

Special Transformers Pty Limited

presents the



USER MANUAL



Congratulations on your purchase of a Lazy Lagoon salt water chlorinator, you can now relax and let Lazy Lagoon look after your pool.

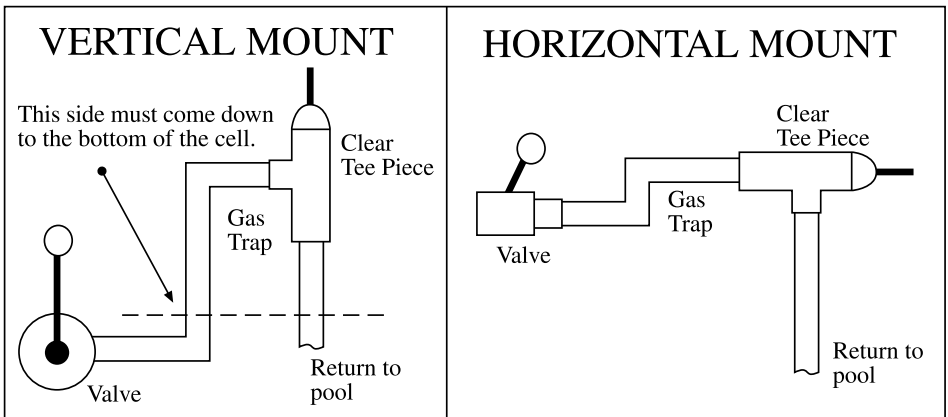
Lazy Lagoon needs only minimal attention, so if you have a pool cleaner on your pool you now have a automatic pool, you can go away on holidays and your pool will still be looking good when you return.

INSTALLATION

The cell has to be mounted in the return to pool line and to be the last piece of equipment. However it must be mounted before the return line splits to go to the pool or waterfall etc.

The clear TEE that the cell screws into has a standard 50 mm pipe sockets, they can be reduced down with 50/40 mm reducers. The cell can be mounted Vertical or Horizontal, but must have a gas trap (see Fig 1)

The power pack simply mounts on the wall or on a post and only need one screw or nail to hang on. It must be mounted close enough to the cell housing so the cell can be removed for cleaning



ADDING THE SALT

Measure the pool LENGTH, WIDTH and AVERAGE DEPTH.

E.g. 9M x 4.5M x 1.5M = 60 cubic meters.

Salt needed – 60×6 (6 is the factor for 6000PPM level) = 360 Kg

Salt is in 25 Kg bags so $360 / 25 = 14$ Bags.

ADD 11 to 12 bags to the pool with the filter running for 24 hours with vacuum hose placed at the deep end. Keep the remaining bags to add later.

