NKD-MU Freshwater System

USER GUIDE

Naked
Freshwater Pool Systems

Download the App

- Detailed help information at your fingertips
- Register warranty directly via the App
- Pool Volume Calculator
- Water Balance Calculator
- Submit Support Tickets
- Notifications to help manage your pool

SCAN QR CODE TO GET THE NAKED APP

Visit our warranty information page at:
www.naked-pools.com/warranty

Congratulations on getting Naked!

Your Naked Freshwater System is designed for environmentally sustainable pool management, offering low-maintenance operation compared to traditional chlorine or saltwater pools. This hybrid system uses copper and silver ionization alongside oxidation processes to support water quality and appearance.

The Naked Pools pH Controller is the perfect compliment to your new system and will dose acid into the pool on a daily basis, making maintenance far simpler.

Please take the time to review this entire guide and download the Naked App to ensure you have the best experience in using and managing your pool and spa.

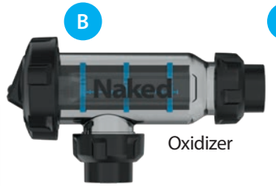
HANDOVER EXPERIENCE

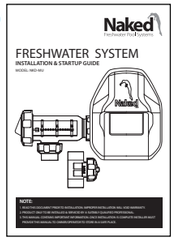
If you've never owned a pool before it can be daunting when the builder does the final 'handover' to you. Everything about your pool will be explained with a lot of information to take in. Don't panic! You will come to understand with time how to maintain your pool and often a pool surface and water will need a few weeks to fully settle. Your pool water will then be more stable and ongoing maintenance will become a simple process.

Please remember that your Naked Freshwater System is not designed to chemically maintain your pool water and keep it balanced. We encourage regular water and copper testing, balancing and correction if and when required to maintain the recommended balanced levels of your pool water. This is a vital part of a complete maintenance program and will ensure a trouble-free freshwater pool.

What's in the box?

- **A** NKD-MU Freshwater Control Unit
- **B** Oxidizer Housing with Unions
- **C** Ionizer Housing
- **D** Optional NKD-pHU Controller
- **E** Naked 3-in-1 Test Kit
- **F** Water Test Bottle
  (for use when visiting a pool shop)
- **G** Installation & Startup Guide
- **H** User Guide



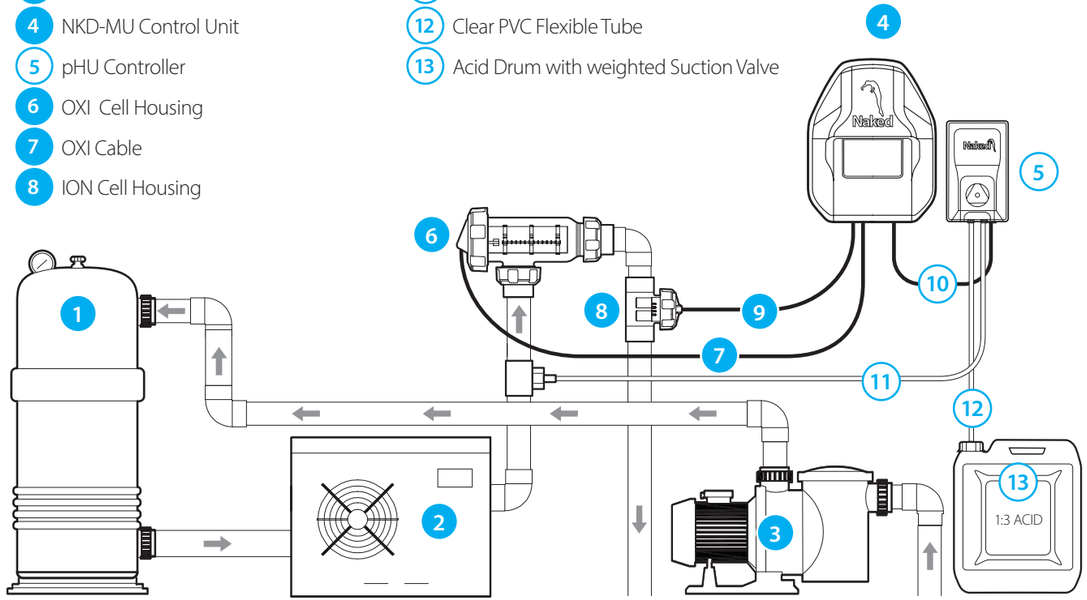


Typical pool setup

Pool Components

Optional NKD-pHU Controller

1. Filter
2. Heater
3. Pump
4. NKD-MU Control Unit
5. pHU Controller
6. OXI Cell Housing
7. OXI Cable
8. ION Cell Housing
9. ION Cable
10. pH Data Cable
11. Clear PVC Flexible Tube and Injection Tee
12. Clear PVC Flexible Tube
13. Acid Drum with weighted Suction Valve



Water balance and your swimming pool

In a pool or spa, we need to help nature (water) achieve balance. Balanced and clean water provides a healthy environment for your family and friends, but untreated or improperly treated water is not quite so appealing.

