



Ultimate AquacareTM



Marine/Reef Logbook and Maintenance Program

Tank Name/No:

Logbook No:

Start Date:

Finish Date:

Australian made, high quality, inexpensive and easy to follow steps to success.

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Introduction

Ultimate Aquacare was established in 2009 with the aim of creating quality, affordable Australian made products for marine aquariums. Our goal is to enhance the health and longevity of your aquarium inhabitants with simple dosing and maintenance methods. Download our Free Dosing app to make dosing just that little bit easier; as it does the calculations for you!



Step 1: Environment

The first step is always the hardest; it is so important to get it right the first time! It will also make the following steps easier.

For the first step, it is recommended you choose an environment i.e. (S.G.) Specific Gravity that suits your liking and budget, or you may already have a suited environment but want to change brands.

Please see table below for what is best suited for you.



Fish	LPS	SPS	S.G	pH	Mag (ppm)	Cal (ppm)	Alk (dKH)	Pot (ppm)	Temp	Dose ^	Total Volume			
											2.2kg	5.5kg	11kg	22kg
●			1.022	8.2-8.4	-1,195	-400	-8.0	-370	25°C	-35.0g	62L	-157L	-314L	-628L
●	●		1.024	8.2-8.4	-1,275	-430	-9.5	-395	25°C	-37.5g	58L	-146L	-293L	-566L
●	●	●	1.025	8.2-8.4	-1,320	-445	-10.5	-410	25°C	-38.7g	56L	-142L	-284L	-568L
●	●	●	1.026	8.2-8.4	-1,365	-460	-11.5	-425	25°C	-39.9g	55L	-137L	-275L	-551L

*These levels are a guide only, individual results may vary. Key: ~ allows a 5% range (+ or -) of variation.

^To make up 1L.

Once you have chosen an environment, it is recommended to reduce fluctuations in Specific Gravity due to water evaporation, as this will have an adverse effect upon your aquarium. To help prevent salinity fluctuations you could manually top up using deionised water or simply install one of our two Automatic Water Top Up Kits. We have a choice of Gravity Fed Solenoid or Pump with an additional auto cut off sensor to prevent the RO pump from running dry and burning out.



Gravity Fed



Pump

Step 2: Algae Control

If supplements are added without balanced nitrate and phosphate; metal ions (mainly calcium) can be depleted faster than the corals can absorb them. This is because calcium or other metal ions are bonding to the existing phosphate ions forming compounds such as tricalcium phosphate also known as tricalcium diphosphate ($\text{Ca}_3(\text{PO}_4)_2$). Therefore it is important to balance nitrate and phosphate levels prior to the addition of any supplements.

Even though low phosphate levels may be detected, phosphate may still be present in the form of tricalcium diphosphate ($\text{Ca}_3(\text{PO}_4)_2$). This may result in the growth of potentially harmful blooms of deep red cyanobacteria. This increase in cyanobacteria levels causes competition with denitrifying bacteria which raises the nitrate levels within your tank. Thus, it would be ideal to balance the nitrate and phosphate levels prior to dosing calcium or other supplements.

Beware of fancy reactors, purifiers and filter media as they will only remove phosphate in its ionic form. This means you are not truly removing phosphate as it is still present in the form of tricalcium diphosphate. This is chemically bound in the pores of your live rock which means it requires a chemical reaction to get rid of it. Our phosphate remover physically searches for phosphate, reacts with it and successfully places it in your existing filter media.

Maintaining step 2 will also benefit your aquarium once you have reached step 4 (Coral Colour). Over populated zooxanthellae has been known to discolour or even turn corals brown. It feeds off excess nitrate and phosphate which means reducing these toxins will bring out the natural colours of your corals.

It is recommended to continuously test and maintain a balance for nitrate and phosphate throughout the life of the aquarium. Once you get your aquarium to the maintenance level dose (refer to the highlighted green & grey rows in the tables on the right), you



should only alter dosing with any change to your aquarium such as heavy feeding, additional livestock or livestock dying.

See table below for recommended levels and maintenance dosing:

Nitrate Concentration	Dosage (Per day/100L)
0.10 - 2.0 ppm	0.1 - 0.5 ml
2.0 - 10 ppm	0.5 - 1.0 ml
10 - 30 ppm	1.0 - 3.0 ml
30 - 60 ppm	3.0 - 6.0 ml
60+ ppm	6.0 ml

Phosphate Concentration	Dosage (Per day/100L)
0.03 - 0.25 ppm	0.1 - 1.0 ml
0.25 - 1.0 ppm	0.5 - 2.5 ml
1.0 - 5.0 ppm	1.0 - 5.0 ml
5.0 - 10.0 ppm	5.0 - 10.0 ml
10.0+ ppm	10.0 ml

Note: Highlighted section in green & grey on dosing chart below are the final maintenance dose

The dosing tables on our Phosphate & Nitrate Removers are only guidelines. You should find a balance for your own aquarium due to the amount of fish, coral, live rock & filtration system.

