

D'SCALING :

Magna Chemicals, Singapore products

- * Chemicals Safe on Metals, Paint, Plastic & Rubber
- * Acts only on Rust, Scales & Oxides
- * In plant Boil / Fire Safe,
- * Heating Speeds D'scaling
- * No overpowering fumes
- * No change in chemical bath colour,
- * Wide Range in Acidic / Alkaline since All scales are not same
- * Mechanical Tube cleaning, clean tube from any one side

MECHANICAL

TUBE CLEANER :

Cleans out instantly, pipes from any kind of blockages in pipes. Nozzles is self-propelled through the pipes when connected with water jet pressu



CAUTION

Why to use unknown products and harm your costly imported equipments? It is better to be safe, rather than to replace, parts, tubes, gas, costly down time. BE WISE, PROTECT YOUR INVESTMENT & WORK EFFICIENTLY

Cleaning Accessories : Professional High Pressure Pumps :

Professional Models

Vs

Hobby - Cheap Models

- * Multiple Function related to HVAC
- * Wide Range of heavy duty models
- * Saves Water & Chemicals
- * User Friendly-works in 'tight' areas
- * Easy To carry around in shoulder bags
- * Pressure Gauge, Pressure adjustment
- * Built in detergent suction / Detergent tank
- * Automatic bye-pass valve
- * Motor Thermal Protector

General purpose cleaner
1-2 variety
Very Basic functions covered
Long Gun & un-conventional models
Requires huge space

NA
NA
NA
NA

- * Deep Coil Cleaning
- * Condenser Tube cleaning
- * Hard Surface Cleaning
- * Drain Pipe cleaning
- * Continuous working
- * Ceramic Pistons for heavy duty pumps



D'SCALING : WORK SAFE, Protect your Investment

If you can afford to have an costly HVAC system, why not to have specialised cleaning & Maintenance chemicals? Which are Metal Safe, Non-Toxic and at the same time they are ECONOMICAL as compare to any other products? **Magna Chemicals, Singapore** products are not only SAFE & of International quality, but also approved by US Military & NATO organisations, used by their allies all over the world.

They do not attack Metals, Paints, Plastic, Rubber. They act only on Rust, Scales, Oxides only. All scales are not same, they require Acid/Alkaline widest range.

Magna products in **Acidic Range** : Magna 112, Magna 114, Magna Red with colour strength indicator **Alkaline Range** : Magna 500, Magna 106 which is an substitute for Caustic & boil safe too.

The Chemical bath remains totally clear during circulations of 6-8 hrs, which proves that the chemicals are acting only on scales, which can be removed later on by brushing Mechanical D'scaling : Ecochem has range of products to choose for mechanical d'scaling. Light build up can be cleaned with Mr. Clean / VIP & accessories. Medium to heavy buildup can be cleaned with Portable / Rotary tube cleaners.

Note : All scales are NOT same, Magna range dissolves them ALL

ACIDIC RANGE

Magna 112 Rust Remover & Metal Conditioner

It is a **PHOSPHORIC ACID** based colourless free flowing compound. It dissolves rust, scale and oxide deposits. It can be used on carbon, galvanized and aluminized steels. It is Biodegradeable, confirm to US MIL standards.

Magna 114 Rust Remover : HCl based

It is a powerful rust, stain and scale remover. It removes rust and scale easily from boiler covers, water and steam meters, outdoor storage tanks, stationary parts or other metal equipment. It dissolves corrosion and leave the exposed surface perfectly clean for repainting or re-treating.

Magna Red : Streight - Colour Indicative type.

Magna Red is a powdered scale remover designed for use in boilers, diesel water cooling systems, butterworth heaters, condensers and other heat exchangers. Magna Red does not attack metals and actually reduces metal corrosion.

ALKALINE RANGE

Magna 500 Coil Cleaner

Highly concentrated for the cleaning of air conditioning equipment such as coils, fins, drip pan, etc. Its strong penetrating emulsifiers do not damage aluminium, zinc and other metal surfaces. It removes all grease accumulation, **scales** and impurities effectively even without agitation or scrubbing.

Magna 106 Alkaline Degreaser

It is a powerful liquid degreaser that avoids most of the risks common to powerful cleaners, and with anti-corrosion properties. It is non-explosive, and unlike petroleum, it can be heated without danger. It is free from fire risk and does not emit overpowering fumes.

Magna 100 Hard Surface Cleaner

It is an alkaline-type detergent that emulsifies, absorbs and floats away the toughest of greases and oils. It penetrates gums and dyes. It is a highly effective hard surface cleaner that contains inhibitors to prevent corrosion on aluminium and ferrous surfaces.

Tube Cleaning : Tube cleaning job is easily made to simple ONE person operation, in small to large tube bundle machines, for chillers, condenser, evaporators, absorption machines & heat exchangers with mechanical & water washers for simultaneous water flushing to remove deposits.

(Merind : Vam Chiller cleaned in 5 hrs. x 2men Vs 18 hrs. x 6 men)

Pipe Cleaner Hose : This Drain/Pipe Cleaner consists of a hose with a quick disconnect, and nozzle which is sized to the hi-pressure washer. They are used for clearing blockages in pipes 15-150mm I.D. Nozzle, which is screwed on to the end of the hose, has one 0° pinpoint jet and several 45° propelling jets. When the assembly is connected to a Hi-Pressure Washer, the nozzle is self-propelled through pipes and ordinary drain systems.



MAGNA D'SCALING	Vs	Other products & Services
1) International Standard		Unknown Standard
2) Ecofriendly + Efficient + Economical		None
3) Safe on : Metals, Paint, Plastic, Rubber		Highly Corrosive
4) Acts only one Scales, Rust, Oxides.		Unsafe & Corrosive
5) High dilution ratio		Low dilution
6) Widest Range in Acid, Alkali,		No Choice
7) Does not attack Copper, Steel, etc.		Unsafe
8) NATO Codified		Not approved
9) Gives value addition		—
10) Combination of Mechanical & Chemical Possible. Minimum Space & Labour		Highly Space & Labour oriented

How Fouling Factors Affect Chiller Performance

In a 400-ton chiller, operating 500 hr/yr @ 50% average load with power cost \$0.06. kWhr, the fouling factors affect performance as follows :

Fouling Factor	% of Efficiency	Money Wasted	% of Electrical Power Required Above Clean Tube Condition
.0005	100%	\$0	0%
.0015	94%	\$3,920	11%
.0025	80%	\$7,840	22%
.0036	58%	\$11,760	33%
.0045	36%	\$16,520	44%

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