WATERCO
water, the liquid of life

OXISWIM

DUAL SANITISATION

Quick Reference Guide

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WATERCO

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WARNING

This equipment must be installed and serviced by a qualified technician.

Improper installation can create electrical hazards, which could result in property damage, severe injury, or death. Improper installation will void the warranty. If you cannot obtain the information to a particular question from this guide, please contact the place of purchase or your nearest Waterco branch for further details.

Notice to Installer

This manual contains essential information about the installation, operation, and safe use of this product. Once the product has been installed, this manual must be given to the owner/ operator of this equipment.

OXISWIM
DUAL SANITISATION

Chemical start-up procedure

OXISWIM

When starting up an Oxiswim Dual sanitation system on a new pool it is important to follow some easy basic steps on water chemistry.

Step 1. Always start with balanced pool water.

Test and balance the below parameters

Test	Result
Free available chlorine	1.0ppm – 2.0ppm
pH level	7.2-7.6
Total Alkalinity level	60ppm – 80ppm
Calcium Hardness	180ppm-400ppm
Salinity (= total Pool salt & Mineral Crystals) For low salt cell use*	2000ppm – 3000ppm
Phosphate level	Less than < 0.5ppm

pH Adjustment chemicals

To decrease pH - Use Perox pH Control or Aqua Health pH Decreaser (Dry Acid)
To increase pH - Use Aqua Health pH Increaser

Total Alkalinity adjustment chemicals

To decrease Total Alkalinity – Use Perox pH Control or Aqua Health pH Decreaser (Dry Acid)
To increase Total Alkalinity – Use Aqua Health Alkalinity increaser

Calcium Hardness adjustment chemicals

To increase Calcium hardness – use Aqua Health Hardness increaser.

Follow all instructions on the product packaging for dosage rates required.

OXISWIM

Step 2. Adding the Oxiswim specialised products.

