

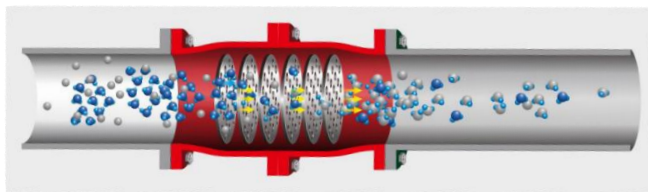
ALT LT3F IN-LINE HEAT EXCHANGER SCALE GUARD (COLD/HOT WATER)

ALT LT3F-JT IN-LINE COMPRESSOR SCALE GUARD (OIL)

ALT LT3F-J CLUDE OIL PIPE SCALE & WAX GUARD (OIL)

WHY IS TRULY GREEN?

ALT LT3F IN-LINE INHIBITOR SCALE GUARD "One-and-For-All Inhibition Solution" is the most recent patented scale inhibition technology. The LT3F multi-hole alloy core disc acts as a special type of catalyst, modifying the electrolyte and ion activation, thereby changing the physical and chemical conditions of the bonding between various substances and ions in the fluid. Proven to effectively inhibit the formation of wax, scale, algae, fouling, and corrosion, as well as gradually dissolve and remove old hard scale and fouling that has crystallized and deposited on the pipe wall.



No Power



No Magnet



No Chemical

Maintenance Free, >10 years
Efficacy Lifetime



PRODUCT FEATURES:

- Prevent forming of Water scale & Wax in the pipes & RO Filter Membrane
- Softening and ablation of existing Carbon deposition, Wax, Scale, and Rush.
- Prevent and mitigate corrosion of the Heat Exchanger Water Circulation system
- Reduce the deposition of solid particles into the pipe network.
- Inhibit bacteria & algae growth and prevent new bacteria & algae propagation.
- Prolong Compressor Oil quality & increase compressor oil usable time.



ADVANTAGES:

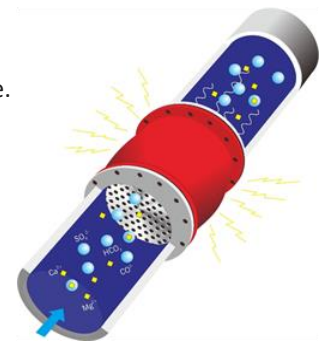
- No magnetic, No electricity, No adding any chemical agent
- No temperature, No pressure, No magnetic field, and No installation environment restrictions
- Safe operation & environmentally friendly solution.
- Particularly suitable to install at a high place, underground, outdoors, and..etc Industrial pipe network area. Area which is usually hard for Field Service Personal to install & operate.
- Flange interface, simple installation. Once installed, Maintenance-free & Consistent performance.
- Shorten equipment and facilities maintenance downtime.

BENEFITS:

- Halt new scales & foulds forming, and old scale gradually dissolve & ablate off, or loose.
- Significantly reduced rush & corrosion, thereby reducing safety risks.
- Energy consumption gradually decreases until a steady state.
- Equipment Cooling, and heat dissipation efficiency significantly improved.
- Extend the Cycle of Concentrate (CoC) from 3 to 10 times; Saving water >45%
- Recycled water discharge meets International environmental protection standards.

APPLICATIONS:

- Industrial Heat exchanger & Condenser, reboiler, RO Filtration System
- HVAC Cooling Water Treatment, Heat exchanger cleaning & District Chiller water treatment
- Oilfield oil piping & downhole equipment Wax, Scale Inhibition
- Air compressor heat exchanger, Lubrication oil & oxygen generator anti-scale, oxidation & carbon deposition.

























For Inquiry:

