

ATECPOOL PREMIUM SALT CHLORINATOR FOR ABOVE GROUND POOL

MODEL ATSGE SERIES

(ATSGE10, ATSGE15, ATSGE20, ATSGE30)



Table of Contents

IMPORTANT SAFETY INSTRUCTIONS:	1
HOW IT WORKS:	2
WATER CHEMISTRY:	3
ADDING SALT:	4
INSTALLATION:	8
INSTALL THE CONTROL:	8
SYSTEM OVERVIEW:	8
INSTALL THE CELL:	9
OPERATION:	11
GENERAL MAINTENANCE:	12
WINTERIZING:	13
TROUBLESHOOTING:	13
ONE YEAR LIMITED WARRANTY:	14

IMPORTANT SAFETY INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be exercised, including the following.

Cautions:

Please note, the total working hours for the ATSGE Series should be less than 8 hours total per day. If you are using a variable speed pump for 24 hours a day be sure to adjust the chlorine output to 25-30%. If the pump is only running 10 hours per day adjust the chlorine output between 60-80%.

You can use this calculation to calculate the appropriate chlorine output for your pool, suggest at 6 hours per day.

Pump running 24(Hours a day) *25% (Chlorine Output) =6hr (cell run time per day at 25%).

Pump running 20(Hours a day) *30% (Chlorine Output) =6hr (cell run time per day at 30%).

Pump running 15(Hours a day) *40% (Chlorine Output) =6hr (cell run time per day at 40%).

Pump running 12(Hours a day) *50% (Chlorine Output) =6hr (cell run time per day at 50%).

Pump running 8(Hours a day) *75% (Chlorine Output) =6hr (cell run time per day at 75%).

Start the VS pump on a low speed and kick the speed up until the salt system works.

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READ AND FOLLOW ALL INSTRUCTIONS

Disconnect all AC power during installation.

- Do not permit children to use this product.
- A green-colored screw is located inside the wiring compartment, against the back panel. To reduce the risk of electric shock this terminal must be grounded, by this means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying the equipment.
- One bonding lug for US models (two for Canadian models) is provided on the external surface. To reduce the risk of electric shock, connect the local common bonding grid in the area of the swimming pool, spa, or hot tub to these terminals with an insulated or bare copper conductor not smaller than 8 AWG US/6 AWG Canada.
- All field-installed metal components such as rails, ladders, drains, or other similar hardware located within 10 feet (3 meters) of the pool, spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than 8 AWG US/ 6 AWG Canada.

HOW IT WORKS

The ATSGE Series is an automatic salt chlorinator for pool & spa sanitation designed specifically for above ground pools. The salts or minerals, in roughly the same solution as a tear drop, pass through the electrolytic plates in the chlorinator cell to form chlorine which kills all the contaminants within the pool and prevents bacteria and algae from forming.

The ATSGE Series is designed to handle the purification needs of an average residential swimming pool up to 40,000 gallons (151,416 liters). The actual amount of chlorination depending upon the number of swimmers, rainfall, air temperature, water temperature, pool's exposure to sunlight, pool's surface, and cleanliness.

The ATSGE Series is not used to generate Bromine. Therefore, it is necessary to check if your pool has natural stone as coping or decking, and ask installation specialist for the maintenance of the stone before installing the ATSGE Series.

WATER CHEMISTRY

Salt	3200 to 4000 ppm
Free chlorine	1.0 to 3.0 ppm
pH	7.2 to 7.6
Cyanuric Acid (Stabilizer)	50 to 100 ppm
Total Alkalinity	80 to 120 ppm
Calcium Hardness	200 to 400 ppm
Metals	0 ppm
Saturation Index	-.2 to .2

The saturation indexes

- (Si) relates to the calcium and alkalinity in the water and is an indicator of the pool water's "balance". Your water is properly balanced if the Si is $0 \pm .2$.
- If the Si is below -0.2, the water is corrosive and plaster pool walls will be dissolved into the water.
- If the Si is above +0.2, scaling and staining will occur.
- Use the chart on page 5 to determine the saturation index.

