



Noble Earth Technologies

## De-scale Drench

**CAUTION - POISON**  
**KEEP OUT OF REACH OF CHILDREN**  
CONTAINS 25% HYDROCHLORIC ACID



### BOILER APPLICATION

1. Drain boiler system. THIS IS ESSENTIAL.
2. Flush boiler and its system thoroughly with water.
3. Fill boiler to operating level.
4. Initially, add 1 part of Noble Earth Technologies 'De-scale Drench' for each 10 parts of water.
5. Raise temperature of boiler water to 50°C. Do NOT exceed 60°C. OPEN MAN-HOLES and HAND-HOLES to vent gases generated by de-scaling process.
6. Maintain pH at 1.5 to 2.0 for 4 to 6 hours. Add additional Noble Earth Technologies 'De-scale Drench' as needed to maintain at 1.5 to 2.0.
7. Drain system and flush thoroughly.
8. Flush boiler with fresh water until the colour of the pH paper dipped in rinse water shows the same colour as a second of pH paper dipped in tap water.
9. IF SCALE IS STILL PRESENT, REPEAT THE ABOVE PROCEDURES.
10. Add proper water treatment as required to protect boiler against future development of scale or corrosion.

### CONDENSER SYSTEM APPLICATION

1. Drain all treatment from entire system. THIS IS ESSENTIAL.
2. Flush with fresh water.
3. Fill tower to operating level and begin operating system.
4. Initially, add 1 part Noble Earth Technologies 'De-scale Drench' for each 10 parts of water in system.
5. Circulate tower water for 15 minutes.
6. Check pH of tower water.
7. If pH is above 2.0, add more de-scalant to lower the pH to the 1.5 to 2.0 ranges.
8. Maintain pH of tower water in the 1.5 to 2.0 ranges for 4 to 6 hours by further additions of Noble Earth Technologies 'De-scale Drench'.
9. Drain and flush lower system very thoroughly.
10. Drain and flush until the colour of the pH paper dipped in the rinse water shows the same colour as a second strip of pH paper dipped in tap water. IF SCALE IS STILL PRESENT, REPEAT THE ENTIRE PROCEDURE.
11. Refill system and add proper amount of water treatment to protect system against corrosion and scale.

It must be understood that the removal of scale and/or corrosion products may uncover perforations in the system lines resulting in leakage; therefore, no liability can be assumed. For further application details and technical information and uses please consult with the Noble Earth Technologies technical department.

**SAFETY DIRECTIONS:** Caution should be taken. Avoid contact with skin and eyes.

**FIRST AID:** If poisoning occurs contact a Poisons Information Centre (phone 13 11 26 from anywhere in Australia) or a doctor. If swallowed, do NOT induce vomiting. Give a glass of water. If skin contact occurs remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Noble Earth Technologies · PO BOX 1733 Double Bay NSW 1360**  
**Telephone 029316 8800 · [harry@nobleearth.com.au](mailto:harry@nobleearth.com.au) · [www.nobleearth.com.au](http://www.nobleearth.com.au)**