

THE NAKED SYSTEM - STRIPPED OFF:

The Naked System has been designed to be SIMPLE....behind the scenes can be complex so below are some notes to help you better understand how this is achieved.

Each unit can handle 10,000-150,000L of water for domestic installations and is customised to the pool by entering the volume on start-up

Maximum TDS levels when retro fitting - 3000ppm (if over please advise to dilute the water)

OXI OUT (●) - the dot represents when the OXI is producing. E.g. if TDS levels are 800ppm the dot will be on 100% of the time. If the TDS are 1600ppm the dot will be flashing on and off 50% of the time limiting the output in order to maintain production of 15g/hr (current limiting)

OXI OUT: 100% (●) - this also represents the conductivity of the water and should always remain on 100% unless in winter mode or a blanket is on the pool and the output needs to be reduced. If the OXI SET is 100% and the OXI OUT is less than 100% this indicates that the TDS of the water has dropped. E.g. OXI SET: 100% OXI OUT: 50% (the TDS would be approx.. 400-500ppm and salt would need to be added to achieve 100%.

ION SET (●) - this dot represents when the ION is producing. 20% is the default setting and works in 10min increments. At 20% the dot will be on for 2mins and off for 8mins, 50% = on for 5mins off for 5mins etc

PROTECTION OF COPPER OUTPUT:

- the Ioniser ONLY operates during Timer 1 (T1). If times are extended within T1 it will automatically switch off based on the volume of water entered. E.g. 40,000L will ONLY operate ION for 4 hours a day
- the Ioniser output will automatically drop by 50% from its current setting if the temperature drops below 20 degrees
- the output is controlled by constant current meaning if TDS levels increase the output remains the same and constant
- if OXI is pressed the ION will still only run per day based on pool size entered
- when using external controllers the Ioniser will reset every 24 hours at midnight and will always switch off depending on pool size entered

REBOOTING THE UNIT:

Switch the unit off at the wall

Hold the [+] button and turn back on

Press [OK]

Press [+] to F18 EXIT FACTORY SET

Press [OK]

Option 1: Press [POWER]CustomerStart – saves any changes made in Factory Setting (F1-F16) other than default values

Option 2: Hold Left and Right Arrows [<>] INITIAL DEFAULT - used to totally wipe all memory and start fresh. Any run hours will always remain saved

Option 3: Press [OK] LEAVE – used if initial start-up has been completed will return to the DDS screen

INITIAL START-UP:

FAULT: Check ION Rods – TAKE NOTE this has now been changed on all units sold May 2019 and onwards to read

LOW TDS– SEE MANUAL OR CHECK ION RODS

This may appear when first starting the unit as the TDS in the water has not fully dissolved and the conductivity level is too low. Once properly saturated the message will disappear and the unit will resume normal operation.

TIMERS: - DUAL CYCLE (T2) is the default after initial start-up has completed

T1 = Single Cycle Timer - the system will run once a day and the OXI OUT, ION SET and Pump will operate.

T2 = Dual Cycle Timer - the system will run twice a day. In the first timer of the day the OXI OUT, ION SET and Pump will operate. In the second timer of the day the Pump will operate and in the last hour the OXI OUT will also operate.

How timers are set automatically based on volume of water entered:

NOTE POOL SIZES 10-50,000L HAVE CHANGED TO ENSURE ADEQUATE SANITISATION/ CIRCULATION

- 10,000-30,000L - T1= 08:00 to 11:00 = 3hrs + T2= 3hrs TOTAL = 6hrs
 - 31,000-50,000L - T1= 08:00 to 13:00 = 5 hrs + T2= 2hrs TOTAL = 7hrs
 - 51-150,000L - T1 increases from 5hrs + 1 hour per 10k litres + T2 will always be 2 hours.
- e.g 60,000L - T1= 08:00 to 14:00 = 6 hrs + T2= 2hrs TOTAL = 8hrs
 70,000L - T1= 08:00 to 15:00 = 7 hrs + T2= 2hrs TOTAL = 9hrs

OXI BUTTON:

Default 24 hours run time and will return to AUTO when completed and can be reduced by pressing [-] to desired time. This feature is particularly handy for high bather loads when you want to run the pump for longer hours (i.e. maybe with a variable speed pump or you want additional filtration). OXI levels may need to be decreased.