When water is out of balance, it becomes aggressive and seeks to balance itself by either attacking the pool surface, corroding pool equipment or forming scale on various surfaces. This can increase maintenance costs and may affect overall system performance. In simple terms, the pool owner should balance the pool's pH, its Total Alkalinity and the Calcium Hardness.

Copper/Silver is not required for balancing your pool water but are used in the Naked System to assist in the management of mineral levels eliminating the need to swim in high levels of chlorine and other chemicals associated with traditional chlorine or salt or pools.

Correct copper levels should range between 0.2 - 0.7 ppm. These levels can change after heavy rain, heavy pool usage, topping up the pool, or adding chemicals, which in turn affects water quality. All levels should be checked and adjusted regularly. Regardless of the chlorination process used, any pH drift above the recommended range (7.2 to 7.6) may inhibit the water quality in your pool.

TIP: The calculators in the Naked App will assist with correct ranges for balancing your pool water.

Water chemistry for your Naked pool

Important Notes

- ✕ Do not add cyanuric acid (Stabilizer)
- ✕ Do not use copper algaecides
- ✕ Do not use any bromine compounds
- ✕ Do not use aluminum based or other flocculants
- ✕ Do not use sodium carbonate (Soda Ash)
  - Sodium bicarbonate is fine
- ✕ Do not use granular chlorine
  - Liquid chlorine can be used if necessary

Please follow the recommended water chemistry advice below to ensure the correct operation of your Naked Freshwater System.

TESTING	IDEAL
Total Chlorine	0.5 ppm
Free Chlorine	0.5 ppm
pH	7.2 - 7.6
Total Alkalinity	80 - 150 ppm
Calcium Hardness	80 - 250 ppm
Copper*	0.2 - 0.7 ppm
Total Dissolved Solids (TDS)	800 - 1200 ppm
Salt / Mineral Salt	500 - 700 ppm
Phosphates	0 - 0.2 ppm

TIP: If you are taking your water to a pool shop for testing, use the Naked Water Test Bottle provided with your system and show them the table (right). Alternatively download the **Water Testing Tips** article from the Naked website or the Naked App.

NOTE: The above takes into account all pool surfaces. TDS levels should not exceed 3000 ppm for optimum performance and complete Fresh Water experience. Excessive TDS levels may cause the unit to overheat and void warranty.

**Always test copper using the Naked 3-in-1 Test Kit.*

Adjusting your water chemistry

pH

For adjustments to pH levels, use Liquid Hydrochloric Acid or Muriatic Acid. For correct adjustments, use the Naked 3-in-1 Test Kit supplied with your system or a pool shop.

DO NOT add more than 500 ml / 17 fl oz at any one time or while people are in the pool. If a NKD-pHU Controller is installed simply adjust the running times up or down depending on the pH reading.

Total Alkalinity (TA)

For adjustment of Total Alkalinity levels, use Buffer (Sodium Bicarbonate). 200 g / 7 oz will raise the Total Alkalinity by 10 ppm per 10,000 ltrs / 2640 gal.

Salt (TDS)

For adjustments to salt levels, always use quality pool salt or mineral mix from a pool shop rather than hardware stores to ensure crystal clear water.

Calcium Hardness

For adjustments of Calcium Hardness levels, Calcium Chloride should be used. Correct amounts need to be checked and advised by your pool shop.

It is important to clean the filter regularly and the water chemistry of your pool should be kept at the proper levels at all times. Failure to keep a correct chemical balance can result in scale build-up and possible discoloring of the pool surface. Most importantly, maintaining correct water balance helps support consistent water quality for pool enjoyment.

We recommend testing pH and Copper weekly. Test Alkalinity and Phosphate levels every 4 - 6 weeks and Calcium Hardness quarterly.

TIP: Use the calculators built into the Naked App to assist you with correct levels and adjustments for your pool.

