.

The symbol has been awarded to our maintenance, repair and monitoring services for liquid circulation systems, as well as to our heat transfer fluids, Peitex cleaning chemicals and corrosion inhibitor chemicals (including chemicals for district heating, cooling systems and steam systems).



Surveys and analytical services

We survey our customers' heat transfer systems by documenting the equipment and analyzing heat transfer fluids in our laboratory.

Water analyses can also be carried out regularly, according to customer needs, to prevent problems before they occur.

Our customers always receive system-specific maintenance recommendations and cost estimates for the required measures.



Maintenance and repair services

The aim of our maintenance and repair services is to ensure uninterrupted operation of our customers' heat transfer systems and processes.

Our customers can also entrust us with the entire maintenance of their heat transfer systems.

Our installation team carries out maintenance and repair work professionally and cost-effectively, using our own equipment and purpose-designed chemicals. We can respond quickly to maintenance needs, even at short notice.



Expert, training and consulting services

We provide expert, training and consulting services in water treatment. Our specialists help to identify optimal solutions for customer-specific needs.

We support our customers in the commissioning and use of our products. Technical support from our partners is also available when needed.

We organize tailored training sessions on water treatment and plant-specific requirements. In addition, we provide lectures at educational institutions and industry seminars.

INDUSTRY

Cost savings and operational reliability for industry

Water plays an important role in almost all industrial production. Properly managed water treatment reduces the need for equipment maintenance and minimizes unexpected production downtime. It improves the operational reliability of systems and postpones the need for new investments.

Our industrial customers include companies in the paper and forest, food, metal, chemical and plastics industries. We serve industry broadly across a wide range of water treatment needs at different stages of the process. We clean and protect heat transfer systems against corrosion.

A significant part of our comprehensive service offering consists of the maintenance, refurbishment and refilling of glycol systems, as well as the cleaning and corrosion protection of heating systems. We optimize the performance of aqua heat recovery systems and clean sealing water lines in the paper and forest industry. In addition, we service heat exchangers at our service center and carry out CIP (Cleaning in Place) at customer sites.

Our water treatment services also cover the maintenance of cooling systems and cooling towers. For low-pressure steam and district heating plants, we provide suitable chemicals and dosing solutions, as well as analytical and consulting services.

Our services are supported by a wide range of water treatment equipment that enhances system reliability.

Our laboratory provides a wide range of analytical, troubleshooting and product development services for industrial customers.



High-pressure boilers

Increasing demands for energy efficiency place stricter requirements on water quality and water chemistry.

A comprehensive system survey helps identify optimal, system-specific water treatment solutions.

Continuous product development enables us to respond to changing requirements. Chemical performance is monitored through water analysis and internal inspections of steam boilers.

Oxygen scavenging and alkalization

The corrosion-passivation balance in boiler feedwater systems is mainly affected by the concentrations of oxygen and reducing agents in the water. Each system is unique and requires a tailored water treatment approach.

The optimal chemical treatment program is selected based on system structure, materials and water analysis. The aim is to ensure reliable and long-term operation.

Scale inhibitors

Insufficient water treatment and system leaks may lead to the precipitation of different compounds.

Problems in heat transfer and equipment damage caused by scale and deposits can be prevented by using dispersants, which keep the deposits in suspension so they can be removed through blowdown.

District heating systems

In cold climates, district heating is a common way to distribute heat from production plants to end-use applications. System structures and materials vary, and feedwater quality ranges from natural water to fully desalinated water.

Therefore, chemical treatment must always be selected based on system-specific requirements. Our product range takes into account differences in materials and water quality.

Our services also include cleaning of district heating networks and heat exchangers.

ENERGY SECTOR

Optimized energy production for power plants

Water treatment in the energy sector is subject to strict requirements to ensure economical and uninterrupted operation of power plants. Well-managed water treatment is a key part of preventive maintenance.


Our products and services help optimize water treatment processes in power plants. Our customers in the energy sector include steam power plants, district heating plants, power generation facilities, as well as wind turbines.

We provide services for make-up water production, water pre-treatment, and various stages of steam generation and utilization. Our product range for district heating includes water treatment chemicals and equipment.

Preventive maintenance helps maintain the performance of wind turbines and restore their operating condition. It also helps avoid unexpected downtime, equipment damage and costly repairs.

We have developed our own method for maintaining cooling systems in wind turbines, which enhances the cleaning and refilling of the systems. Our personnel with specialized safety training maintain wind turbine cooling systems using our own purpose-designed equipment. Our team is trained to carry out demanding system maintenance.

We also collaborate with major manufacturers of frequency converters for wind turbines, and continuously develop our products and services together with them.



Fewer unexpected maintenance visits

Energy-efficient and reliable heat transfer

Savings in maintenance and repair costs

BUILDING SECTOR

Energy-efficient heat transfer for buildings

The aim of our facility management and building services is to ensure the energy-efficient, economical and reliable operation of heat transfer systems in buildings.

Our customers in the building sector include owners of industrial, commercial and residential properties, as well as companies responsible for their management and maintenance.

Savings in investments and maintenance costs

The performance of heat transfer can be improved by maintaining the condition of heat transfer systems. Preventive maintenance improves the operation of control systems and equipment, ensures more even heat distribution and reduces the need for maintenance visits.

Preventive maintenance also helps prevent damage to pipelines and equipment, resulting in savings in maintenance and repair costs.

Comprehensive solutions for improving energy efficiency

We provide surveys of heat transfer systems, analytical services, and maintenance and repair services for the building sector.

Our services cover heating systems, cooling systems, cooling towers, and glycol-based heat recovery and condensing systems.

We carry out commissioning and remediation (restorative) cleaning of liquid circulation networks, as well as corrosion protection. We take in used glycol solutions and deliver them for further treatment. We clean and service heat exchangers from all manufacturers at our service center or at the customer's premises.

Our comprehensive service offering ensures optimal solutions for customer-specific water treatment needs.



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