

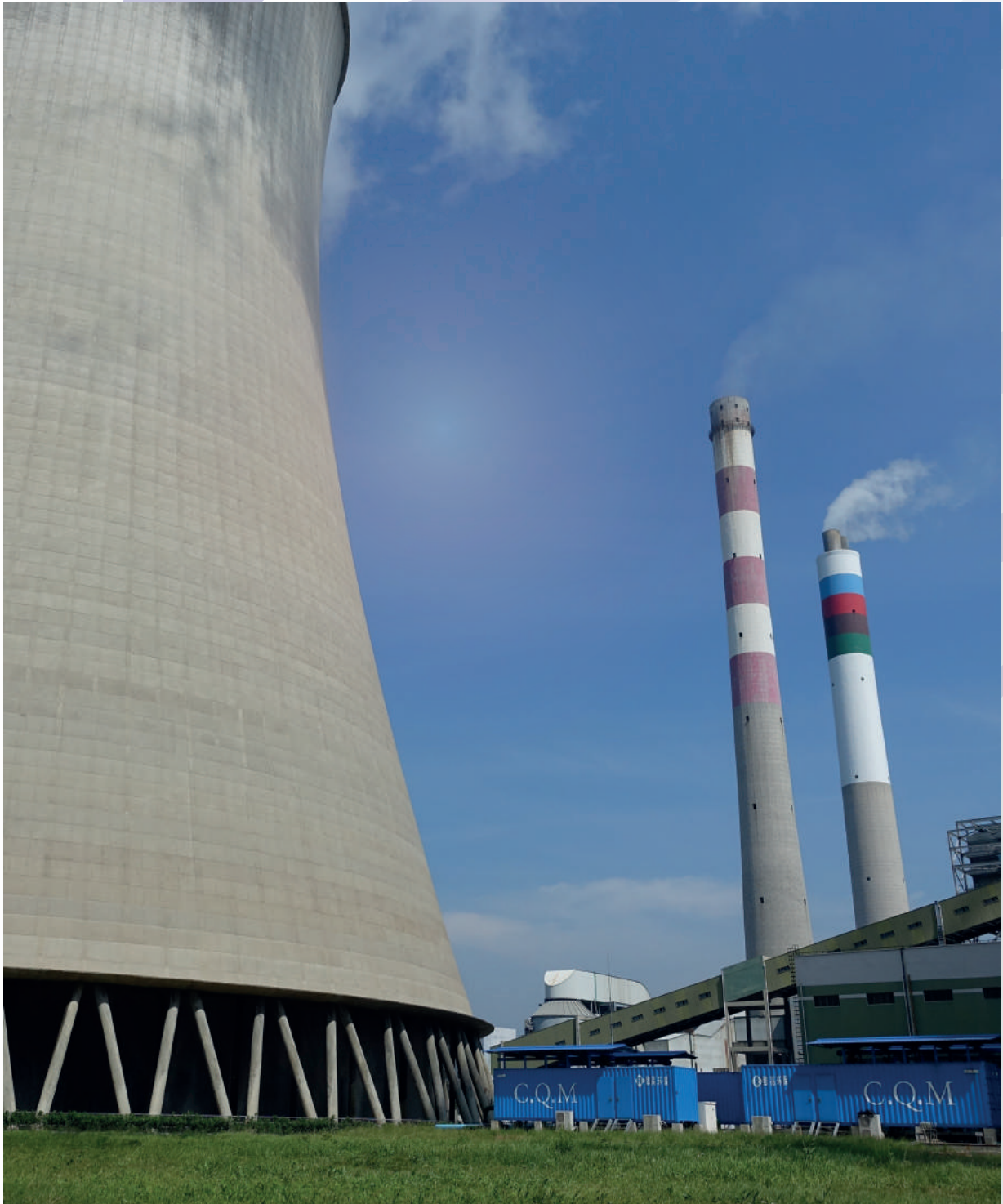


SRS

WATER TREATMENT SYSTEMS

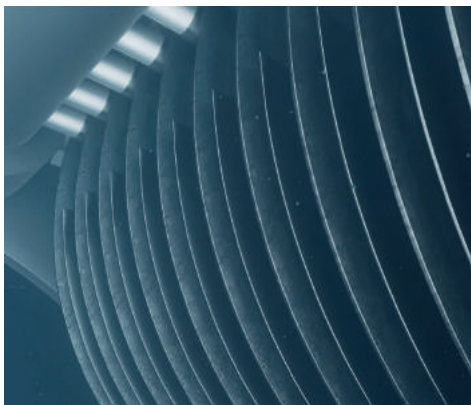


WATER TREATMENT SYSTEMS



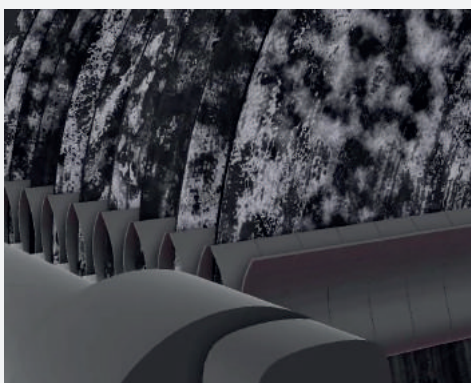
EFFECTIVE SCALE REMOVAL, MICRO AND MACRO FOULING
PREVENTION WITHOUT CHEMICAL ADDITIVES

WATER TREATMENT PROCESS



Cooling water is pumped into the reaction tank, where a series of disk shaped cathodes, or negatively charged electrodes, are placed in the reactor.