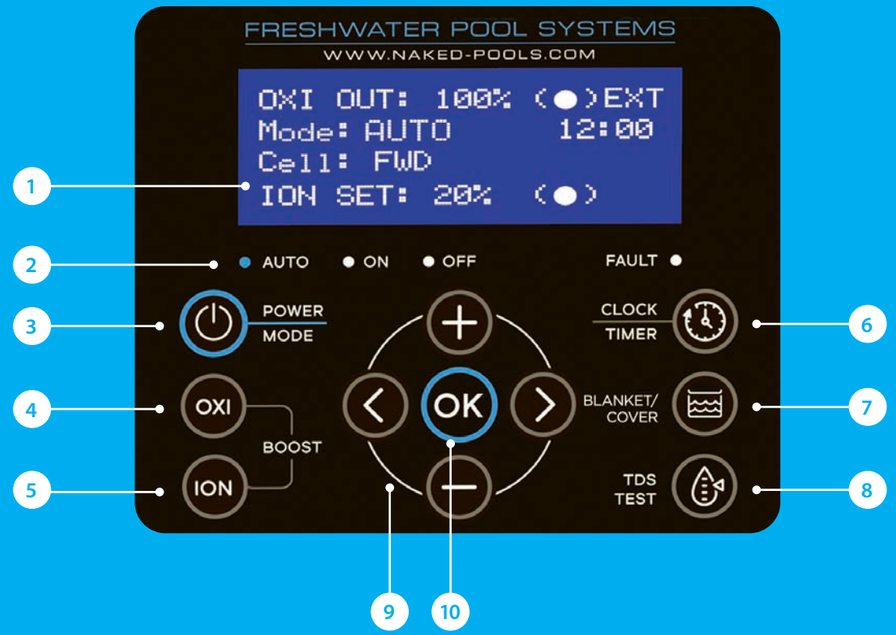
Overview – Major Functions

This is a general overview of each button on the main screen. More detailed information about these functions are contained in the System Menu Overview of this guide.

Looking for more detailed information?

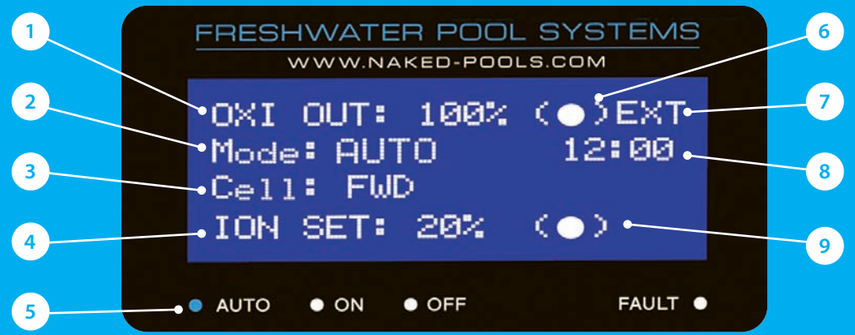
Once you're familiar with the instructions in this guide, you can find more detailed information, help videos, downloads, FAQs and more at:
https://support.naked-pools.com
or download the Naked App from
https://naked-pools.com/the-naked-app

1. DDS Screen – Default Display Screen.
2. Indicators – Displays what mode the system is currently in.
3. Power Mode – Switch between running modes Auto/Off/On.
4. OXI Boost – Boost the Oxidizer during/after heavy pool use or extreme weather.
5. ION Boost – Boost copper levels in the pool if low.
6. Clock & Timers - Single/Dual/Ex
7. Blanket/Cover – Reduce the output of the system when the pool is covered.
8. TDS Test – Check the TDS levels in your pool. (Ideal levels are 800 - 1200 ppm)
9. Navigation - [+] Increase. [–] Decrease. [<] Back/Exit
10. Enter/Save/Next



Overview – DDS (Default Display Screen)

1. What % the Oxidizer is running at. Should always be 100% during summer but can be reduced during winter or for indoor/covered pools. (See OXI OUT in more detail further in this guide).
2. The mode the system is currently in. Can range between AUTO (Default), ON (Manual) or OFF.
3. Shows direction cell is operating relating to reverse polarity. Will change between FWD, REV or OFF.
4. Shows the Set Point for the Ionizer (copper output). This screen will also fluctuate between ION Set and Water Temperature and any possible alerts from the unit.
5. LEDs for current mode or if a fault is detected.
6. The dot inside the brackets shows when the Oxidizer is actually running. The (•) may flash at times when TDS is higher than expected and the unit compensates for this by switching the Oxidizer off/on to avoid higher than expected chlorine levels.
7. Timer mode the unit is running in T1 or T2, where the unit will work in accordance to the times set. EXT is displayed when the unit run times are set by an external controller. (More detail available further on in guide).
8. Time of day
9. Similar to OXI OUT, the dot will be only visible when the Ionizer is running. ie: at 20% you will see the dot on for two minutes of every ten. The Ionizer reverses polarity every 3 minutes for even wear of the copper/ silver anodes.



System menus

There are 13 sub menus within the system. Some functions are the same or similar to what is available through the main buttons on the front of the unit such as CLOCK/TIMER and OXI BOOST, while others are more detailed.

To access the **MAIN MENU**, simply **press the [OK] button** and then either the **[-] or [+] buttons** to scroll through the options.

When you have the menu you want, simply **press the [OK] button** to enter.

NOTE: Everything will appear on the digital display as to how to adjust, save or exit these menus.