Now that we have a balanced pool, we can start adding the Oxiswim specialised products to the pool water in easy-to-follow steps.
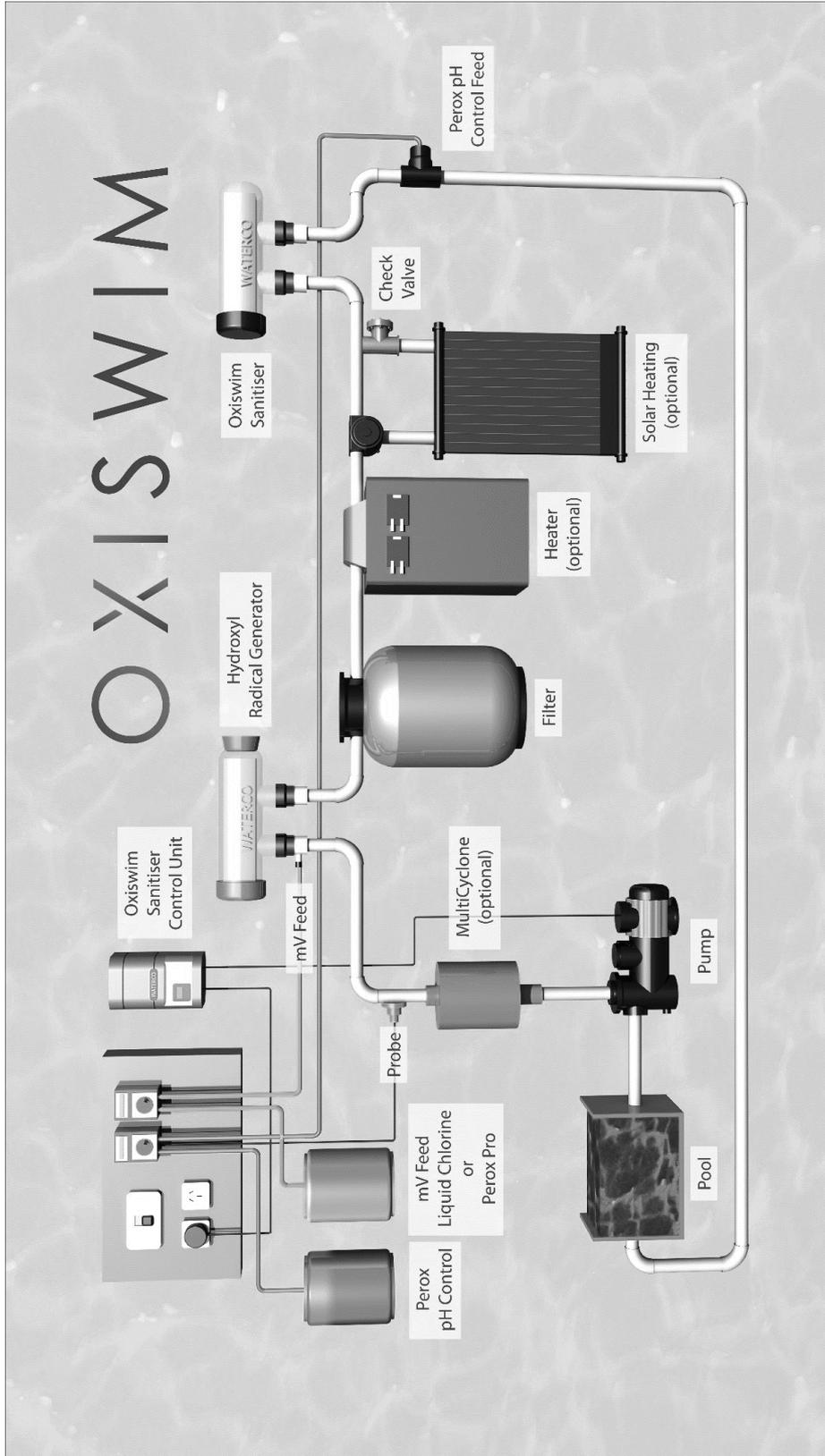
Specialised product	Dosage Rate	Expected Result
Perox Pro (Hydrogen Peroxide)	1.5 L per 10,000L	100ppm – 300ppm
Perox Safe & Clear	500g will treat 50,000L of pool water.	0.4ppm – 0.5ppm
Perox Activate	250ml per 50,000L of pool water	Biofilm Removal

Wait 24 hours and add Perox Start-up

Specialised product	Dosage Rate	Expected Result
Perox Start-up	250ml per 10,000L of pool water	Hinders Calcification

Note, DO NOT mix any chemicals together.

Dose chemicals at least 10 minutes apart.

INSTALLATION SET UP

Oxiswim Support Chemicals

When operating the system chlorine-free, the following chemicals are recommended:

- Perox Pro – Hydrogen peroxide designed explicitly for use in a swimming pool
- Perox Safe & Clear – Needed to generate chlorine dioxide from Oxiswim Sanitiser
- Perox Activate – Used to break down and remove body fats, oils, sun tan lotions, and makeup. Prevents scum build-up around the water line and Prevents and removes biofilms.
- Perox pH Control - Hybrid acid that is non-fuming, does not need to be diluted, removes phosphates, clarifies the water, and will help prevent algae.
  Safe to use with a chemical dosing system
- Perox Start-Up - Protects the surface of your pool and pipework from calcium deposits reducing the consumption of hydrogen peroxide and chlorine
- Aqua~Health Concide / Aquachlor Long Life Algaecide -Activates hydrogen peroxide in the pool water and helps prevent algae growth
- Perox Perfect - Used for green pool recovery or phosphate removal
- C5 Tablets - Prevents formation of biofilm and will reduce consumption of hydrogen peroxide and chlorine

Filter Cleaners:

- Aqua~Health Natural Filter Cleaner or similar cartridge filter cleaner may also be used

When running chlorine, you can continue to use the above support chemicals in conjunction with liquid, powdered chlorine, or chlorine produced by a salt chlorinator.
Perox Pro is not used when running chlorine.