Between the cathodes, anodes, or positively charged electrodes are located. The electrolysis process creates a high pH level at the cathode inhibiting corrosion.



Existing minerals in the water stick to the disk shaped cathodes, preventing those minerals from depositing at heat transfer surfaces and other parts of the system in the form of scale. As the cathodes rotate, a blade adjacent to each cathode mechanically wipes them clean from those minerals, which are then disposed at the drain.

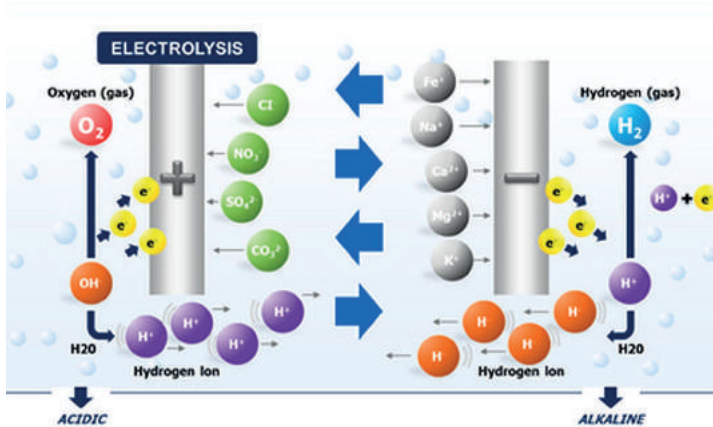
On the anode, electrolysis generates chlorine and other free radicals which eliminate bacterial growth and disinfect water, also prevent algae and mussel colonies formation, without chemical additives.



Thanks to its patented self-cleaning mechanism, the SR system is virtually maintenance free. Sludge never accumulates in the system. Polarity switching is avoided, extending the life of the electrodes. The electrodes always being kept clean, the systems performance remains the same. There is no need for stopping the system for cleaning.

The system is available at different capacities, ranging from small size chlorination systems of 50 m³/hr to large power plant cooling water treatment systems of 150,000 m³/hr.

USE OF ELECTROLYSIS INSTEAD OF CHEMICALS



When current is applied to water, salts that are dissolved in water become ionized. Chloride and other free radicals that are formed in the anode serve as a powerful disinfectant that destroys all organic matter, preventing micro and macro fouling. Calcium and magnesium ions deposit at the cathode, and are taken out of the water system preventing fouling. pH increases, inhibiting corrosion.

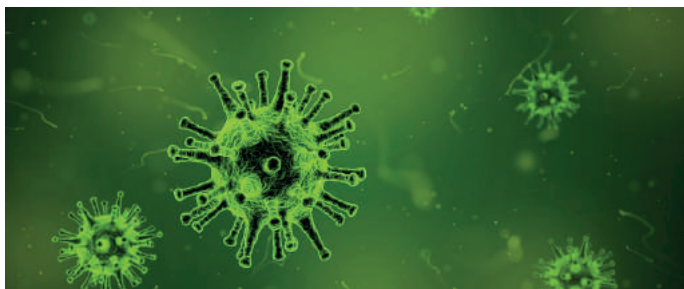
SRS FOR COOLING SYSTEMS



CQM's SRS system is used both in open and closed loop cooling systems instead of any water treatment, softener or chemicals, and maintain the proper operation of the system while preserving the equipment. It is the only system that:

- Inhibits corrosion
- Prevents and removes scale
- Kills microbial organisms
- Sustains water quality for prevention of legionella
- Conserves 50% of the drained water
- Enables the reuse of blow down water
- Boasts ROI in less than two years

SRS FOR DRINKING WATER CHLORINATION AND DISINFECTION



Chlorine and free radicals created at the system on demand act as a powerful disinfectant to replace chlorine gas or hypochlorite used for disinfection. They are an efficient tool for the last mile drinking water chlorination and waste water treatment.

In addition to totally eliminate bacteria, the SRS eradicates algae, mussels and other macro fouling at the cooling circuits using sea or surface water.

SRS FOR LEGIONELLA PREVENTION AT HOT WATER CIRCUITS



Hotels, hospitals, retirement houses and other institutions with hot water sanitary circuitry are prone to the growth of Legionella bacteria. Maintaining a very high temperature is a must in order to prevent this risk.

The SRS system allows the hot water temperature to be reduced* while totally eliminating the risk of Legionella and enabling energy savings.

**Use approved by the Israeli Ministry of Health*

INSTALLATION REFERENCES



AEM MONCALIERI ITALY



ICHILOV HOSPITAL, TEL AVIV ISRAEL



ZHEJIANG ZENEN ELECTRIC POWER CO.
FENGTAI, CHINA



TAIZHOU POWER PLANT,
TAIZHOU CHINA



ZHUJIANG POWER COMPANY



GUANGAN POWER CO LTD.

SELECTED CLIENTS



ABOUT CQM

Founded in 1994, CQM is a company based in Israel led by a multi-disciplinary team of energy and industry experts. The company develops, manufactures sells and services systems for water conditioning and water disinfection. CQM fully complies with the CE Directives, ISO 9001:2000 and Green Label Certification Standards. The company's systems are installed worldwide in industry, petrochemical plants, power plants, drinking water facilities, hotels airports, hospitals, commercial buildings and more.



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