1. **BRIGHTNESS** - Factory setting for screen brightness is 65% but this can be adjusted up or down.
2. **CELL CLEANING** - The number of hours the oxidizer plates reverse polarity (clean themselves). By default these are set for 10 hours. If your pool water is high in calcium and you start to see a build up on the plates inside the cell you may need to reduce the reversing hours to accommodate. This is important as build up on the plate surface reduces the performance and you may even notice the OXI OUT percentage drops below that ideal of 100%.
3. **OXI BOOST** - Same function as the OXI button on the front of the unit. This boosts the oxidizing time if the pool is under heavy use or severe weather conditions.
4. **OXI SETTING** - The factory setting for OXI Output is 100%. If TDS levels are within the correct range (800 - 1200 ppm) the OXI OUT is producing 0.8 lbs / 24 hr or 15 g/hr of chlorine . Without stabilizer (cyanuric acid) in the pool this level is negligible but most effective. However, if the pool is indoors or constantly under a pool blanket or permanent cover you may want to reduce the output level to avoid chlorine build up in the pool water.
5. **CLOCK/TIMER** - Same function as the clock/timer icon on the front of the unit. Used for adjusting the CLOCK, SINGLE, DUAL and EXTERNAL CONTROLLER TIMERS. There is more information about Timers in this guide.
6. **CONTRAST** - Factory setting for contrast is 80%. This can be adjusted up or down should you have difficulty seeing the digital display.
7. **POWER/MODE** - As per the blue button on front of the system. This will adjust the unit from AUTO - OFF - ON (Manual)
8. **TDS TEST** - Used to measure the TDS (Total Dissolved Solids) in the water. TDS is the combination of all solids that are present in the water such as salts/minerals, calcium, sodium bicarbonate and acid. A total of four readings are displayed for 30 seconds in the FWD direction and then another 30 seconds in the REV direction.
9. **SERVICE MENU** - Please contact your local Naked dealer or service technician for further information in the use of these functions. Model number and pool size can be found here and this is typically used for troubleshooting and not required by the average consumer.
10. **SPA MODE** - Rarely required when the swimming pool has a spa combination with the same body of water. The Spa mode allows your system to be adjusted to suit your Spa by reducing the OXI Output to 10%.
11. **BLANKET/COVER** - Reduces the output of the Oxidizer and Ionizer by 50% to reduce the output of the system when the pool is covered, accommodate low use conditions and during colder months. It does not adjust pump run times.
12. **ION SETTING** - Used to adjust the current Ionizer output from the default 20%. You may need to reduce this for very small pool sizes.
13. **pH CONTROLLER** - Adjust the daily run times where necessary. Priming the acid line or manually set a given amount of acid if needed.

TIP: ION SET will automatically reduce by 50% when the temperature is less than 68 °F / 20 °C and will revert back to 20% once the temperature increases past 68 °F / 20 °C.

Details of Major Functions

Clock / timers

CLOCK /TIMER displays are all shown in 24 hour format.

It is important to understand the difference between CLOCK and TIMER. CLOCK means the physical time of the day (e.g. 08:00) and TIMER means the settings programmed to turn the unit ON and OFF.

ADJUSTING THE CLOCK

Simply press the Clock icon on front of the unit TWICE. You can then adjust the time of day using [+] or [-] buttons and OK to save hours and then move to the minutes.

NOTE: Variable speed pumps
These are designed to run for longer at a lower speed. It is important to increase the speed of your pump, to ensure adequate circulation and filtration.

ABOUT THE TIMERS

The Naked Freshwater Pool System defaults to run in (EXT) EXTERNAL CONTROLLER TIMER. If the system is set up without an external controller the unit has 2 built in timers within the unit.

- TIMER 1 (T1) and TIMER (T2) when in operation is oxidizing the water, keeping the pool crystal clear. During this time the system is producing a small amount of chlorine.
- TIMER 2 (T2) may need to be adjusted depending on your pool and its environment to allow for longer sanitization and filtration.
- During TIMER 1 the ION SET will work for a set period of time based on the pool size. Once completed the temperature will be displayed.

If an external controller is not installed, we recommend TIMER 1 be set to run for 1 hour per 10,000 ltrs / 2640 gal of water in your pool during summer and TIMER 2 to start one hour later and run for 2 - 4 hours.

NOTE: CLOCK/TIMERS are in **24 HOUR FORMAT**

External controllers

When your Naked System is connected to an automation system, this allows you remote control of your pool, spa, lights or other features. We advise you to check with your builder/ installer or refer to the Installation Guide provided with your unit as to the best way to set up your swimming pool.

Information on external controllers can also be found on the Naked Pools App.

OXI Boost

The OXI button is designed to give the pool water a boost to ensure it remains crystal clear and will help breakdown organic matter, sunscreens, body oils and other factors that get in the water during heavy use.

It is a good idea to utilize this function either when the pool is under heavy use or directly after or if your pool is looking cloudy after a lot of use or adverse weather conditions such as heavy rain or storms.