$$Si = pH + Ti + Ci + Ai - 12.1$$

°C	°F	Ti	Calcium Hardness	Ci	Total Alkalinity	Ai
12	53	.3	75	1.5	75	1.9
16	60	.4	100	1.6	100	2.0
19	66	.5	125	1.7	125	2.1
24	76	.6	150	1.8	150	2.2
29	84	.7	200	1.9	200	2.3
34	94	.8	250	2.0	250	2.4
39	103	.9	300	2.1	300	2.5
			400	2.2	400	2.6
			600	2.4	600	2.8
			800	2.5	800	2.9

How to use:

Measure pool pH, temperature, calcium hardness, and total alkalinity. Use the chart above to determine Ti, Ci, and Ai from your measurements. Insert values of pH, Ti, Ci and Ai into the above equation. If Si equals 2 or more, scaling and staining may occur. If Si equals -.2 or less corrosion or irritation may occur.

SALT LEVEL

	Gallons (pool size feet)	Liters (pool size in meters)
Rectangular	Length×Width×Average Depth×7.5	Length×Width×Average Depth×1000
Round	Diameter×Diameter×Average Depth×5.9	Diameter×Diameter×Average Depth×785
Oval	Length×Width×Average Depth×6.7	Length×Width×Average Depth×893

- The ideal salt level is between 3000-4000 ppm. Calculate the number of gallons in the pool and add salt according to the chart above.
- A LOW salt level will reduce the efficiency of the ATSGE Series and result in low chlorine production...
- Excessively HIGH salt levels will cause the ATSGE Series to shut down, making pool water unsafe for swimmers. LOW salt levels can cause the ATSGE Series to not operate efficiently, causing the same.

ADDING SALT

Only sodium chloride (NaCl) that is 99% pure. It is also acceptable to use water conditioning salt pellets; however, it will take longer for them to dissolve. **NEVER USE** rock salt, salt with more than 1% yellow prussiate of soda (sodium ferrocyanide), salt with more than 1% of anti-caking additives, or iodized salt.

1. Measure the pre-existing salinity of your pool. Previous use of liquid chlorine may have created a residual level of salt in your pool.
2. Determine how much salt is needed from the pool volume calculator and salinity.
3. Keep the circulating pump on.
4. Distribute the determined amount of salt evenly around the pool. To avoid clogging the filter or damaging the Control Box and pump do not add salt through the skimmer. Brush the bottom of the pool to help dissolve the salt.
5. The readout on the chlorine generator may fluctuate until the salt is fully dissolved.

If added incorrectly, immediately turn off the ATSGE Series for 24 hours with the pump and filter operating, this will help to evenly distribute the salt. The salt display may take up to 24 hours to respond to the change in salt concentration.

The only way to lower the salt concentration is to partially drain the pool and refill it with fresh water.

