



ELGRESSY
ENGINEERING SERVICES LTD.



S.C.P SYSTEM

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Heat Exchangers and Hot Water Systems Treatment
Elgressy Engineering Services

SCP - Heat Exchangers and Hot Water Systems Treatment

Addressing Heat Exchangers and Hot Water Systems Problems

The primary problem of heat exchangers and hot water systems is the buildup of scale, deposits of calcium or magnesium carbonate. This encourages the development of three other serious problems:

- Micro-organisms and bacteria that affect the quality of the water
- Corrosion which can damage industrial machinery, commercial and home appliances.
- Chlorine buildup.

Efficient and cost effective solutions to these problems significantly improve water quality and reduce overall operating costs.

SCP Provides the Right Solution

Two in one

The SCP (Scale Crystallization Prevention) is an electrolytic system that prevents scale deposition, reduces and removes chlorine and bacteria from the water, and substantially reduces corrosion rates.

Off the shelf system

The SCP is connected externally to the heat exchange unit and needs no complicated installation procedures or changes to your existing system. This, in itself, represents a significant saving in installation and maintenance costs.

SCP Electrolysis Process

- Electrolysis and the use of innovative, patented technology, prevents scaling.
- A combination of a constant direct current, a ternary alloy electrode and the release of trace amounts of metal ions well within WHO and EPA norms for drinking water, reduces 70% of chlorine present in the water, at temperatures as high as 860
- The SCP electrode releases metallic trace elements of Aluminum, Magnesium and Zinc; none of these metals pose a health risk.
- The metal ions retard the precipitation of CaCO_3 and induce the formation of non-adhering aragonite crystals.

SCP – One System, Multiple Benefits

Environmentally friendly

- The electrolysis process is free of harmful chemicals and harmless to the environment and humans.

Safe drinking water

- Metal ions are released in a controlled fashion and well within WHO and EPA norms for drinking water.

Saving resources

- The SCP system has low energy needs and low water consumption rates.



Prevents pipe blockage

- By eliminating scale buildup, the SCP prevents pipe blockage and potentially harmful overheating and irreversible damage.

Automatic and controlled

- The system is fully automatic and provides complete control over water quality.

Extended life span

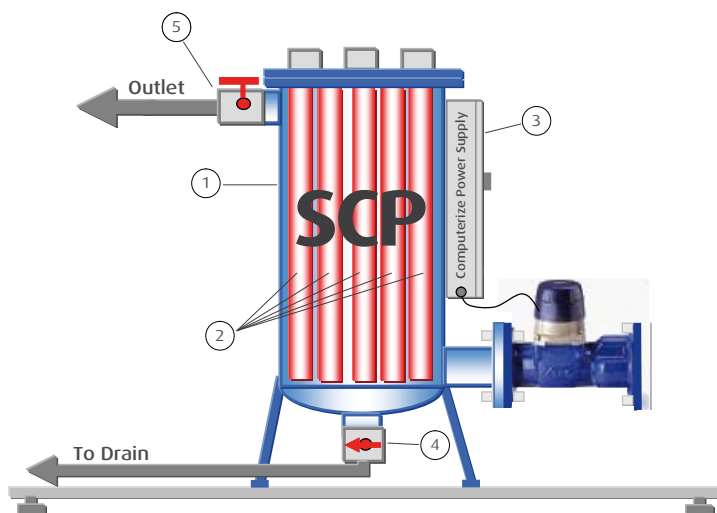
- The SCP system extends the life span of heating systems in both the industrial and private sectors.

SCP Installations (partial list)



SCP Systems

Elgressy develops and manufactures systems of differing capacities and constructs SCP systems that are designed to specifically fit the demands and needs of our clients.



1. Reaction Tank
2. Al/Zn/Mg Electrodes
3. Power Supply
4. Drain valve
5. Outlet valve

Elgressy Engineering Services

Elgressy Engineering Services Ltd. has been active in the field of water treatment for over 30 years and has a reputation for innovation, quality and service second to none.

Elgressy develops and markets comprehensive solutions and systems for the treatment and prevention of common water related problems including: scale, bacteria and corrosion. Elgressy also provides solutions for the reclamation of water with a high concentration of organic compounds and waste water and its reuse.

Elgressy maintains a team of highly skilled and experienced professionals to update and develop new systems to meet the changing needs of our clients and the more than 20,000 systems installed worldwide.



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Elgressy Engineering Services Ltd. is a subsidiary of Clean Technologies Group (CTG).

CTG is an international Cleantech company providing best-of-breed environmental solutions to industrial and municipal clients worldwide.

CTG delivers state-of-the-art solutions for water, wastewater and solid waste management.



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