When the OXI Boost button is pressed you will see the timer on the screen start counting down from 24 hours.
To adjust the run time, press the [-] button or leave it and after the default 24 hours countdown period ends the system will automatically go back to the previous setting, normally AUTO.

A general misconception is that engaging the OXI Boost feature will help increase your copper level in the pool which it will NOT. (See ION Boost).

TIP! Check and adjust pH before and after OXI Boost.

ION Boost

Firstly, did you check your copper level using the Naked 3-in-1 Test Kit provided. If not, then please do so remembering to read the sample in the shade and not direct sunlight and make certain your pH is within range (7.2 - 7.6).

Low or no copper residual in the pool can happen and one of the most common reasons is dilution - maybe you have experienced a lot of rain or been back washing the pool a lot recently.

Copper levels can also decrease due to having phosphates present in the pool... the copper residual in the water can be eaten up if phosphates are present, so please get a water analysis done by your local pool shop and if required treat the pool accordingly.

If it's determined that your copper is low, you can use the ION Boost feature which will step you through the process. The ION Boost will automatically determine the run time of the Ionizer based on the figure you enter and the pool size.

The ION SET will change to 100% while in boost mode.

We advise testing copper levels at least once whilst ION Boost mode is running. Should the levels be within range (0.2 - 0.7 ppm) while the Boost function is still running, simply press the ION Boost icon again, wait a few seconds and it will give you the option to EXIT.

NOTE: The ION will only boost during the standard run times of Timer 1 each day, not continuously like the OXI Boost function. After the time has elapsed the ION SET will automatically go back to its default setting. (It is possible this may take a few days depending upon the pool size).

TDS Test

TDS stands for "Total Dissolved Solids" and in simple terms refers to anything solid that is dissolved in the water.
Your Naked System has a built-in TDS meter that measures the water and can be checked by pressing the TDS Test button.

- Common contributors to TDS in a pool are salt, buffer (alkalinity increaser), calcium hardness and acid.
- The Naked System operates on record low levels of 800 - 1200 ppm in comparison to traditional salt/mineral or chlorine systems.

It is best described that the lower the TDS in the water, the less dense the water is therefore the clarity and quality of water with a Naked System is a clear standout in comparison to its rivals.

Total dissolved solids play a significant role in water chemistry. While pH, total alkalinity and calcium hardness levels get all the attention, TDS should not be overlooked.

Adding 'anything' into the water increases TDS levels. However, often TDS becomes diluted due to rainfall, backwashing and topping up pool water. As TDS decreases the effectiveness of the system (OXI/ION) can also decrease.

NOTE: Cold Water affects TDS. The water is less conductive than during summer months so there may be instances where more salt/minerals are required during winter months.

ALERTS: If the TDS levels in your pool are either very high or too low you will see a warning message on the LCD screen. For high TDS this can only be adjusted by diluting pool water but is not critical. If the TDS is too low you should increase the levels (normally through salt/minerals) to ensure adequate output in the pool water.

TIP! – A clear indication of low TDS in the pool water is the OXI OUTPUT will not be showing 100% or less than its original set point. If the OXI SET = 100% but the OXI OUT during Timer 1 or Manual Mode is showing much less than the set point, this is a clear indication that the TDS levels are low or you have high calcium build up on the plate material in the cell and it requires cleaning.

Pools during winter

There is a term used "Winterizing your pool". During colder months when the pool is unlikely to be used, pool shops may recommend a "Winterizer Pack" which is typically an algaecide. This is not needed for a Naked Freshwater Pool as it already contains copper.

In the colder areas where draining the pool is necessary to avoid the water from freezing we suggest switching off the Naked System entirely. Once switched off we recommend removing the OXI Cell and Ionizer from the Cell Housing, further information on how to do this can be found on the Naked Pools App (Winterizing your Naked System).

Often a pool cover may also be used over winter for long periods of time which can trap and hold chlorine in the pool water.

Often a pool cover may also be used over winter for long periods of time which can trap and hold chlorine in the pool water.