POUNDS AND (Kg) OF SALT NEEDED FOR 3200 PPM

POUNDS and (Kg) OF SALT NEEDED FOR 3200 PPM

Current salt level ppm	Gallons and (Liters) of Pool/Spa water																
	8,000 (30,000)	10,000 (37,500)	12,000 (45,000)	14,000 (52,500)	16,000 (60,000)	18,000 (67,500)	20,000 (75,000)	22,000 (82,500)	24,000 (90,000)	26,000 (97,500)	28,000 (105,000)	30,000 (112,500)	32,000 (120,000)	34,000 (127,500)	36,000 (135,000)	38,000 (142,500)	40,000 (150,000)
0	213 (97)	267 (121)	320 (145)	373 (170)	427 (194)	480 (218)	533 (242)	587 (267)	640 (291)	693 (315)	747 (339)	800 (364)	854 (388)	907 (412)	960 (436)	1013 (460)	1067 (484)
200	200 (91)	250 (114)	300 (136)	350 (159)	400 (182)	450 (205)	500 (227)	550 (250)	600 (273)	650 (296)	700 (318)	750 (341)	800 (363)	850 (385)	900 (408)	950 (430)	1000 (453)
400	187 (85)	233 (106)	280 (127)	327 (148)	373 (170)	420 (191)	467 (212)	513 (233)	560 (255)	607 (276)	653 (297)	700 (318)	747 (339)	793 (360)	840 (382)	887 (403)	933 (424)
600	173 (79)	217 (98)	260 (118)	303 (138)	347 (158)	390 (177)	433 (197)	477 (217)	520 (236)	563 (256)	607 (276)	650 (297)	693 (317)	737 (337)	780 (358)	823 (378)	867 (398)
800	160 (73)	200 (91)	240 (109)	280 (127)	320 (145)	360 (164)	400 (182)	440 (200)	480 (218)	520 (236)	560 (255)	600 (273)	640 (291)	680 (310)	720 (328)	760 (346)	800 (364)
1000	147 (67)	183 (83)	220 (100)	257 (117)	293 (133)	330 (150)	367 (167)	403 (183)	440 (200)	477 (217)	513 (233)	550 (250)	587 (267)	623 (283)	660 (300)	697 (317)	733 (333)
1200	133 (61)	167 (76)	200 (91)	233 (106)	267 (121)	300 (136)	333 (152)	367 (167)	400 (182)	433 (197)	467 (212)	500 (227)	533 (243)	567 (258)	600 (274)	633 (289)	667 (304)
1400	120 (55)	150 (68)	180 (82)	210 (95)	240 (109)	270 (123)	300 (136)	330 (150)	360 (164)	390 (177)	420 (191)	450 (205)	480 (218)	510 (232)	540 (246)	570 (259)	600 (263)
1600	107 (48)	133 (61)	160 (73)	187 (85)	213 (97)	240 (109)	267 (121)	293 (133)	320 (145)	347 (158)	373 (170)	400 (182)	427 (195)	453 (207)	480 (219)	507 (231)	533 (243)
1800	93 (42)	117 (53)	140 (64)	163 (74)	187 (85)	210 (95)	233 (106)	257 (117)	280 (127)	303 (138)	327 (148)	350 (159)	373 (169)	397 (180)	420 (190)	443 (201)	467 (211)
2000	80 (36)	100 (45)	120 (55)	140 (64)	160 (73)	180 (82)	200 (91)	220 (100)	240 (109)	260 (118)	280 (127)	300 (136)	320 (145)	340 (154)	360 (163)	380 (172)	400 (181)
2200	67 (30)	83 (38)	100 (45)	117 (53)	133 (61)	150 (68)	167 (76)	183 (83)	200 (91)	217 (98)	233 (106)	250 (114)	267 (121)	283 (129)	300 (137)	317 (144)	333 (152)
2400	53 (24)	67 (30)	80 (36)	93 (42)	107 (48)	120 (55)	133 (61)	147 (67)	160 (73)	173 (79)	187 (85)	200 (91)	213 (98)	227 (104)	240 (110)	253 (117)	267 (123)
2600	40 (18)	50 (23)	60 (27)	70 (32)	80 (36)	90 (41)	100 (45)	110 (50)	120 (55)	130 (59)	140 (64)	150 (68)	160 (73)	170 (77)	180 (81)	190 (86)	200 (90)
2800	27 (12)	33 (15)	40 (18)	47 (21)	53 (24)	60 (27)	67 (30)	73 (33)	80 (36)	87 (39)	93 (42)	100 (45)	107 (48)	113 (51)	120 (54)	127 (57)	133 (60)
3000	13 (6)	17 (8)	20 (9)	23 (11)	27 (12)	30 (14)	33 (15)	37 (17)	40 (18)	43 (20)	47 (21)	50 (23)	53 (24)	57 (26)	60 (27)	63 (28)	67 (30)
3200	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal
3400	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3600+	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute

STABILIZER (CYANURIC ACID)

- Always test for stabilizer (cyanuric acid) level, when testing for salt. This test should be done at least once per month. Use the chart below to determine how much stabilizer must be added to raise the level to 80 ppm.