WINTER MODE:

All pool environments vary depending on the location. Pools with high debris (leaves and dust) may have to run OXI levels higher to ensure the removal of any organic materials. Extra pump run times may also be needed to achieve adequate filtration.

WATER FLOW FAULT:

- this displays when the sensor on the cell is exposed
- default is 3mins and will switch OFF the pump and attempt to draw water 3 times
- if no water is drawn the unit will remain OFF and at the next ON/OFF time of the timer the unit will turn ON again and restart the process

WATER TEMP LOW:

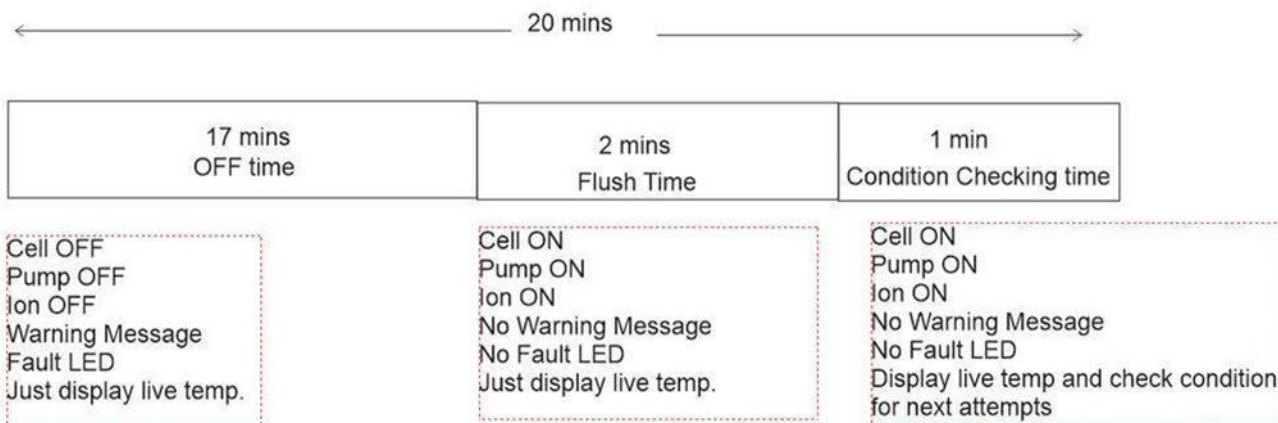
- this displays when the temperature is 9.9 degrees or less
- OXI OUT will automatically drop to 10% to protect the OXI plates in cold water
- if temperature increases past 10 degrees this will revert to previous setting automatically

WATER TEMP HIGH:

- this displays when the temperature is between 40-45 degrees – operation remains normal
- when temperature increases past 45 degrees the unit will follow as per the below - WATER TEMP HIGH FAST

WATER TEMP HIGH FAST:

- this displays when the temperature rises by 10 degrees or more in less than 2mins
- the unit will go into a cycle of 20mins checking the temperature as per the below



EXTERNAL CONTROLLERS:

The Naked System is compatible with any external pool control system and will slave to the controller allowing it to switch the unit ON and OFF.

There are 2 ways of making this work:

1. Duplicate the timer settings from the Naked System automatically configured from when the pool size was entered and enter these into the external controller.

TAKE NOTE: When doing this T2 ON TIME must be adjusted to the same as T1 OFF TIME and T2 OFF TIME must be adjusted to the same as T1 ON TIME (see example below)

50,000L

T1 ON TIME 08:00 T1 OFF TIME 13:00

T2 ON TIME 13:00 T2 OFF TIME 08:00

Switching ON and OFF of the unit can now be entered into the timer settings of the external controller.

2. Change all timers in the Naked System to 0:00

TAKE NOTE: When setting up this way the OXI will always be producing whilst running so may have to be adjusted down to stop chlorine levels increasing.

USING EITHER OF THE ABOVE WAYS THE IONISER WILL ALWAYS SWITCH OFF BASED ON THE VOLUME OF WATER ENTERED SO COPPER LEVELS WILL NOT INCREASE.