Do not use any polyquats or lanthanum chloride-based products at any time while using this system.

CHEMICAL	INITIAL DOSE	MAINTENANCE
PEROX PRO	1.5 litres per 10,000 litres raises Hydrogen Peroxide level by 100ppm 21 fl oz. per 1000 US gal raises HP level by 100ppm	Approx. 0.09 litres (90ml per 10,000 litres per day) 1/8 fl oz. per 1000 US gal, per day
PEROX SAFE & CLEAR	100 grams per 10,000 litres 1.6 oz per 1000 us gal	**Every 3 months:** 100 grams per 10,000 litres 1.6 oz per 1000 us gal
PEROX ACTIVATE	250mL per 50,000 litres	**Every 3 months:** 250mL per 50,000 litres
PEROX START-UP	250mL per 10,000Litres 3.20 fl oz. per 1000 US	**Every 6 months:** 250mL per 10,000 litres gal 3.20 fl oz. per 1000 US gal
COPPER ALGICIDE	100mL per 10,000 litres 1.3 fl oz. per 1000 US gal	**Every 6 months:** 100mL per 10,000 litres 1.3 fl oz. per 1000 US gal
C5	1 Tablet per 10,000 litres 1 Tablet per 2500 US gal	**Every 3 months:** 1 tablet per 50,000 1 tablet per 12500 US gal
PEROX PERFECT	Shock dose (green pool recovery, phosphate removal or use with Perox Activate); 300mL per 10,000 litres 3.80 fl oz. per 1000 US gal	**Every 3 months:** 250mls per 50,000

If using chlorine, refer to the recommended dosage rate for the individual product that you are using.

WATER CHEMISTRY – Fresh Water Experience

When operating using <u>hydrogen peroxide</u> as a sanitiser, the following operating parameters are recommended:

Test	Result
Perox Pro (hydrogen peroxide)	100ppm - 300ppm
pH level	7.2 - 7.6
Total Alkalinity level	60ppm - 80ppm
Calcium Hardness	180ppm - 400ppm
Salinity (= total Pool salt & Mineral Crystals) For low salt cell use*	2000ppm-3000ppm
Phosphate level	Less than < 0.5ppm
Chlorine Dioxide	0.4ppm - 0.5 ppm

WATER CHEMISTRY – Chlorine use

When operating using chlorine as a sanitiser, the following operating parameters are recommended:

Test	Result
Residual sanitiser chlorine	1.0ppm – 3.0ppm
pH level	7.2-7.6
Total Alkalinity level	100ppm – 150ppm
Calcium Hardness	180ppm – 400ppm
Salinity (= total Pool salt & Mineral Crystals) For low salt cell use*	2000ppm-3000ppm
Phosphate level (ppm)	Less than < 0.5ppm

PLEASE NOTE: The above information is a guide only. Please refer to the local laws that govern a swimming pool or spa operation in your area. Always operate the system in compliance with local laws.

Dosing Pumps - Hydrogen Peroxide Setting

Hydrogen Peroxide				
Pool size	Tube Size (L/min)	Summer Run Time (hr)	Winter Run Time (hr)	% Setting
10,000	3	8	5	1
20,000	3	8	5	2
30,000	3	8	5	3
40,000	3	8.5	5.5	3
50,000	3	8	5	4
60,000	3	8	5	5
70,000	3	8	5	6
80,000	3	8	5	7
90,000	3	8	5	8
100,000	3	8	5	9
110,000	3	8	5	10
120,000	3	8	5	11

pH Control				
Pool size	Tube Size (L/min)	Summer Run Time (hr)	Winter Run Time (hr)	% Setting
10,000	3	1	1	6
20,000	3	1	1	7
30,000	3	1	1	8
40,000	3	1	1	9
50,000	3	1	1	10
60,000	3	1	1	11
70,000	3	1	1	12
80,000	3	1	1	13
90,000	3	1	1	14
100,000	3	1	1	15
110,000	3	1	1	16
120,000	3	1	1	17

