



INSTALLATION INSTRUCTIONS AND USER MANUAL V5.0

1-800-307-9011 www.sun-chlor.com

Assembling the Sun-Chlor Electrode



Step 1	Step 2	Step 3	Step 4
Position the prongs on the electrode in line with the prongs on the Sun-Chlor bottom base	Line-up the holes making sure the holes match up	Screw the titanium nuts and bolts through the holes to secure the electrode to the Sun-Chlor base	Slide the protector cover over the electrode and gently maneuver it until it is flush and secure. (If this is too tight, take some dishwashing liquid and apply around the rubber seal). You are now ready to place the Sun-Chlor in your pool

How do I know how many gallons of water there is in my pool?

- Rectangular Pool: Multiply L x W x D (average depth) x 7
- Circular Pool: Diameter x diameter x average depth x 5.9
- Oval Pool: L x W x average depth x 6.7

ADDING POOL SALT AND STABILIZER TO YOUR POOL

What type of Salt should I use?

STRICTLY use swimming pool salt that is at least 99.8% pure NaCl sodium chloride which is an evaporated, granulated, food quality, non-iodized with no additives. Salt pellets take longer to dissolve and may damage pool plaster and other surfaces in or around the pool. The correct salt and stabilizer will also better the life and performance of the Sun-Chlor. **Consult your Pool Store.**

How to add Salt and Stabilizer to your Pool

1. Make sure that you have checked your salt and stabilizer levels in the water before adding additional salt (**all existing pools DO HAVE some salt present**, except new pools).
2. Determine the amount of salt from the Pool Salt Chart on page 4. You could take a sample of the pool water to a pool store with number of gallons in the pool to determine the existing salt level.
3. The salt needs to be added slowly into the pool water for even distribution.
4. You can now add the stabilizer into the skimmer as per the Stabilizer Chart on page 4.
5. **DO NOT add salt through the skimmer.**
6. Run the pump for 24 hours for the salt to dissolve and circulate through your pool water.
7. Re-check your salt and stabilizer level once all the salt has dissolved and the pool has circulated for 24 hours.

Maintaining your pool water chemistry

SALT LEVEL _____	3,500 – 4,000 PPM
STABILIZER _____	80 – 100 PPM
CALCIUM HARDNESS _____	250 – 500 PPM
TOTAL ALKALINITY _____	80 – 120 PPM
CHLORINE _____	1.5 – 4.0 PPM
PH _____	7.2 – 7.8 PPM

It's very important to maintain the PH level of your pool.

Adding Pool Conditioner/Stabilizer (cyanuric acid – granular product)

1. Remove skimmer and pool pump baskets
2. Run the pool pump
3. Add pool conditioner slowly into the skimmer – will trap in the pool filter
4. Turn pool pump off and replace all baskets
5. **DO NOT** backwash pool for 48 hours.

NEW POOLS

After a NEW pool has been built, **do not add salt, but wait thirty (30) days** to allow the pool plaster (PebbleTec or other substance) to seal and cure.