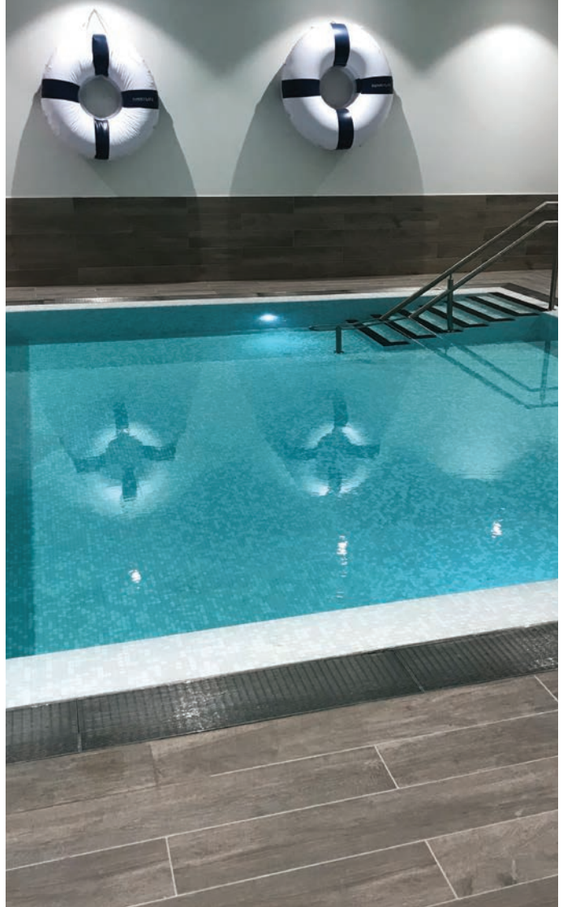
MENU 11 allows you to set your Naked System to winter mode and reduce both the OXI and ION setting by 50% from its current default. This reduces chlorine and copper production as they are in less demand by the pool during winter months.

You will see on the DDS screen the Mode will show as 'BLANKET.'

Once temperatures increase you can use the same menu to revert back to normal operation and the OXI and ION SET will return to their original settings. (Normally OXI = 100% / ION = 20%)

NOTE: Where possible we recommend running pumps more rather than less for better circulation. Pool Blankets should also be removed to allow the water to breathe at least once a week during winter.

IMPORTANT! – We DO NOT recommend adding a chemical based 'algaecide' to winterize your pool as the Naked System already contains the natural mineral of copper!



Indoor or covered pools

Pools that are indoor or under cover are not exposed to direct sunlight. UV is a main factor in removing chlorine from the pool water. (This is ideal for a Naked System).

With indoor and covered pools it may be necessary to press the Blanket/Cover button to reduce chlorine levels building up over time. It may take some time to find the right setting for your pool size, environment and use. If you have any queries, please refer to our online Help Centre at naked-pools.com or download the Naked App.

IMPORTANT! – Pool blankets trap chlorine in the pool. Simply press Blanket/Cover Mode when the pool is covered and remember to remove the blanket often to allow the water to breathe and be exposed to direct sunlight where possible.

Faults and Alerts

Should there be situations where operation or standard performance of the system may be affected you will see the Fault light come on and the fault message or an alert will be displayed at the bottom of the DDS.

TIP: For detailed information about these alerts and possible causes please refer to our online Help Centre at **naked-pools.com** or download the Naked App.

LOW TDS

TDS levels below 600 ppm means system operation will not be as effective. Check water balance and add salt. LOW TDS for long periods of time can damage the plate material inside of the cell.

TIP: Another indicator of Low TDS will be that the OXI OUT will not retain its setting at 100%.

HIGH TDS

TDS levels above 2500 ppm. Try diluting some of the pool water. TDS levels should never exceed 3000 ppm.

CHECK IONIZER RODS

The Copper/Silver anodes have warn and will need replacing. Replacement Ionizer Rods can be ordered directly online at www.naked-pools.com.

WATER FLOW FAULT

Occurs when there is no water flow or the water level in the cell housing is too low and has exposed the flow sensor on the OXI Cell.

WATER TEMP LOW

Should the water in your pool get below 50 °F / 10 °C the unit will come up with an alert to notify you. During the process of electrolysis, very cold water can cause damage to the titanium plate material within the cell.

To combat this the Naked system will automatically drop the OXI (oxidizer) output to 10% (from 100%) to protect itself. As soon as the water increases above 50 °F / 10 °C again the alert will go off and the system will set the OXI back to 100% or it's previous default.

WATER TEMP HIGH

This alert will show when the water temperature is between 104 °F - 113 °F / 40 °C - 45 °C and the unit will operate as normal. This alert is in the event that there may be a closed valve, pump fault or water flow issue.

Should the water rise above 113 °F / 45 °C the unit will pause and wait for the water temperature to drop again, once more to protect your equipment and the safety of others.

Troubleshooting

CALCIUM BUILD UP (WHITE SPOTS)

This is caused by an imbalance of chemicals in the pool. It is important to maintain the chemical balance at all times to avoid the build-up of calcium. If calcium build-up does occur, have your water tested and seek advice from a pool professional. (See "Inspecting and cleaning the OXI cell further in this guide").

SUNSCREENS / BLOCKOUT

Sunscreens do come off the body when swimming and can affect water balance and cause the water to go cloudy. Excessive use can also form a residue on the waterline of your pool which will then need wiping to ensure no staining develops. Try to avoid excessive use of sunscreens and make sure it is applied at least 30-45 minutes prior to jumping in the pool. Although rare, certain people when using sunscreen in the pool may find discoloration of bathers after swimming. (This can be removed when washing).