Dosing Pumps - Chlorine Setting

Chlorine				
Pool size	Tube Size (L/min)	Summer Run Time (hr)	Winter Run Time (hr)	% Setting
10,000	3	8	5	2
20,000	3	8	5	4
30,000	3	8	5	6
40,000	3	8.5	5.5	6
50,000	3	8	5	8
60,000	3	8	5	10
70,000	3	8	5	12
80,000	3	8	5	14
90,000	3	8	5	16
100,000	3	8	5	18
110,000	3	8	5	20
120,000	3	8	5	22

pH Control				
Pool size	Tube Size (L/min)	Summer Run Time (hr)	Winter Run Time (hr)	% Setting
10,000	3	1	1	7
20,000	3	1	1	8
30,000	3	1	1	9
40,000	3	1	1	10
50,000	3	1	1	11
60,000	3	1	1	12
70,000	3	1	1	13
80,000	3	1	1	14
90,000	3	1	1	15
100,000	3	1	1	16
110,000	3	1	1	17
120,000	3	1	1	18

PUMP PROGRAMMING PROCEDURE – OXISWIM

Please note: The Oxiswim system comes preset to operate on a pool with a water volume of 50,000 litres. If your swimming pool has a different water volume, please refer to the recommended dosage rate charts in this quick reference guide for the appropriate percentages of feed and timer operation times for your specific size pool.

Steps:

1 – Set Time

2 – Set Timer (Program)

Welcome Screen

The welcome screen will look similar to the above. The only buttons needed for programming are the buttons in blue on the bottom panel (▽ △). The up and down arrows will let you scroll through the menu or individual digits. To enable programming press the up and down arrow simultaneously to enter the menus. To navigate through the setting in each menu use the tick button(✓) to scroll right and the ESC button (ESC) to scroll left. When completing any changes in the menu always click the tick button (✓) to get to the end of the changes to save the settings.

1. Set Time

Starting from the main screen press the Up and Down button simultaneously to enter the menus. Scroll Up/Down until you see the **Set Date and Time** option. Select this option by clicking the tick button.

Once in the setting, change the date and time to the current Australian Eastern Standard Time (AEST). To scroll through the setting in each menu use the tick button (✓)to scroll right and the ESC button (ESC) to scroll left. Use the up and down button to change the setting values. When completing any changes in the menu always click the tick button to get to the end of the changes to save the settings.

Please ensure the SW setting remains as pictured below (SW: -) before saving the changes.

2. Set Timer

Starting from the main screen press the Up and Down button simultaneously to enter the menus. Scroll and select the **Time Switch** option.

In the next menu select "**Timer Progr.0**". For our uses, we will only be selecting Timer 0 as the main timer on both the ACID and PEROXIDE pumps.

ACID Pump

For the Acid Pump, the default setting is for a 50,000 litre pool. To increase or decrease the acid dose rate, change the % feed in the top right hand corner. Refer to the dose charts located in the quick reference guide for assistance with determining the correct setting for your particular size pool. To scroll through the setting in each menu use the tick button(✓) to scroll right and the ESC button (ESC) to scroll left. Use the up and down button to change the setting values. When completing any changes in the menu always click the tick button (✓) get to the end of the changes to save the settings.

PEROXIDE Pump

For the Peroxide Pump, the default setting is for a 50,000 litre pool. The peroxide pump is linked to the GPO outlet. The on/off times displayed on the screen will activate the GPO when the switch box is set to Automatic. When the switch box is set to manual the GPO will operate independently of the timer setting on the Peroxide Pump. The swimming pool pump should be connected to the GPO on the control panel to ensure water is flowing when the chemical pump is active. To increase or decrease the peroxide dose rate, change the % feed in the top right-hand corner. To scroll through the setting in each menu use the tick button(✓) to scroll right and the ESC button (ESC) to scroll left. Use the up and down button to change the setting values. When completing any changes in the menu always click the tick button(✓) get to the end of the changes to save the settings.