POUNDS and (Kg) OF STABILIZER (CYANURIC ACID) NEEDED FOR 80 PPM																	
Current Stabilizer Level (ppm)	Gallons and (Liters) of Pool/Spa water																
	8,000 (30000)	10,000 (37500)	12,000 (45000)	14,000 (52500)	16,000 (60000)	18,000 (67500)	20,000 (75000)	22,000 (82500)	24,000 (90000)	26,000 (97500)	28,000 (105000)	30,000 (112500)	32,000 (120000)	34,000 (127500)	36,000 (135000)	38,000 (142500)	40,000 (150000)
0 ppm	5.3 (3.6)	6.7 (4.3)	8.0 (3.6)	9.4 (4.3)	10.7 (4.9)	12.0 (5.4)	13.4 (6.1)	14.7 (6.7)	16.0 (7.3)	17.3 (7.9)	18.7 (8.5)	20.0 (9.1)	21.3 (9.7)	22.7 (10.3)	24.0 (10.9)	25.3 (11.5)	26.7 (12.0)
10 ppm	4.7 (3.2)	5.8 (3.7)	7.0 (3.2)	8.2 (3.7)	9.4 (4.3)	10.5 (4.9)	11.7 (5.3)	12.9 (5.9)	14.0 (6.4)	15.2 (6.9)	16.4 (7.4)	17.2 (8.0)	18.7 (8.5)	19.8 (9.0)	21.0 (9.5)	22.2 (10.0)	23.3 (10.5)
20 ppm	4.0 (2.7)	5.0 (3.2)	6.0 (2.7)	7.0 (3.2)	8.0 (3.6)	9.0 (4.2)	10.0 (4.5)	11.0 (5.0)	12.0 (5.4)	13.0 (5.9)	14.0 (6.4)	15.0 (6.8)	16.0 (7.2)	17.0 (7.7)	18.0 (8.1)	19.0 (8.6)	20.0 (9.0)
30 ppm	3.3 (2.3)	4.2 (2.7)	5.0 (2.3)	5.9 (2.7)	6.7 (3.0)	7.5 (3.4)	8.4 (3.8)	9.2 (4.2)	10.0 (4.5)	10.8 (4.9)	11.7 (5.2)	12.5 (5.6)	13.3 (6.0)	14.2 (6.3)	15.0 (6.7)	15.8 (7.1)	16.7 (7.5)
40 ppm	2.7 (1.8)	3.3 (2.1)	4.0 (1.8)	4.7 (2.1)	5.4 (2.4)	6.0 (2.7)	6.7 (3.0)	7.4 (3.3)	8.0 (3.6)	8.7 (3.9)	9.3 (4.2)	10.0 (4.5)	10.7 (4.8)	11.3 (5.1)	12.0 (5.4)	12.7 (5.7)	13.3 (6.0)
50 ppm	2.0 (1.4)	2.5 (1.6)	3.0 (1.4)	3.5 (1.6)	4.0 (1.8)	4.5 (2.0)	5.0 (2.3)	5.5 (2.5)	6.0 (2.7)	6.5 (2.9)	7.0 (3.2)	7.5 (3.4)	8.0 (3.6)	8.5 (3.9)	9.0 (4.1)	9.5 (4.3)	10.0 (4.5)
60 ppm	1.3 (0.9)	1.7 (1.1)	2.0 (0.9)	2.3 (1.1)	2.7 (1.2)	3.0 (1.4)	3.3 (1.5)	3.7 (1.7)	4.0 (1.8)	4.3 (2.0)	4.7 (2.1)	5.0 (2.3)	5.3 (2.4)	5.7 (2.6)	6.0 (2.7)	6.3 (2.8)	6.7 (3.0)
70 ppm	0.7 (0.45)	0.8 (0.54)	1.0 (0.45)	1.2 (0.54)	1.4 (0.64)	1.5 (0.68)	1.7 (0.77)	1.8 (0.82)	2.0 (0.91)	2.2 (1.0)	2.3 (1.1)	2.5 (1.2)	2.7 (1.2)	2.8 (1.3)	3.0 (1.3)	3.2 (1.4)	3.3 (1.5)
80 ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

POLYMERS

- It is advised to use polymers (commonly sold as poly algaecide) when using salt water sanitizing systems. The poly algaecide is sold in 30% and 60% concentrations.
- Application rate is 1 quart of Poly30 (or ½ quart of Poly 60) per 15,000 gallons (60,000 liters) of pool water, per month. Apply directly in front of the return jet.

