DELTA T ONLINE DESCALER PUMPING PROCEDURES

FOR USE WITH ALL SIZE MARINE HEAT EXCHANGERS with TITANIUM PLATES

- 1. SHUT INLET & OUTLET VALVES TO HEX
- 2. DRAIN OPERATING PRODUCT FROM HEX
- 3. FLUSH WITH FRESH WATER (IF NECESSARY)
- 4. HOOK PUMP SYSTEM TO HEX. INLET TO BOTTOM, RETURN FROM TOP
- 5. FILL HEADER TANK WITH A DILUTION RATE OF <u>50/50</u> ONLINE DESCALER / POTABLE WATER
- 6. START PUMP & REFILL HEADER TANK. CONTINUE UNTIL RETURN TO TANK IS COMPLETED & CONTINUOUS CIRCULATION IS ACHIEVED
- 7. SLIGHTLY RESTRICT RETURN WITH BALL VALVE ON TANK RETURN. "SQUEEZE OUT" GASSES TO ENSURE HEX IS COMPLETELY FULL
- 8. CIRCULATE 4-6HOURS
- 9. TEST PRODUCT AT REGULAR INTERVALS WITH SHELL GRIT OR LIME IN SMALL CUP. "LIVE" PRODUCT WILL FIZZ
- 10. IF PRODUCT IS "DEAD" AFTER 4 HOURS, DRAIN A PORTION OF SOLUTION FROM THE SYSTEM & ADD REPLACE WITH RAW ONLINE DESCALER
- 11. 3.79 LITRES OF DELTA T ONLINE WILL REACT WITH APPROX. 1 KILO OF SCALE. PRODUCT WILL THEN BE SPENT.
- 12. WHEN COMPLETE, DRAIN DOWN HEX AND FLUSH WITH WATER. SPENT PRODUCT WILL REQUIRE NEUTRALISATION WITH SODIUM BICARBONATE TO ACHIEVE A pH of 6 8 AND CAN BE DISPOSED OF VIA LOCAL REGULATIONS

NB IT IS RECOMMENDED THAT DESCALING PROCEDURES ARE CONDUCTED WITH DELTA T PURPOSE BUILT PUMP SKIDS CONNECTED DIRECTLY TO THE HEAT EXCHANGER.