Tel : +6 03 78046186 Fax: +6 03 78044186 Mobile : +6 0192184186

Email: exceltest@excelonez.net Web: www.exceltest.com.my

Comparison of Water Treatment Solution

	ALT Truly Green Chemical-Electric- Magnet-Maintenance Free Solution	Others Chemical-Free System	Conventional Chemical System
Theory	Patented Alloy Electro-Chemistry Catalyst Method	1. Magnetic Effect method 2. Variable frequency Magnetic Field Effect Method 3. Electrolysis Method 4. Deionized Method 5. Ultrasonics Method	Ion Exchange
Problems	<p style="text-align: center;"></p> <p style="text-align: center;"><u>Advantages</u></p> <ul style="list-style-type: none"> ✓ 3 km Effective distance ✓ 1000mg/l Fluid hardness ✓ 10-year Operation lifetime ✓ 90°C Fluid Temperature 	<ol style="list-style-type: none"> 1. The magnetic field effect decreases over time over distance. 2. Magnetic field strength fields reduce by large pipe size. 3. Ultrasonic wave short travelling distance. 4. Rapid flow rate reduces the effectiveness. 5. Deionized method introduces salts induce secondary pollution. 	<ol style="list-style-type: none"> 1. Secondary water pollution. 2. Additional cost to treat wastewater. 3. Increase corrosion to equipment, if lost control 4. High cost to maintain & refill chemical and water analysis.
Installation	Inline type. No power	External/Internal Pipes. Need electrical devices & electronic control, Except Permanent Magnet type	Difficult Need a lot of electrical devices & electronic control
Installation Restriction	No Restriction Indoor, Outdoor, At Height	Indoor & avoid high temperature, Sun Light & Rain location	Indoor & avoid Sun Light & Rain location
Features	Prevent & Remove Scale, Prevent fouling, wax, algae & bacterial	Prevent Scale & Remove Scale	Prevent Scale, not able to remove
Corrosion & Rush	Prevent & Repair	Prevent	Limited
Maintenance Free			
Chemical Free			
Power Free			
Schedule Chemical Cleaning			
Schedule Service, calibration & parts change		 Maintain by a well-trained person	 Monthly maintenance
Total Clean Cooling Network Devices			
Truly Green & Green Technology		 Need power & non-recyclable replacement part.	
Water Savings	Enable 10 times CoC	Enable 4 ~ 6 times CoC	3 times CoC
Energy Savings	Very Good	Intermediate	Good
Quality Guarantee	> 5-year	≤ 2-year	≤ 2-year

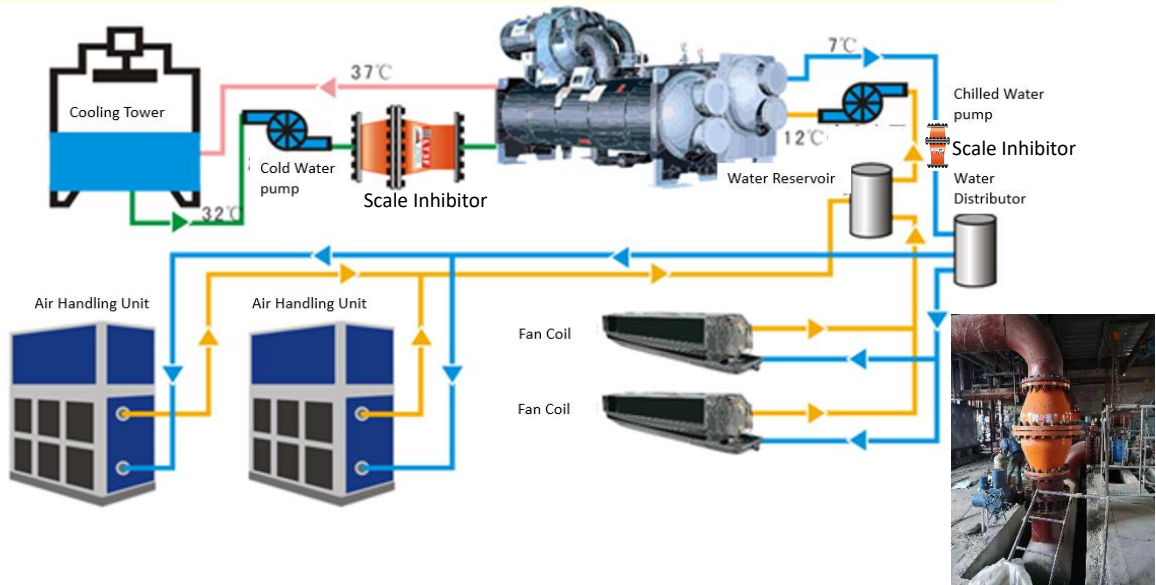
*CoC Cycle of Concentration (10 -> 45% saving). Water & Energy savings is dependent on existing system conditions.

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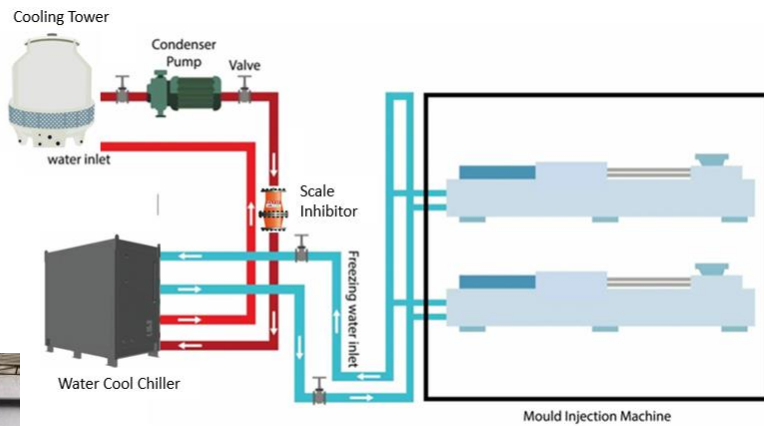
Centralized Air Condition Cooling Water Treatment Solution