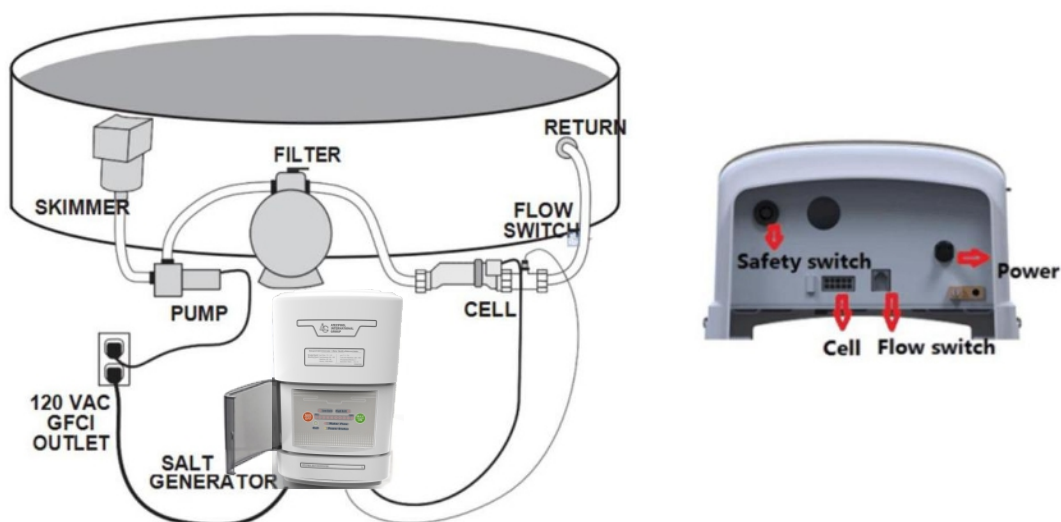
INSTALLATION

- The ATSGE Series electrolytic cell and flow detection switch will be damaged by freezing water, similar to other pool components that require proper winterization. In areas of the country that experience severe or extended periods of freezing temperatures, be sure to drain all water from the pump, filter, supply line, and return line prior to freezing conditions.
- The electronic control is capable of withstanding any winter weather and should not be removed.

1. INSTALL THE CONTROL

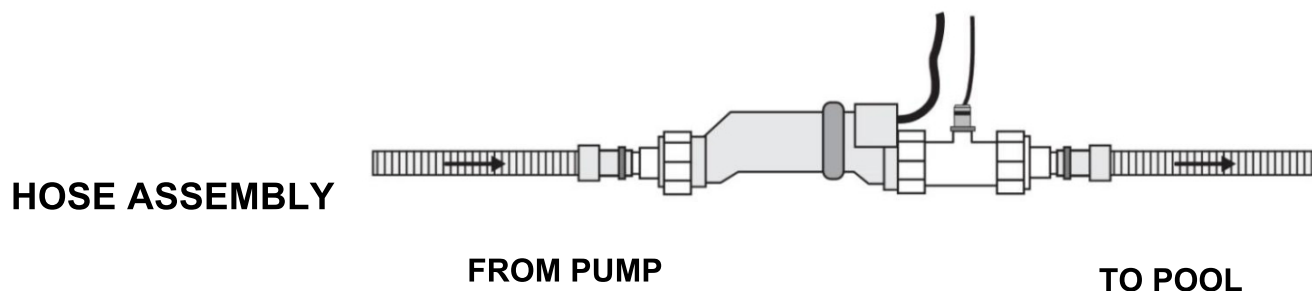
- The ATSGE Series control unit must be mounted a minimum of 6 ft. (2 meters) horizontal distance (or more if local codes require) away from the pool.
- The control is designed to mount vertically on a flat surface with the knockouts facing downward and not to block the four sides of the control.
- Do not mount the ATSGE Series in a panel or tightly enclosed space.

