



## HOW TO CLEAN

# Cooling Towers

## with CLR PRO MAX™ Industrial Descaler (ID)



1. Wear goggles and protective gear.
2. Isolate the equipment from the freshwater supply.
3. Attach pump and hose to the bottom (supply) valve and back out the top (return) valves where the CLR PRO MAX™ ID can be flushed continuously.
4. Determine the appropriate amount of CLR PRO MAX™ ID needed for the system. Refer to Cooling Tower operation manual. This may require calculating the approximate liquid volume the unit will hold.\* The recommended dilution is a 50% ratio CLR PRO MAX™ ID to water. Depending on the amount of scale present, a stronger solution can be used, OR the flush time increased and/or repeated.
5. The effectiveness of the solution can be checked periodically with a pH meter. Should the circulation solution rise above the pH level of 5.5 before the flush time expires, additional CLR PRO MAX™ ID needs to be added, and the cycle time may need extending.
6. Where possible, raising the water temperature, 5-10 degrees, will provide improved descaling performance.
7. Upon completion of the flush, the effluent can be purged, and a freshwater flush should be performed before the system can be reattached and brought back online.
8. Dispose of spent solution per state or local regulations.

### BEFORE USE

See SDS for precautionary instructions– available at [www.clrpro.com](http://www.clrpro.com).

Use appropriate safety equipment and job site controls during application, handling, and disposing.

Do not mix or use with bleach or chlorine based products as hazardous vapors may result.

**FOR INDUSTRIAL USE ONLY – NOT FOR HOUSEHOLD USE**

RECOMMENDED DILUTION CHART		CYCLE TIME† (Minutes)
Some visible scale	1 Part CLR PRO MAX™ ID : 5 Part Water	30-60
Medium levels of scale	1 Part CLR PRO MAX™ ID : 3 Part Water	50-100
Heavy scale build up	1 Part CLR PRO MAX™ ID : 1 Part Water	60-180

### FREQUENCY RECOMMENDATIONS

Frequency will depend on the water hardness and scale build-up rate.

We recommend descaling at least once every three months.

If the water hardness is 5 grains per gallon or higher, we recommend descaling at least once per month.

† Or until pH value is 5.5 or greater.



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### DOSAGE GUIDELINES FOR COOLING TOWERS

Machine Cooling Capacity Tonnage	Gallons of CLR PRO MAX™ ID
10	2
25	5
50	10
75	15
100	20
150	25
200	30
250	50
500	100
1000	200

*1 Gallon of CLR PRO MAX™ ID for every 5 Tons of Cooling Capacity*