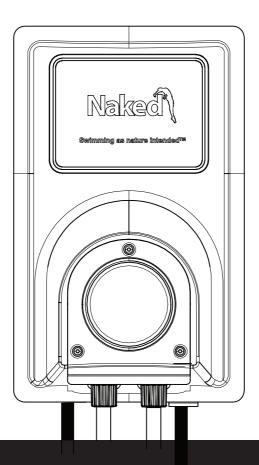


pH Controller INSTALLATION & STARTUP GUIDE

MODEL: NKD-pH



NOTE:

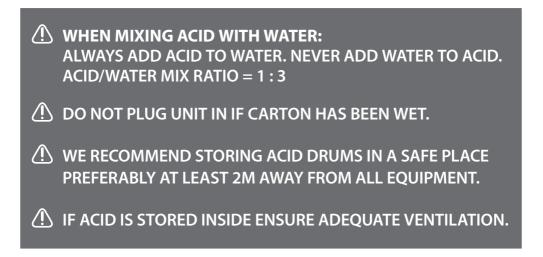
- 1. READ THIS DOCUMENT PRIOR TO INSTALLATION. IMPROPER INSTALLATION WILL VOID WARRANTY.
- 2. PRODUCT ONLY TO BE INSTALLED & SERVICED BY A SUITABLY QUALIFIED PROFESSIONAL.
- 3. THIS MANUAL CONTAINS IMPORTANT INFORMATION. ONCE INSTALLATION IS COMPLETE INSTALLER MUST PROVIDE THIS MANUAL TO OWNER/OPERATOR TO STORE IN A SAFE PLACE.

🕐 IMPORTANT - PLEASE READ!

This guide contains important information about the installation, operation and safe use of this product. When installing and using this electrical equipment, basic safety precautions should always be followed. Failure to follow safety warnings and instructions in this manual can result in serious injury and/or damage to the equipment. Read and follow all warning notices and instructions that are included in this guide.

The NKD-pH Controller internally contains live components. There is a danger of electric shock if opened. If the power cord is damaged then the manufacturer, their agent or a similar qualified person in order to avoid a hazard, should replace it. The product shall be installed according to AS/NZS 3000 wiring rules. It shall be installed outside the pool zone.

To reduce the risk of accidents or incidents, service on the unit should only be performed by a qualified pool service professional and not operated by children under 18 years of age.



WATER BALANCE GUIDELINES - Ideal Levels

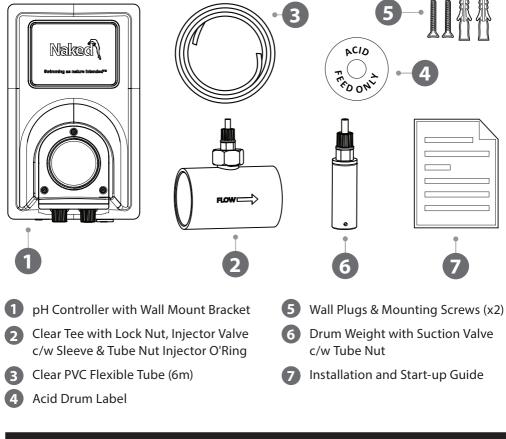
Pool Type	рН	Salt	Total Alkalinity	Calcium Hardness
Concrete	7.4 - 7.6	500-700ppm	80 - 150ppm	200 - 250ppm
Fibreglass or Vinyl	7.2 - 7.4	500-700ppm	80 - 120ppm	150 - 190ppm

Specifications subject to change without notice.

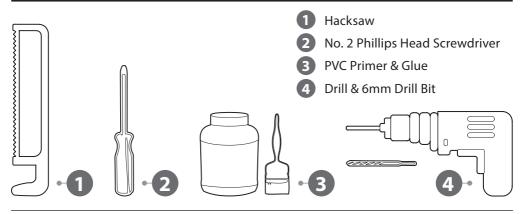
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Whilst every care was taken in preparation of this document, Naked Pools accepts no responsibility for the accuracy of the information supplied.

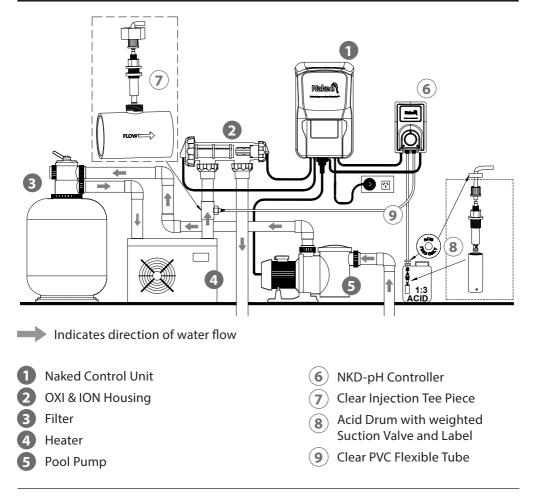
PH CONTROLLER | PARTS SUMMARY



TOOLS REQUIRED



TYPICAL SYSTEM INSTALLATION



⑦ Before you start:

- NKD-pH uses a 1 : 3 Acid/Water mix ratio. Add 15L water then 5L of acid to a 20L drum. Always add acid to water, never water to acid.
- Install the Clear Injection Tee Piece before or after the OXI & ION Cell Housing taking note of the flow direction indicator.
- All installations must be after any heating.
- Store the acid drum at the furthest possible point away from all equipment.

