



DESCALING & SCALING PREVENTION SYSTEM

HOW DOES **TECMAX** WORKS

- The **TECMAX** adopts a combination of special catalysts to form the baffle plates, which enables a change in the electrostatic potential of the water, inhibiting the binding forces between the particles in the water.
- The dissolved mineral, like CaCO_3 , Mg_2CO_3 , are kept separated and suspended in the water, preventing precipitation due to the inter-molecular deboning action. These suspending solids do not form any scales.
- The destructive effect of the catalytic technology make the already formed scale to disintegrate. The SiO_2 , Al_2O_3 , which are the bonding binders for the scales, detach from the scale lattice, releasing the Ca^+ and Mg^+ to the water. This gradually destroy the scale already deposited on the surface.



Before using



After using



Sizes

Straight Type	Reducing Type
2"x 2"	2"x 3"
3"x 3"	2.5"x 3"
4"x 4"	3"x 4"
6"x 6"	4"x 6"
8"x 8"	4"x 8"
10"x 10"	6"x 8"
12"x 12"	6"x 10"
14"x 14"	8"x 10"
16"x 16"	8"x 12"
18"x 18"	10"x 12"
20"x 20"	10"x 14"
24"x 24"	Over 10"

WHERE TO USE **TECMAX** ONBOARD SHIPS

- Central cooling system on fresh water side (LT circuit)
- Boiler feed water
- Steam condenser
- M/E jacket water cooling system (HT circuit)

Extremely effective on fresh water with high mineral content

WHY USE **TEC**MAX

- Non-magnetic, not affected by magnetic field, noise and other factors, no special requirements for the installation location
- Non-power, work without external power supply, suitable in explosion-proof areas
- No chemical substances, TECMAX technology has no chemical pollution to the treated fluid. It is beneficial to reduce or eliminate pollution.
- Max. temperature up to 700°C.
- No electrical components, no moving mechanical parts, easy installation and maintenance, Not affected by hot work after installation.
- TECMAX catalysts are non-sacrificing during the process, more than 10 year lifetime.
- The effective distance of up to 10km.
- Max. working pressure: 2.5MPa.
- Descaling & scaling prevention of Si^+ 、 Mg^+ 、 Ca^+ 、 Sr^+ 、 Ba^+ crystalline scale and other scale layers.



KEY BENEFITS

- Improve heat exchange efficiency by eliminating negative effects of scale on heat exchange surface.
- Improve temperature control in M/E cooling area to reduce wear and tear of the key components.
- Install and forget solution, no maintenance. no power consumption, only schedule cleaning of the internal plates to remove dirt and particles.
- Eliminate the use of chemical which are not environmental friendly.
- Improve boiler efficiency and reduce maintenance and cleaning.
- Minimize corrosion in the piping and the heat exchanger

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