PHOSPHATES

Phosphates typically come into the pool from lawn care products; fertilizers, sprays, and other phosphorous based chemicals. Phosphates can also come from dead skin cells, body fats and oils. In pool water, phosphates are a food source for algae and will assist in its reproduction. It's important to keep your pool well maintained and always remove debris as soon as possible from the pool. For unknown reasons, many pool shops do not include a test for phosphates as standard practice so please ensure to insist on it when testing your water. We recommended testing every 4-6 weeks depending upon the environment of your pool.

ENVIRONMENT

Harsh weather conditions also affect water quality. Strong winds blow dust and debris into the pool. High rainfall can dilute pool water and is typically acidic which may alter water balance. Lightning is full of nitrogen, similar to fertilizers, this can feed phosphates and therefore algae. Consider what your car or house windows look like after high winds and rain, the same applies to your pool. Be aware of changing conditions that may affect your pool and manage accordingly. Should you be in a generally harsh environment or area with many trees/leaves you may need to look at extending run times to accommodate.

VARIABLE SPEED PUMPS

Increasingly more popular, these pumps are designed to run for much longer but at a lower speed (flow rate) which in turn saves on power costs. It's important to understand that if you are running your pump at low speed you will likely need to extend the runtime of the Naked System to accommodate. ie: a standard pump may require five hours to adequately filter and sanitize an average pool, but with a variable speed pump set on low, the running time will need to be increased to at least eight hours a day. For more information on setting timers and run times, please see our helpful How To Videos: https://naked-pools.com/how-to-video-naked-pools/

RUST COLORED SPOTS

These spots can occur on the surface of concrete/gunite pools and is due to the mixture of natural stone. The chemicals used to treat the pool can cause leaching of stones which has the appearance of rust, as do leaves left on the surface releasing tannins into the pool water. However, it is purely cosmetic and can be simply removed by using hydrochloric/muriatic acid directly to the spot that will clean the surface of the pebble. It is not a structural issue and can occur periodically.

Owner maintenance

It is important to understand a certain amount of owner maintenance and care is required to keep your investment operating properly and your water healthy.

We would like to share with you a few tips and hints to extend the life of your investment:

- **pH level** – it is extremely important that your pH is maintained at the correct levels at all times. This is something you should test weekly with a simple Water Test Kit. More than likely, your pH level will be high for the first 10 -12 weeks as your pool surface settles into its new environment. Please be aware this is totally normal for nearly all new pools. The NKD-pHU Controller will dose acid daily or if not installed acid can be purchased from your local pool shop.

- **Water Balance** – your pH level is only one part of the required water testing. Your other weekly testing can also be done with your Water Test Kit or pool shop.

- **Copper Level** – your Copper levels are maintained between 0.2 - 0.7 ppm and need to be tested at least once a week to fortnight especially in summer. Test the copper levels with the 3-in-1 Test Kit provided with the system. Further information can be found here https://naked-pools.com/how-to-video-naked-pools/

- **Evaporation** – in the summer you can expect to lose up to 2 "/ 5 mm of pool water a day. Please keep an eye on your water level and don't let it go below your skimmer box opening. Severe changes in temperature between night and day also contribute heavily to evaporation.

- **Pool Brushing in concrete pools** - it is very important in the first month to brush your interior surface every day. This prevents a rough surface and you don't get calcium build up. You should try to brush your swimming pool interior at least once a week thereafter. A robotic pool cleaner will also help here but remember to get right into the corners!

- **Quarterly Water Tests** – there are some things that your Test Kit can't test such as calcium and phosphate levels so you should take a water sample to your local pool shop every few months. Please make sure to keep your monthly printouts for future reference.

TIP: You should check your swimming pool regularly to make sure that the water is safe for swimming.
A simple way to do this is to look into the pool each day and check:

- Is the water clear?
- Can you see to the bottom of the pool?
- Does the water look any different to how it looked the day before?

Any changes, such as cloudiness, means you should test the water and take any necessary steps to improve water quality before swimming.

The major keys to water quality include:
Water Flow and Run times, Filtration, pH Levels and Total Alkalinity (TA).

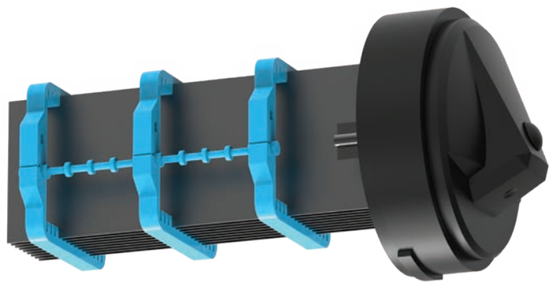
Inspecting and cleaning the OXI cell

Reverse Polarity electrodes should not normally require cleaning, however, in areas with very hard water all the calcium may not be removed. Calcium deposits may form on the lower areas of the electrode, the sensor or the sides of the electrode plates. All electrodes must be cleaned before scale/calcium builds up to the point where the electrode gaps in the OXI Cell become bridged.