2. SYSTEM OVERVIEW

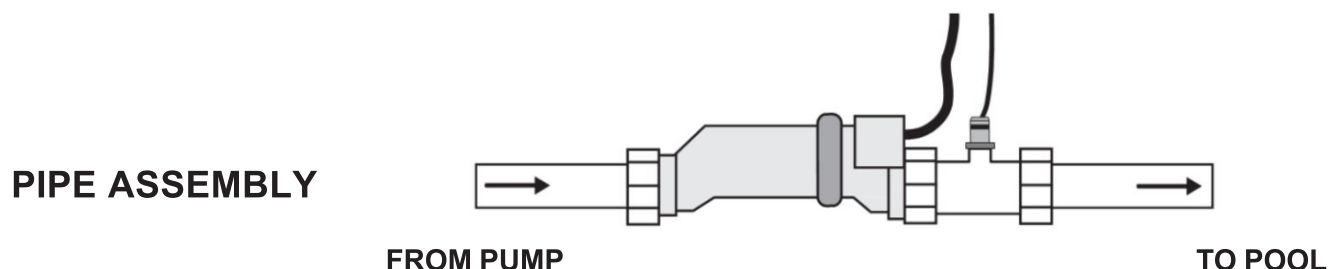


3. INSTALL THE CELL

- Install the cell and flow switch as shown **below**, with the **flow switch after the cell**. When **using the hose adaptors**, **remove the O-ring from the pipe union tailpiece** and install them in the hose tailpiece. Make sure to tighten all the union nuts **BY HAND ONLY** for a watertight seal.



The cell for the ATSGE application is installed vertically. Adapt an elbow to connect on the water return.



WIRING

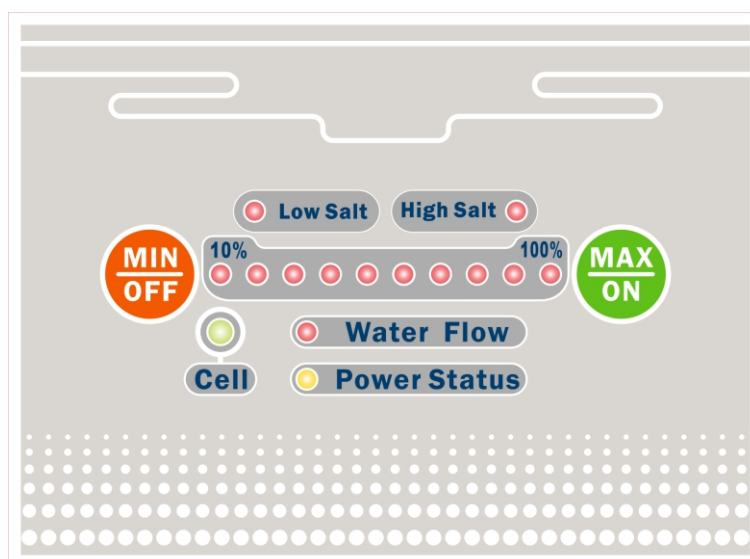
- The Power must be turned off before performing any wiring. Be sure to follow local and NEC electrical codes. To provide safe operation, the ATSGE unit must be properly grounded and bonded.

INPUT POWER

- Wire the ATSGE unit to the **LOAD SIDE** of the filter pump timer. **It is very important that the ATSGE unit is powered only when the pump is running.**

