sera

WATER TREATMENT AT THE COOLING TOWER

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PROTECTION FOR COOLING TOWERS AGAINST CORROSION AND DEPOSITS

Reliable water treatment in cooling towers thanks to precise dosing technology

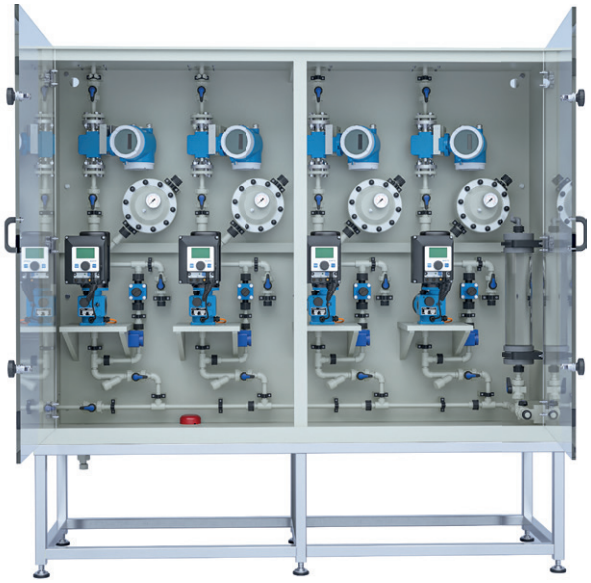
In conventional power plants, waste heat is dissipated via cooling towers and the cooling water is circulated. Without targeted chemical treatment, this operation inevitably leads to corrosion, deposits, and biological contamination - with direct effects on heat transfer, operational safety, and plant availability. Continuous and demand-based dosing of inhibitors, hardness stabilizers, acids, or alkalis is therefore a central component of cooling water treatment: it stabilizes the water chemistry, protects the plant technology, and ensures efficient and economical cooling tower operation.

Challenges in cooling tower systems

- Corrosion due to unstable water chemistry and aggressive media.
- Deposits impair heat transfer and efficiency.
- Biological contamination increases cleaning and maintenance costs.
- Fluctuating pH values endanger materials and operational safety.
- Untreated systems cause efficiency losses and higher operating costs.

The solution from sera

- **Targeted dosing:** Dosing of corrosion inhibitors, hardness stabilizers, acids, and alkalis for stable cooling water chemistry.
- **Modular system:** Flexible dosing stations for different plant concepts and performance ranges.
- **Designed for specific media: Chemical-resistant pumps and pipes, optionally gas-tight for outgassing media such as ammonia.**
- **Safe installation:** Mounting panel with drip tray, optionally with floor frame.
- **High operational reliability:** Compact design, leak monitoring, and robust materials such as PVC, PP, PVDF, or stainless steel.
- **Easy integration:** Wall or floor mounting for easy retrofitting of existing systems.



The dosing systems from **sera** ensure stable cooling water quality, provide lasting protection for cooling towers and connected systems, and enable safe, efficient, and economical power plant operation.

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