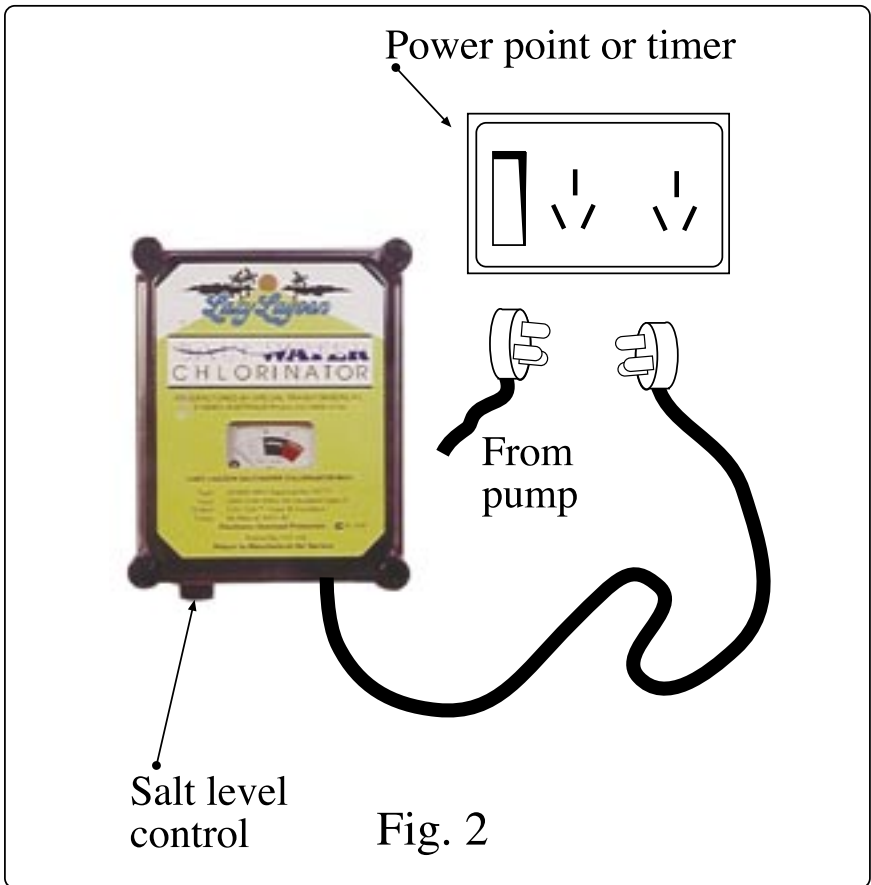


Fig. 2

When the lazy Lagoon Mk V is started up and after all the salt is dissolved and mixed through the water (about 24 hours after adding salt with the pump running), the salt meter should be reading within the normal section, which end of the normal section depends on what time of the year it is.

Winter and Summer are marked on the salt meter dial, if it is summer the meter is reading near the winter end of normal then add salt to the pool at one bag (25 Kg) a day until the meter reads near the summer mark.

The meter assumes that you are using 6000PPM salt level (our recommended level).

The reason that the reading is different in summer to winter is the water temperature.

When the unit is up and running, take a sample of your pool water to your pool shop to have it checked for water balance. For best results the pool water should be balanced. The following is a guide to acceptable levels:-

P.H	7.2 to 7.8
Total Alkalinity	80PPM to 150PPM
Calcium Hardness	60PPM to 250PPM

As sunlight can destroy chlorine very quickly it is important to add Pool Conditioner (Cyanuric Acid) to the water. This acts as a sunscreen and allows the chlorine level to be maintained continually. The level required is within 40PPM to 100PPM.

CLEANING THE CELL

The only maintenance required is the cleaning of the cell, the frequency depends on the type of pool, pebble, fiberglass etc. A cement pool would require cleaning more often than a fibre-glass pool.

After the unit has been running for a month inspect the cell through the clear Tee. If there is a thick coating of calcium on the inside of the tube it needs cleaning. If it only has a thin coating you can leave it longer.

You will be able to work out how often you need to clean you cell. (All pools are different).

As a rough guide Cement pools approximately 6 times a year.
 Fibre-glass, tiled and painted 3 to 4 times a year.

To clean the cell mix 1 part Hydrochloric acid to 8 parts water. **Add acid to water not the other way round.** Make sure the cell is immersed into the solution far enough to clean gas sensor tag at the same time. See Fig. 3.

To remove the cell from the Tee, turn anti clockwise using both hands.

When putting it back twist anti-clockwise 3 times before place it in the Tee and tightening clockwise. (this stops the lead from being kinked)

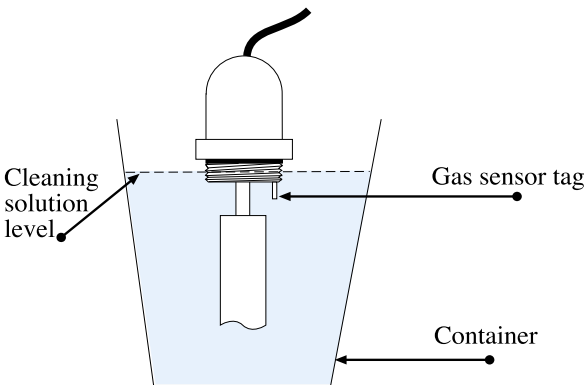


Fig. 3

TROUBLESHOOTING

Salt meter reading “add Salt” or “low normal “ in summer	ADD SALT 1 BAG A DAY (25KG) UNTIL READING CORRECT.
Chlorine residual low	NO POOL CONDITIONER
	CHECK WATER BALANCE
	METER READING LOW(Add Salt)
	RUNNING TIME TOO LITTLE
	HEAVY BATHER LOAD
PH changes too quickly	CHECK WATER BALANCE
Meter not reading but chlorine been produced.	METER NEEDS REPLACING RETURN TO SUPPLIER
Salt meter reading low but there is enough in pool	CLEAN CELL AND GAS SENSOR TAG
No reading on salt meter	POWER PACK IS IN SHUT DOWN MODE Read page 9

DO'S AND DON'Ts

DO

Check the cell periodically to see if it needs cleaning.
1 part Hydrochloric acid in 8 parts water.