ELECTROLYTIC CELL AND FLOW SWITCH

- The electrolytic cell and flow switch cables have connections on the ends that plug into the ATEC-CELL for easy attachment and removal. See pic attached above. The ATSGE Series above ground Salt Chlorinator has an Auto control system with very simple operation.
- **DESIRED OUTPUT LEVEL:** There are 10 LEDS, each LED equals 10%. Chose the “desired level %” by pressing Min to decrease or Max to increase. The ATSGE will produce chlorine according to the “Desired Level %” adjustment setting for the entire filter cycle.
- **MAX:** Press Max to increase the level up to 100%, when you have an abnormally high bather load, heavy rainfall, cloudy water conditions, or any other condition which requires that a large amount of purification be introduced. Push Max until all 10 LEDS ARE ON. This electronically “Max chlorinates” (shocks) the water for 24 hours (filter pump must be on during this time) or until the power has been turned off, whichever comes first. **At the end of the Max chlorination period, be sure to push Min to decrease level back to the desired level position.**
- **MIN:** Press Min to decrease the desired level. When all the 10 LEDs are OFF, it will prevent the ATSGE unit from energizing the electrolytic cell. In this position there is no chlorine generation.
- **LOW SALT:** When flashing, the salt level is low and the ATSGE unit generating at low efficiency. When illuminated steady, the salt level is too low and the ATSGE has shut down.
- **Cell check:** When the cell is working, the green light is on.



INDICATOR LED

- **POWER STATUS:** When the LED is on the ATSGE unit has input power.
- **WATER FLOW:** When illuminated, the flow switch has detected no flow and the ATSGE is NOT generating chlorine. A flashing LED indicates that the flow is restored, but there will be a 60 seconds delay before generation is reestablished.
- **LOW SALT:** When flashing, the salt level is low (below 2500 ppm) and the ATSGE is generating at low efficiency. When illuminated steady, the salt level is too low and the ATSGE has shut down.
- **Note:** Before adding large quantities of salt, it is recommended to have your salt level professionally checked.
- **Note:** If the Salt level is at the correct level but the LOW SALT LEVEL is still on, the cell must be replaced.
- **HIGH SALT:** When illuminated the salt level is around 4500 ppm. When illuminated steady, salt level is higher than 5400 ppm and the ATSGE has shut down. The pool water must be diluted with fresh water before operation is restored.

OPERATION

FOUR factors that you can control which directly contribute to the amount of chlorine the ATSGE will generate:

1. Filter time each day (hours)
2. The amount of salt in the pool
3. The "Desired Output Level %" setting
4. Stabilizer level in the water.

To find the optimum "Desired Output Level %" setting, start at a fairly higher setting and work downward. It will take a few days of adjustments to find the ideal setting for your pool. Once determined, it should only need minor adjustments. The ATSGE control will not produce chlorine at temperatures below 50°F. If your pool water is colder than 50°F, you must chlorinate manually.

1.GENERAL MAINTAINING

- To maintain maximum performance, it is recommended that you remove and visually inspect the cell every 3 months.
- The ATSGE electrolytic cell has a self-cleaning feature incorporated into the electronic control's logic. In most cases this self-cleaning action will keep the cell working at optimum efficiency. In areas where there is hard water (high calcium and/or mineral content) and in pools where the water chemistry has gotten "out of balance", the cell may require periodic cleaning every 3 months. After cleaning, if the LOW SALT is always ON even with a go salt level, the cell may be worn and require replacement.

SERVICING AND CLEANING THE CELL:

- Turn off power to the ATSGE unit before removing the CELL.
- Once removed, check the cell and inspect for scale buildup (light colored crusty or flaky deposits) on the plates and for any debris that has passed through the filter and gotten caught on the plates.
- If no deposits are visible, reinstall. If deposits are seen, use a high-pressure garden hose and try to flush the scale off. If this is not successful, use a plastic or wood tool to scrape deposits from the plates. **DO NOT USE A METAL SCRAPER AS THIS WILL SCRATCH THE FINISH AND DAMAGE THE PLATES.** Note that a buildup on the cell indicates that there is an unusually high calcium level in the pool (old pool water is usually the cause).

If this is not corrected, you will need to clean the cell more frequently. The simplest way to avoid this is to bring the pool chemistry to recommended levels, as specified on page 5.

MILD ACID WASHING:

Use only in severe cases where flushing and scraping will not remove the majority of deposits. To acid wash:

- Turn off power to ATSGE unit.
- Remove cell from piping.
- In a clean plastic container, carefully mix a 4:1 solution of water to muriatic acid (one gallon of water to one quart of muriatic acid).

