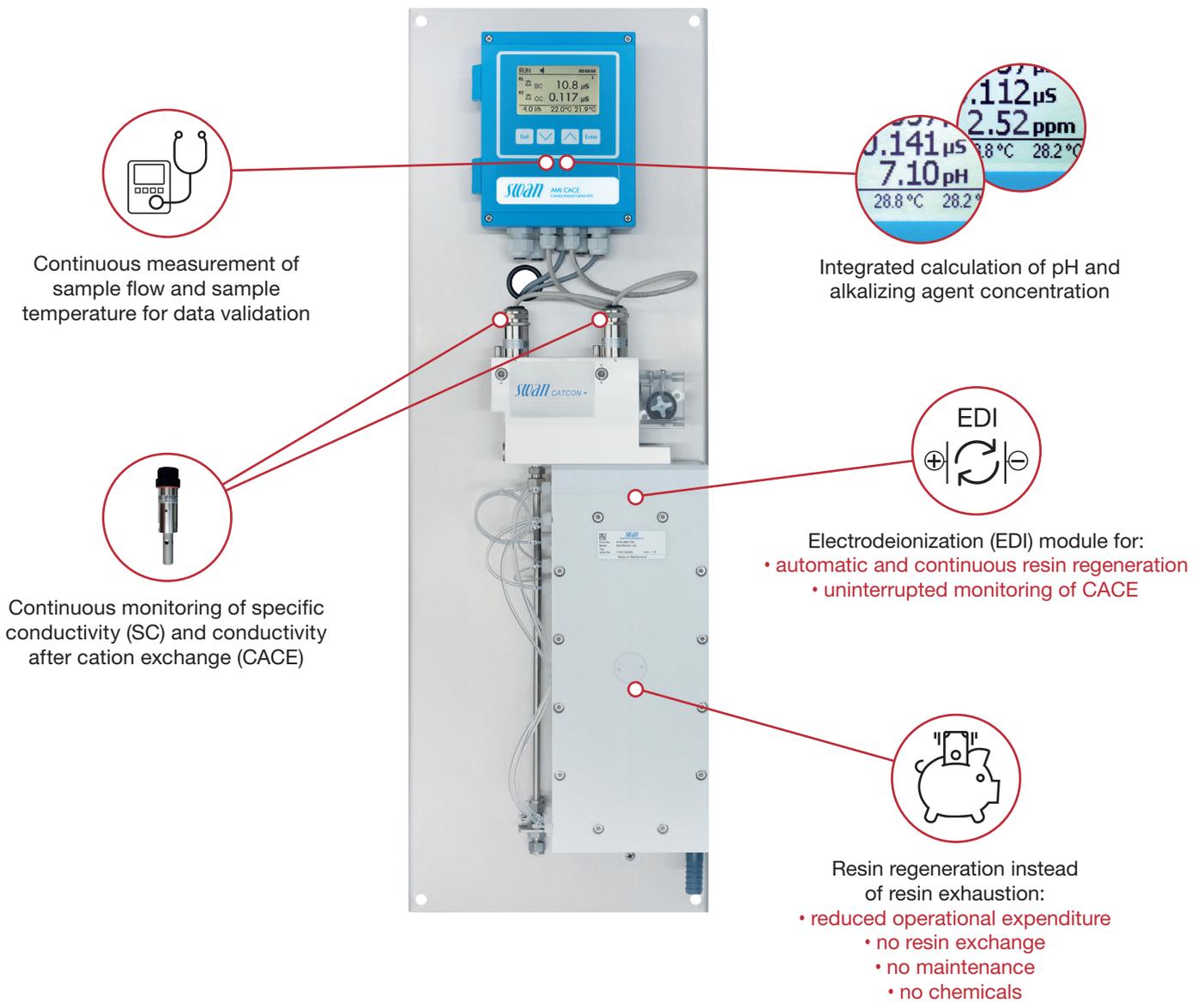


AMI CACE

One unit to measure both conductivity before (SC) and after cation exchange (CACE). Unique electrodeionization module (EDI) for automatic, continuous resin regeneration. Dependable, uninterrupted and without resin exhaustion. Self-diagnostic functions ensure for highest reliability and minimized maintenance.



Specific Conductivity (SC)
0.055-1000 $\mu\text{S}/\text{cm}$

pH Value
7.5-11.5

Conductivity after Cation Exchange (CACE)
0.055-1000 $\mu\text{S}/\text{cm}$

Alkalinization Agent
Concentration in ppm

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AMI CACE with electrodeionization (EDI) module: The economical solution to measure CACE

Conductivity after cation exchange (CACE) is the most important parameter in order to monitor the purity of a water steam cycle. In all water steam cycles, but especially ones with high pH regimes ($\text{pH} \geq 9.8$), the benefits of the AMI CACE's are of highest importance.

Conventional cation resin columns are exhausted fast and frequent resin replacement or regeneration is necessary, driving high operating costs. Whereas conventional CACE monitoring relies on costly resin columns to undertake cation exchange, Swan's AMI CACE online monitor is equipped with a proprietary, cost saving electrodeionization module:

Continuous regeneration of the embedded resin

Exchange of depleted resin material is no longer required, maintenance costs are significantly reduced.

Uninterrupted data availability

Downtime due to regular resin exhaustion is avoided, resulting in continuous reliable data.

Improved data quality

Resin leakages are prevented, the impact of the measurement on the CACE value is minimized, ensuring accurate readings.

Reduced maintenance

Aggressive chemicals are no longer necessary for resin regeneration, resulting in lower waste disposal costs.

Significantly reduce the cost of ownership with the AMI CACE: No resin, no maintenance, no use of chemicals.

Range of Applications

Peaking combined cycle power plants

Significantly lower maintenance efforts with automated start-up, shutdown and EDI module deaeration routines. Short rinse down times allow immediate monitoring after start-ups while low resin consumption reduces costs positively.

Industrial power and steam generation

Cost efficient instrument operation without the need of extensive maintenance.

Nuclear power plants

High pH values require high use of resin in conventional CACE monitoring. Reduce resin consumption with an EDI module and lower waste disposal costs.

Fossil-fired base load power plants

Avoid maintenance times for monitoring and use less regeneration chemicals in order to reduce operating costs.

Swan Analytical Instruments · CH-8340 Hinwil

www.swan.ch · swan@swan.ch

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