If the OXI Cell has excessive calcium deposit, this may damage the electrode coating, as the bridging on the plates affects the operation.

The OXI OUT % can also decrease due to excessive build up of calcium and once cleaned will return to normal levels. Monitoring pH levels weekly/fortnightly and maintaining them within range will assist in less calcium build up.

- Check the OXI Cell to prevent the accumulation of pool debris that for any reason may have by-passed the pool filter, particularly after backwashing.
- Check that the O-ring is clean, greased with silicone grease (DO NOT use petroleum based jelly) and securely located in the Housing.



FOR CLEANING, PLEASE FOLLOW THESE STEPS

- Switch off unit at the main switch or controller to ensure the pump and system will not turn on.
- Unscrew the OXI Cell Locking Ring and remove the electrode for inspection. If calcium build-up is present, immerse the electrode in cell cleaning solution.

A solution can be made by mixing 1 part hydrochloric/muriatic acid to 10 parts of water. If excessive build-up is present, a stronger solution may be used to remove the calcium.

Using 5 parts of water will make a more aggressive solution and will not damage the electrode.

You can choose to use a cell cleaning solution and if so, follow the instructions supplied. Allow the cleaning solution to dissolve the calcium deposits for about 10 minutes. Dispose of the cleaning solution at an approved council depot and never into storm water or sewage drains.

HANDY TIPS

- Returning this mix to your pool only returns the calcium you just removed, so you may be better off reusing the solution until exhausted then disposing of it. Always store this solution safely as advised on the container.
- Do not scratch or bend the electrode plates in the Housing.
- Ensure that the O-ring is clean, greased and properly seated in the Cell Housing.
- Rinse the electrode in clean water and re-fit the electrode in the Housing, ensuring that the Locking Ring is hand tight and secure.
- Turn on the main switch or controller and the pump and the system will return to the mode it was in before.

IMPORTANT: When mixing acid with water, ALWAYS ADD ACID TO WATER. NEVER ADD WATER TO ACID.
Eye Protection, mask and gloves should be worn when cleaning the cell.

Inspecting the ION rods

The Copper/Silver Anodes are sacrificial and will have to be replaced periodically (typically every 3-4 years) depending on the size of your swimming pool.

When the ION Rods are worn and ready to change the fault light will appear to say "CHECK IONIZER RODS". Replacement ION Rods can be purchased either direct from Naked Pools or your Naked Pool Dealer or service technician.

Naked Pools ION replacement Copper/Silver Rods come complete with cable and plug attached for ease of installation and replacement.

FOR INSPECTION OR TO CHANGE ION RODS PLEASE FOLLOW THESE STEPS:

- ✓ Switch off the main switch or controller as this ensures the pump and system will not turn on.
- ✓ Unscrew the ION Locking Ring and remove the Rods from the Housing and simply unplug the cable from the base of the control unit.
- ✓ Replace with new ION Rods and repeat the process, ensuring that the O-ring is clean, greased and properly seated and the Locking Ring is hand tight and secure.
- ✓ Turn on the main switch or controller starting the pump and the system will return to normal operation.

Maintaining the pH Controller

It is important to understand a certain amount of owner maintenance and care is required to keep your investment operating properly. We recommend the following basic maintenance and further information can be found on the Naked Pools App.

PLEASE FOLLOW THE THESE STEPS:

✓ Injection Point on Injector Valve

Check the injection point periodically by inspecting the Clear Injection Tee Piece for build-up of solid matter at the end of the PVC tubing. While unscrewing the BLACK lock nut, take care not to lose the rubber O-ring.

✓ Lubricate Squeeze Tube

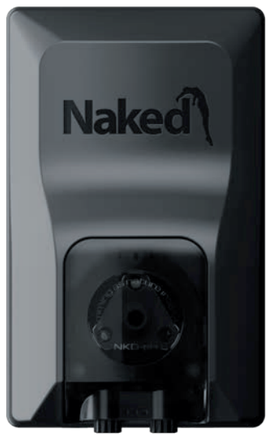
Lubricate the pump squeeze tube every 3-6 months. Use a silicone-based lubricant only as petroleum-based lubricants will cause damage to the tube and rollers.

✓ Replace Squeeze Tube

Depending on usage, the squeeze tube may need replacing after 1-2 years of use. Before replacing, ensure that the suction and injection tubes are empty. We recommend using the original sized Tygon® Norprene® tube as incorrect sizing will damage the unit.

It is important to check the condition of the NKD-pHU Tri-Roller Block each time the squeeze tube is replaced and changing this part at least every 24 months.

To replace the squeeze tube and Tri Roller Block, please follow the instructions included with the replacement kit, or on the Naked Pools App.



For more information, guides, videos, calculators and more, scan the QR code to download the Naked App.

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