



New treatment solution of closed water systems for central heating, air conditioning and support of industrial manufacturing

(09 IL 80ER 2S4O)



### Abstract

**An Israeli engineering and service company specializes and provides solutions for the industrial and agricultural sectors has designed and developed a new product for treatment of closed water systems for central heating, air conditioning and support of industrial manufacturing. The solution solves damage of scale, corrosion, and bio-life forms, to protect equipment typical to these systems include pumps, faucets and devices such regulating valves. The company seeks a partner for cooperation**

### Description

An Israeli SME has developed a technology which enables water treatment by engineering means while generating substantial financial savings for the user and recycling of water, without environmental nuisances and without the use of chemicals. The product is designed for treatment of closed water systems for air conditioning, central heating and support of industrial manufacturing. The system uses water for both heating and cooling.

The new design based of water flows from a central water system into the new developed facility, where a natural reaction of controlled generation of scale and corrosion compounds takes place. The treated water returns "clean" to the water systems without the potential of scale deposit in the water system. The scale accumulated in the "Green Machine" is removed, enabling continuous and efficient water treatment.

The core based on an algorithm in the field of chemical engineering for the production of a process unit composed of a reactor and "green" residues this technology prevents the water to expose to chemicals at all and does not cause the production of toxic or prohibited waste. The process unit is tailored to any customer specifications.

The technology is a complete techno-economic substitute for existing technologies, including

chemical additives, acids, flocculants, water improvement systems such as softeners, reverse osmosis (RO) systems, etc. The technology is implemented in the biological life forms, for the protection of equipment typical to these systems, including chillers, pumps, faucets, extruders, molds, injections, and jackets for chemical reactors

### Innovations and advantages of the offer

Innovative aspects

- Implemented in the industrial, commercial, civilian and agricultural sectors
- Solves problems of scale,
- preventing of corrosion damage,
- doesn't allow problems of Biological life forms,
- protecting of equipment typically in water treatment systems

Main advantages

- Complete techno-economic substitute for existing technologies.
- Able to implements in any industrial and agricultural sectors
- The process unit is able to tailor to any customers specifications

### Current and Potential Domain of Application

treatment of closed water systems for air conditioning, central heating and support of industrial manufacturing, commercial, civilian, agricultural sectors and solves problems of scale, corrosion,



INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT

Technology Offer

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