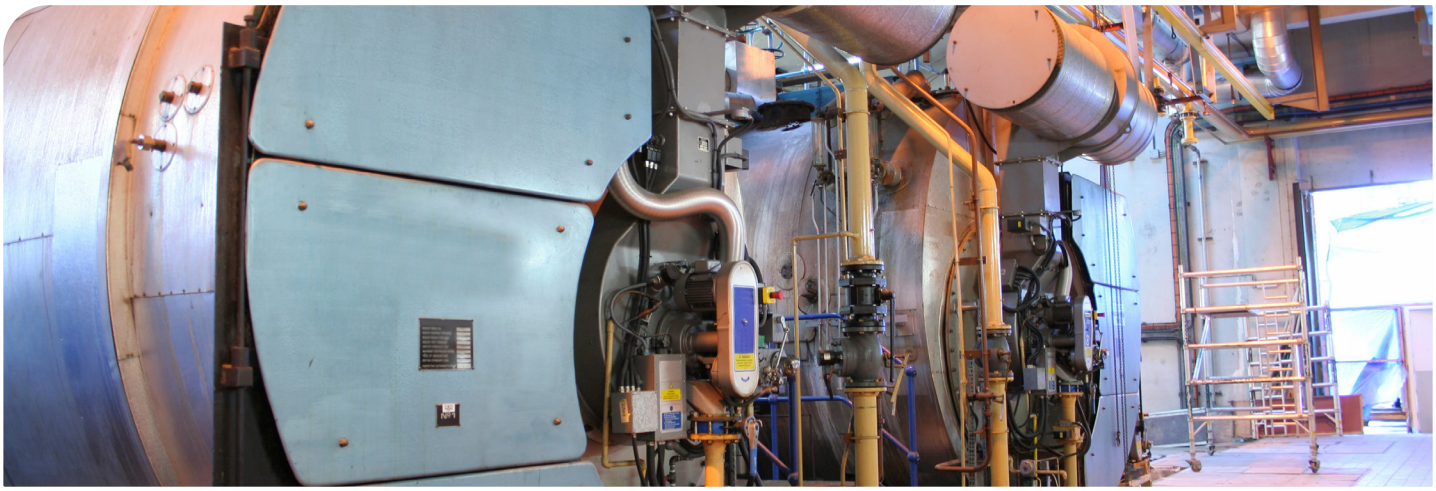
FORCE
Technology

Derisking
Tomorrow



Treatment and monitoring of make-up water and circulation water

Control water quality, reduce the risk of corrosion and deposits, and ensure optimal operation of your heating systems.

Force Technology provides consultancy, water analyses, troubleshooting and technical support on water treatment and monitoring of larger heating systems.

Safe, energy-efficient and cost-effective operation of larger heating systems using water as the heat transfer medium
In larger heating systems that use water as the heat-transfer medium, water quality directly impacts operational reliability, energy efficiency and service life. Inadequate water treatment can lead to corrosion, limescale deposits, bacterial growth and unnecessarily high operating costs.

With systematic treatment and weekly monitoring carried out by operating personnel, combined with investigations and technical support from Force Technology, potential problems with make-up water and circulation water can be identified at an early stage. This makes it possible to optimise operation and protect system components against deterioration.

The number of analyses and the choice of analytical methods depend, among other things, on the design of the system, the volume of water, the quality of the make-up water, etc. We therefore recommend defining analysis and test plans in dialogue with us to ensure that the relevant quality requirements are covered. We use the recommended values from the Danish District Heating Association (DFF) as our basis.

For weekly analyses carried out by operating personnel, we recommend the following parameters:

Make-up water
- Appearance
- Odour
- Chloride (if the make-up water is produced by demineralisation or reverse osmosis)

Circulation water
- Appearance
- Odour
- pH value
- Total hardness
- Conductivity
- Chloride (if the make-up water is produced by demineralisation or reverse osmosis)

In addition to ongoing monitoring, we recommend carrying out extended analyses 2–4 times a year covering all relevant requirements and recommended values from the Danish District Heating Association. We can carry out these analyses.

In addition to the parameters mentioned above, it is important to carry out analyses to determine residual chemical concentrations. The analyses required will depend on which chemicals are added to the make-up water and circulation water.

The results from ongoing monitoring and the extended analyses can be used for troubleshooting and for identifying the causes of any exceedances or deviations. This makes it possible to address problems before they develop and affect system operation.

The outcome

Ved at sikre By ensuring treatment and monitoring of make-up water and circulation water, you gain:

Increased operational reliability	Continuous monitoring of water quality reduces the risk of operational disruptions caused by corrosion, limescale precipitation and oxygen ingress into the system.
Lower energy and maintenance costs	Correct water treatment contributes to efficient heat transfer and reduces the need for unplanned maintenance and repairs.
Protection of system components	Monitoring parameters such as pH value, hardness, conductivity and oxygen content helps prevent internal corrosion and deposits in pipes, boilers, heat exchangers and distribution systems.
Documented water quality	Regular analyses provide an overview of the condition of the system and form the basis for adjusting water treatment and chemical dosing as required. .
Advice in the event of deviations and operational problems	Analysis results can be used for troubleshooting and for identifying the causes of issues such as elevated conductivity, hardness, low pH or bacterial growth in the system.

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