Plastic Mold Injection Machine:

Water Chiller & Machine Piping Protection

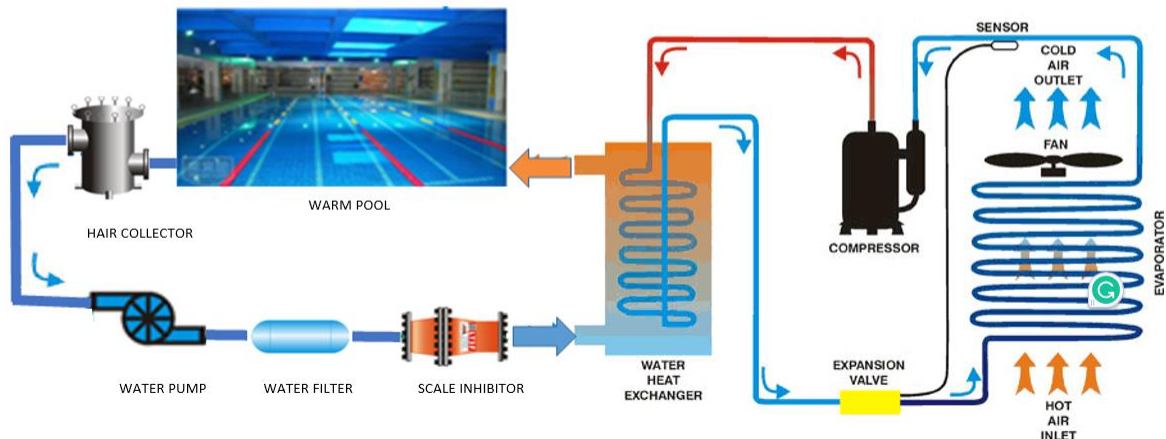
Cost savings from preventing scale and removing old scale; increased equipment lifespan.



Warm Water Swimming Pool System:

Heat Exchanger Protection

Cost savings from preventing scale and removing old scale; increased equipment operation life.



For inquiry:

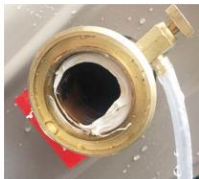
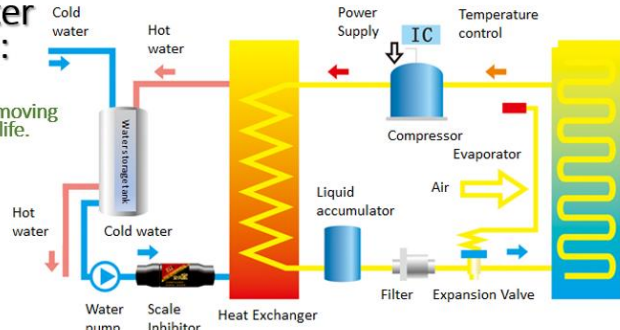
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Heat Pump Water Heater & Air Condition System:

Heat Exchanger Protection

Cost savings from preventing scale and removing old scale; increased equipment operation life.



Before Install

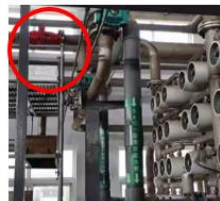
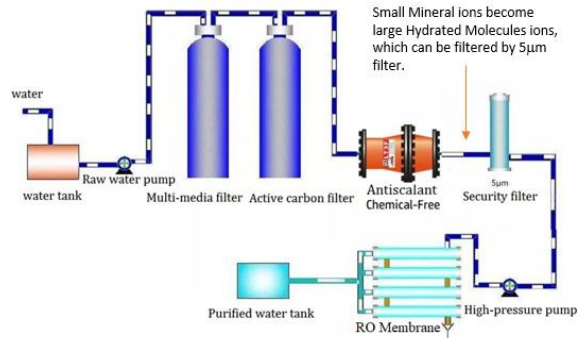


After 1 month



RO Water Purification System: RO Membrane Protection

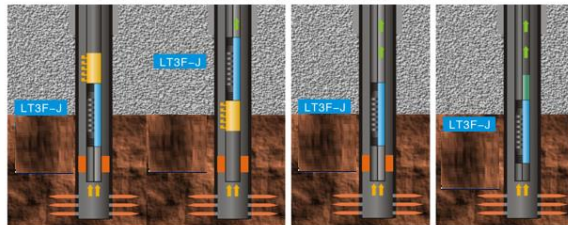
Cost Savings by Extending the Life of the RO Membrane



LT3-J Electrical Pump Anti-Wax Device



LT3-J Downhole Well Anti-Wax Device



Crude Oil Transfer & Production: Oil piping Scale & Wax Protection

Cost Savings by Extending the Piping Cleaning Period.