DO

Keep your pool water in balance, have it checked regular.

DO

Run the chlorinator for a longer period after a heavy bather load such as a pool party.

DO

Use pool conditioner (Cyanuric acid) in your pool, it stops the sunlight breaking down the chlorine residual.

DON'T

Have your filter on recirculate because the unfiltered water can cause rubbish such as hair and lint to be caught in the anode mesh.

DON'T

Remove the screws from the cell electrodes.

DON'T

Ever poke anything into the cell, as you could damage the precious coating on the anode.

TECHNICAL SPECIFICATIONS

MAX POOL SIZE	120,000 Liters
AVERAGE RUNNING TIME Summer	8 Hours
AVERAGE RUNNING TIME Winter	3 Hours
POWER CONSUMPTION	240 Volts A.C 240 Watts
VOLTAGE TO CELL	9 Volts A.C.
CELL CURRENT	22 AMPS D.C.
ADJUSTABLE CONTROL	For all salt water to Sea Water
ELECTRONIC OVERLOAD PROTECTION	Will not allow overload
RECOMMENDED SALT LEVEL	6000 PPM - same salinity as your eyes

ELECTRONIC OVERLOAD PROTECTION

Your Lazy Lagoon MK V chlorinator is fitted with electronic overload protection. It prevents damage to the unit if overloaded with salt.

There are a few things you should know about it:-

If you overload the unit by adding salt to the skimmer box or allowing your pool cleaner to suck up salt from the bottom of your pool then the meter on the unit would start to rise rapidly and in normal circumstances would overload the rectifier, until the fuse or overload button is triggered. (By this time some damage is done)

Your Lazy Lagoon MK V has a built in sensor which in effect thinks for itself and trips the supply to the cell almost instantaneously and stays off until the next filter cycle. (That is the next cycle your timer on your pool filter switches on.). The lazy lagoon will try again and if the salt level is okay it will continue as normal with out you being aware that it protected itself.

If the Chlorinator is continually indicates an overload on the meter (keeps tripping) turn it off, then turn the salt knob (under the power pack) fully anti-clockwise. Now switch on the power again and turn the salt control knob slowly in a clockwise direction until the meter reads in the normal section on the dial. The Lazy Lagoon will be ready for normal use regardless of the salt level in the pool.

If you turn the knob too far and into overload, the chlorinator will trip again, you would then have to repeat the above instructions.

Lazy Lagoon Salt Water Chlorinators



Lazy Lagoon Salt Water Chlorinators are weatherproof, double insulated and short circuit protected. They are fully approved by the Dept of Fair Trade, approval No N16117.

Patented technology Aus 572143
N1556

Lazy Lagoon MKV is suitable for pools up to 120,000 liters. The Lazy Lagoon Chlorinator, unlike any other, is housed in a glass filled “polycarbonate” enclosure, which means that it remains unaffected by ultra violet light or rain. The enclosure is much stronger than your average metal enclosure and it will not rust.

The Lazy Lagoon is double insulated for your complete protection. There is a salt meter fitted so no test kit is required.



The Lazy Lagoon cell is also unique in that it has three replaceable parts, so your cost of maintenance and repairs is much less than other brands of Salt Chlorinators.



WARRANTY

Please complete and return to:

SPECIAL TRANSFORMERS PTY LTD

17 Antill Street, Yennora, NSW 2161.

Phone: 02 9632 9022. Fax: 02 9681 4304

P.O. Box 111, Guildford

Your Lazy Lagoon MK V is warranted against faulty workmanship and/or materials for a period of 12 months from date of purchase. Warranty excludes misuse and deliberate damage. The unit must be returned to SPECIAL TRANSFORMERS PTY LTD, or your state distributor for service. There will be no charge for parts or labour but freight must be paid by the owner.

NAME:

ADDRESS:

.....

STATE: POSTCODE:

PHONE:

INSTALLED BY:

..... DATE:

SERIAL NO.:

(Engraved on the box near the control knob)

POOL TYPE: (Circle one) –

• MARBLE • FIBREGLASS • VINYL • TILED • PAINTED • PEBBLE

Heater Installed YES / NO

Special Transformers Pty Ltd

17 Antill Street,

Yennora

NSW 2161

Phone: 02 9632 9022

Fax: 02 9681 4304

P.O. Box 111

Guildford

Email: general@stardelta.com.au