Step 3: Coral Kick Start

When you reach this step, it means you are ready to dose the 3 major supplements: Calcium, Magnesium and Alkalinity. These supplements also contain additional minor elements such as strontium, barium, bromide, fluoride, borate etc that help build your coral skeleton. This will also help pH, alkalinity and ionic availability for your corals to uptake as needed.

This stage will benefit your aquarium most; as long as step 2 (algae control) is kept constantly monitored and balanced. For this stage all you need to do is test and adjust your dose according to the parameters from the environmental choice you made in step 1.

We recommend adding supplements in small doses daily instead of large doses weekly as this helps to keep a constant ionic balance and will ensure you have minor fluctuations in ions. This will also help keep pH and alkalinity shifts to a minimum.



If daily dosing is a chore; try our automatic dosing pumps.



Step 4: Coral Colour

Assuming you have your nitrates and phosphates under control as discussed in step 2 (Algae Control), you can now start dosing with our colour program. Potassium, Iodine as well as Iron, Manganese (+ Other Trace) will enhance colours such as red, orange, green, blue, pink and purple while also increasing the natural immune system of your corals. With the addition of Foundation (coralline algae booster), your aquarium will look healthier and more vibrant.

From one enthusiast to another we would like to thank you for trying Ultimate Aquacare.

Check out our catalogue for more lighting, heating and cooling products that will help you with the maintenance of your aquarium.

Please turn over and see our logbook to help maintain the steps to success for manual or automatic dosing with the red highlighted example.



Clear Bottles: Manual & Automatic Dosing Black Bottles: Manual Dosing					Step 1: Enviro:	Step 2: Algae Control:		Step 3: Coral Kick Start:		
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
23/2/14	200	25 *C	8.3	TEST	1.025 s.g:	5 ppm	1 ppm	440 ppm	1310 ppm	170 ppm
Notes: Decreased NO3 and PO4 dose from previous dose according to new levels				Required Dose	Water Change	5 ppm to treat	1 ppm to treat	5 ppm	10 ppm	15 ppm
				Manual Dose	10 %	3 ml	2 ml	5 ml	20 ml	30 ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
12/4/14	200	25 *C	8.3	TEST	1.025 s.g:	0.20 ppm	0.04 ppm	425 ppm	1320 ppm	186 ppm
Notes: Changed filter wool and increased Calcium from 1ml /6hours to 1ml/4hours				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	10 %	ml	ml	ml	ml	ml
				Automatic Dose	N/A	1/1d	1/1d	1/4h	1/6h	2/4h
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/

	Step 4: Coral Colour:			Other	Other	Other	Other	Other
	POT	IOD	IRON	stron				
	400 ppm	0.03 ppm	0.05 ppm	6 ppm				
	5 ppm	0.03 ppm	0.05 ppm	2 ppm				
	10 ml	6drops 0.03 ml	2 ml	10 ml				
	/	N/A	N/A	N/A				
	POT	IOD	IRON	Amino				
	410 ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	1/hd	N/A	N/A	1/1d				
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					

Clear Bottles: Manual & Automatic Dosing Black Bottles: Manual Dosing					Step 1: Enviro:	Step 2: Algae Control:		Step 3: Coral Kick Start:		
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/

	Step 4: Coral Colour:			Other	Other	Other	Other	Other
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					

Clear Bottles: Manual & Automatic Dosing Black Bottles: Manual Dosing					Step 1: Enviro:	Step 2: Algae Control:		Step 3: Coral Kick Start:		
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
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	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
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	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
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	ppm	ppm	ppm					
	ppm	ppm	ppm					
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	/	N/A	N/A					

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				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
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Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/

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	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					

Clear Bottles: Manual & Automatic Dosing Black Bottles: Manual Dosing					Step 1: Enviro:	Step 2: Algae Control:		Step 3: Coral Kick Start:		
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				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
				Automatic Dose	N/A	/	/	/	/	/
Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
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	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
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	/	N/A	N/A					

Clear Bottles: Manual & Automatic Dosing Black Bottles: Manual Dosing					Step 1: Enviro:	Step 2: Algae Control:		Step 3: Coral Kick Start:		
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Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
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Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
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Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
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Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
				Manual Dose	%	ml	ml	ml	ml	ml
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Date	Ltrs	Temp	pH	Task	S.G:	NO ₃	PO ₄	CAL	MAG	ALK
				TEST	s.g:	ppm	ppm	ppm	ppm	ppm
Notes:				Required Dose	Water Change	ppm to treat	ppm to treat	ppm	ppm	ppm
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				Automatic Dose	N/A	/	/	/	/	/

	Step 4: Coral Colour:			Other	Other	Other	Other	Other
	POT	IOD	IRON					
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	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					
	POT	IOD	IRON					
	ppm	ppm	ppm					
	ppm	ppm	ppm					
	ml	ml	ml					
	/	N/A	N/A					



For more information visit:
www.ultimateaquacare.com.au

Or email:
info@ultimateaquacare.com.au



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