POOL SALT CHART

Pool Gallons	10,000	12,000	14,000	16,000	18,000	20,000	22,000	24,000	26,000	28,000	30,000
0 ppm	290lbs	348lbs	406lbs	464lbs	522lbs	580lbs	638lbs	696lbs	754lbs	812lbs	870lbs
250 ppm	267lbs	320lbs	374lbs	427lbs	480lbs	534lbs	587lbs	641lbs	694lbs	747lbs	801lbs
500 ppm	244lbs	292lbs	341lbs	390lbs	439lbs	487lbs	536lbs	585lbs	634lbs	682lbs	731lbs
750 ppm	221lbs	265lbs	309lbs	353lbs	397lbs	441lbs	485lbs	529lbs	573lbs	617lbs	662lbs
1000 ppm	191lbs	230lbs	268lbs	306lbs	345lbs	383lbs	421lbs	460lbs	498lbs	536lbs	574lbs
1250 ppm	168lbs	202lbs	236lbs	269lbs	303lbs	337lbs	370lbs	404lbs	438lbs	471lbs	505lbs
1500 ppm	145lbs	174lbs	203lbs	232lbs	261lbs	290lbs	319lbs	348lbs	377lbs	406lbs	435lbs
1750 ppm	122lbs	146lbs	171lbs	195lbs	219lbs	244lbs	268lbs	292lbs	317lbs	341lbs	366lbs
2000 ppm	99lbs	118lbs	138lbs	158lbs	178lbs	197lbs	217lbs	237lbs	256lbs	276lbs	296lbs
2250 ppm	70lbs	84lbs	97lbs	111lbs	125lbs	139lbs	153lbs	167lbs	181lbs	195lbs	209lbs
2500 ppm	46lbs	56lbs	65lbs	74lbs	84lbs	93lbs	102lbs	111lbs	121lbs	130lbs	139lbs
2700 ppm	20lbs	25lbs	30lbs	30lbs	40lbs	40lbs	45lbs	50lbs	50lbs	60lbs	60lbs

ADD SALT as required to maintain a 3,500 to 4,500ppm concentration.

STABILIZER CHART

Existing Stabilizer Level	10,000	12,000	14,000	16,000	18,000	20,000	22,000	24,000	26,000	28,000	30,000
0 ppm	6.25lbs	7.50lbs	8.75lbs	10.0lbs	11.25 lbs	12.5 lbs	13.75 lbs	15.0lbs	16.3lbs	17.5lbs	18.75 lbs
10 ppm	5.40lbs	6.50lbs	7.60lbs	8.60lbs	9.75lbs	10.9 lbs	11.90 lbs	12.0lbs	14.0lbs	15.2lbs	16.25 lbs
20 ppm	4.60lbs	5.50lbs	6.40lbs	7.30lbs	8.25lbs	9.20lbs	10.0lbs	10.9lbs	11.9lbs	12.8lbs	13.75 lbs
30 ppm	3.75lbs	4.50lbs	5.26lbs	6.00lbs	6.75lbs	7.50lbs	8.25lbs	9.0lbs	9.75lbs	10.5lbs	11.75 Lbs
40 ppm	2.90lbs	3.50lbs	4.00lbs	4.60lbs	5.25lbs	5.80lbs	6.40lbs	6.90lbs	7.58lbs	8.20lbs	8.75lbs
50 ppm	2.00lbs	2.50lbs	2.90lbs	3.30lbs	3.75lbs	4.10lbs	4.60lbs	4.90lbs	5.40lbs	5.80lbs	6.25lbs
60 ppm	1.25lbs	1.50lbs	1.75lbs	2.00lbs	2.25lbs	2.50lbs	2.75lbs	3.00lbs	3.25lbs	3.50lbs	3.75lbs
70 ppm	0.40lbs	0.50lbs	0.60lbs	0.66lbs	0.75lbs	0.80lbs	0.90lbs	1.00lbs	1.10lbs	1.20lbs	1.25lbs
75 ppm	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs	0.0lbs

STABILIZER (cyanuric acid) should be maintained at an ideal range of 80ppm - 100ppm.

SUN-CHLOR AND POOL MAINTENANCE

All pools need maintenance and care during the year, especially when temperatures rise over 85 degrees.

Sun-Chlor – Cleaning Solution

The Sun-Chlor has a reverse polarity circuit that automatically switches hourly to prevent the build-up of calcium on the electrodes, thus making the unit self-cleaning up to 85% percent of the time. However, if scale does accumulate on the electrode it will affect the production of chlorine. There are 2 possible reasons:

1. **The pool chemistry is out of balance.** Take a sample of your water to a Pool Store that offers free water assessment and add the correct amount of recommended chemicals required to get your pool chemistry back to normal.
2. **Temperatures have exceeded expected highs.** Check your water chemistry and especially the chlorine level and add chlorine to bring your level to the correct level of 3.5 – 4.0 PPM.

If calcium build up is not maintained, the scale can damage the electrode. The rate at which the scale accumulates varies from pool to pool and is influenced by both the hardness of the pool water and the external weather temperature.