INSTALLATION STEPS (Refer To Typical System Installation Diagram)

- **STEP 1** Attach Wall Mounting Bracket in the desired location for the NKD-pH using the Wall Plugs and Mounting Screws provided.
- **STEP 2** Snap the pH Controller into the locating pins of the Mounting Bracket.
- **STEP 3** Install the Clear Injection Tee Piece before or after the OXI & ION Cell Housing taking note of the flow direction indicator. Note: This should be installed after any heating.
- **STEP 4** Measure and cut the Clear Flexible PVC Tube for the Clear Injection Tee Piece.
- **STEP 5** Use the remaining Clear Flexible PVC Tube for the acid drum, keeping the acid drum a minimum of 2m from any equipment.
- **STEP 6** Drill a 6mm hole in the lid of the acid drum for the Clear PVC Flexible Tube and attach Acid Drum Label to the cap.
- **STEP 7** Connect the Clear PVC Flexible Tube to the base of the peristaltic pump (left side) and feed through the 6mm hole into the acid drum and attach to the Acid Drum with weighted Suction Valve.
- **STEP 8** Connect the Clear Flexible PVC Tube to the base of the peristaltic pump (right side) and attach to the Clear Injection Tee Piece.
- **STEP 9** Plug the pH Controller cable into the programming plug on the base of the Naked Control Unit.
- **STEP 10** Plug the piggy back plug into the AC socket on the base of the Naked Control Unit and then the pump into the piggy back plug.

OPERATING THE CONTROLLER

The NKD-pH is based on an algorithm and is designed to dose acid into the pool each day based on a preset time in accordance with the pool size entered during the Initial Start-up.

The pH controller will be activated each day when T1 starts and will run for the preset time based on the pool size.

If pH levels are high, longer running times will be required, and similarly if levels are low, run times will need to be decreased. Every swimming pool is different depending on the set up and environment.

To change dosing times simply press [OK] for the Main Menu within the Naked Control Unit and using the [+] and [-] buttons select M15 pH Control.

NOTE:

WHEN STARTING THE NKD-PH FOR THE FIRST TIME THE ACID PUMP WILL AUTOMATICALLY PRIME WHEN THE INITIAL STARTUP BEGINS OR WHEN T1 IS ACTIVATED.

THERE ARE 2 MENUS FOR PH CONTROL

1. pH1 RUN TIME

- Adjusts the run time of the acid pump.
- Run time is displayed in minutes indicating the run time of the acid pump each day when T1 starts.
- If pH levels are high simply increase the time by pressing the [+] button.
- If pH levels are low simply decrease the time by pressing the [-] button.

Adjustments may be necessary, we recommend adjusting the Run Time by 1-2 minutes and checking pH levels until the correct levels are achieved.

2. pH2 DEMAND or PRIME

- Used to manually dose acid or to prime the acid line after changing the acid drum.
- Displayed in ml, the default is 100ml and can be adjusted up to 5000ml.
- The acid pump will dose the required amount entered and once completed will return to the RUN TIME in pH1
- Calculate the amount of acid required by using the Dosing Calculator in the Naked Pools App. Simply select the ml required by pressing the [+] and [-] buttons and [OK] to confirm.

MAINTENANCE

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.

4.1 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.

4.2 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.

4.3 Replace Squeeze Tube

Depending on usage, the squeeze tube may need replacement after 1-2 years of use. Before replacing, ensure that the suction and injection tubes are empty. To replace the squeeze tube, please follow the instructions included with the replacement kit, or on the Naked Pools App.

Only use original sized commercial grade Tygon[®] Norprene[®] tube as incorrect sizing will result in early failure of the Tri Roller Block.

TECHNICAL SPECIFICATIONS

220-245		
1.00		
13W Motor - 20W Total		
50		
135W x 225H x 123D		
0-1.0		
350		
Tygon [®] Norprene [®] (Commercial spec)		
10		
PVC with viton sleeve		
6m x 6mm Clear Flexible PVC Tube		
Heavy-duty PVC		
Approved piggy-back type		
40/50mm		
80-650		
34		
2.5		



or visit your App Store and search "Naked Pools"



Swimming as nature intended[™]



(2)



support@naked-pools.com



www.naked-pools.com