ELECTRODE - CLEANING SOLUTION:

1. Acquire a 5 gallon bucket with a sealing lid
2. **NEVER** add water to acid – **ALWAYS** add acid to water
3. To measure the solution:
 - a. Measure one cup of pool acid to 8 cups of water
4. Place the Sun-Chlor over the bucket making sure that the electrode is submerged into the solution
5. Leave until all scale dissolves and the electrode is clean (20 – 30 minutes)
6. The solution can be re-used for up to 8 times
7. Make sure that the solution is securely sealed and stored in SAFE cool place.

KEEP OUT OF REACH OF CHILDREN
Caution: Eye irritant, avoid contact with eyes

SOLAR PANEL MAINTENANCE:

1. Keep the solar panel free from dust and debris – can be hosed down
2. Remove the Sun-Chlor from the pool if children are active in the pool
3. To continue making chlorine:

- a. Acquire a 5 gallon bucket
- b. Add pool water in the bucket
- c. Place the bucket in a sunny area – away from any distractions
- d. Steady the Sun-Chlor over the bucket – it will continue making chlorine
- e. Replace water in bucket back into the pool, once the Sun-Chlor is safe from harm.

SUN-CHLOR SAFETY INSTRUCTIONS:

1. **DO NOT** - place heavy objects on the solar panel
2. **DO NOT** - let anyone use the Sun-Chlor as a toy
3. **DO NOT** – permit children to play with this product
4. **DO NOT** – remove the electrode protective cover, unless for cleaning purposes
5. **REMOVE** – the Sun-Chlor unit if it is making too much chlorine
6. For further information or questions. **Call (800) 307-9011.**

GENERAL POOL CHEMISTRY MAINTENANCE

WEEKLY SERVICE:

1. **pH Level:** Test your pools pH level. Always use liquid acid/muriatic acid (hypochloric acid) in arid geographic areas
 - **Recommended range: 7.2 – 7.8**
2. **Total Alkalinity:**
 - **Recommended range: 80 – 120 PPM**
3. **Chlorine:** If the level is below the recommended range, check that the Sun-Chlor electrode does not have calcium scale build-up. In conditions higher than 95degrees, it may be necessary to add a few chlorine tablets. Place these in your floater. Further, make sure that the Sun-Chlor is not being restricted by too much shade – secure the unit in a sunny area that gets at least 8 hours of sun a day.
 - **Recommended range: 1.5 – 4.0 PPM**
 - Above 4.0ppm may cause excessive corrosion of metal components and possibly cause damage to associated pool equipment.

MONTHLY SERVICE:

1. **Salt Level:** If you have a cartridge filter, it is unlikely that you will need to replace salt as it does not evaporate. However, if you have a filter that requires back-washing, the salt will be lost during the back-wash cycle. Therefore, it is important to test your salt level monthly.
 - **Recommended range: 3,500 – 4,000 PPM**

These ideal ranges are the recommendations of NSPF (National Swimming Pool Foundation). All pool testing should be with a reliable test kit. If necessary, take a sample of the pool water to a pool store – most of them offer free testing.

MAINTENANCE
FOR SELF-CLEANING DEVICE
(REVERSE-POLARITY)

With the new device of the reverse-polarity, maintenance becomes minimal. Should there be a calcium scale build-up or gel forming debris, follow the instructions below.

1. Test your water chemistry as follows that:

SALT LEVEL _____ 3,500 – 4,000 PPM

STABILIZER _____ 80 – 100 PPM

CALCIUM HARDNESS _____ 250 – 500 PPM

TOTAL ALKALINITY _____ 80 – 120 PPM

CHLORINE _____ 1.5 – 4.00 ppm

PH _____ 7.2 – 7.8 PPM

It is VERY important to maintain the PH level of your pool.

If the water chemistry has caused the calcium build-up, follow the Cleaning Instructions on Page 5 of the User Manual.

Or call us: **1-800-307-9011**