NOTE: Always pour acid into water (Never pour water into acid) Be sure to wear protective glasses, clothing and chemical resistant gloves.

The level of the solution in the container should just reach the top of the cell so that the wire harness compartment is NOT submerged. It may be helpful to coil the wiring before immersing the cell.

The cell should soak for FIVE minutes, then rinsed with a high-pressure garden hose.

If any deposits are still visible, repeat soaking and rinsing.

Replace cell and inspect again periodically.

2.WINTERIZING

- The ATSGE electrolytic cell and flow detection switch will be damaged by freezing water, similar to other pool components that require proper winterization. In areas of the country that experience severe or extended periods of freezing temperatures, be sure to drain all water from the pump, filter, and supply and return lines prior to freezing conditions.
- The electronic control can withstand any winter weather and should not be removed.

TROUBLESHOOTING

Low or no residual chlorine in pool

1. Increase Output Level. This is often required seasonally with increasing temperatures
2. Increase run time to at least 1 hour per 10° ambient temp.
3. Activate Super Chlorination mode or chemically shock pool.
4. Remove Cell from plumbing, then inspect and clean.
5. Cold water (below 50F) can cause the ATSGE unit to stop generating.
6. Low pH oxidizes chlorine quickly, making it difficult to maintain desired chlorine levels. Adjust pH levels to re-balance water.
7. Warm pool water increases chlorine demand—increase Desired Output Level% or filter run time.
8. ATEC-CELL switch in OFF position.
9. Desired Output Level% adjustment setting is too low.

“No Flow” LED illuminated or flashing

If there is adequate flow and the LED is still on, verify that the arrows on the flow switch are pointing in the direction of flow.

Low Salt / High Salt LED is on:

Verify salinity and Cell Version in the status Menu, if this doesn't work, ensure correct connection, clean cell if necessary.

Replace the new cell

Remove and inspect the cell for scale. If the cell is scaled, follow the directions on page 12 for cell cleaning. If the pool has the proper amount of salt and the LOW SALT LED is still illuminated, the cell may be depleted and needs to be replaced.

Water leak

Ensure O-Rings are clean and in good condition.
Inspect threads for damage, ensure that each will screw back on without resistance.

No Power

Check fuses on the Control Module.
Have a professional test the input power, ensure correct wiring configuration & connections.
Make sure 120V AC input power is connected to the control.

Model: ATSGE Series

FOR POOL 37.500 liters / 150.000 liters

1 YEAR LIMITED WARRANTY

WARRANTY

The ATSGE unit is warranted to be free from defects in materials and workmanship, under normal use and non-commercial application, for ONE (1) year, per the schedule below. Proof of purchase is required. This limited warranty is extended exclusively to the original purchaser of the ATSGE system and is non-transferable.

One (1) year limited warranty schedule for the ATSGE and its components.

During year one:100%

TERMS OF SALE: If, after receiving this item you discover that it was not the one you wanted, simply return it for a full refund within 30 days. You will have to pay for the return shipping charges. Refund is void if you have installed, used or damaged the item in any way. Item must be returned with its original box, packing materials and instructions (if applicable) in the same perfect new condition. Cleared Payment via PayPal must be received within 3 days of transaction and prior to shipping.

For Commercial use (any pool that is not for private single-family use, or the use of which is subject to regulation), parts are warranted against defect for a period of 2 months.

This limited warranty is subject to the following terms, conditions, and exclusions:

1. To obtain the benefits of this warranty, contact the warranty department for troubleshooting.
2. Should a defect in any item or part covered by the warranty become evident during the warranty's term, Products will at its sole discretion repair or replace such item or part. Products reserves the right to replace defective parts with new or refurbished parts. This warranty does not include the cost of labor or transportation charges for equipment or component parts to or from Products, or the removal, reinstallation, or any such costs incurred in obtaining warranty replacements or repair.
3. This warranty extends to the original retail purchaser and original installation site only, beginning at the original date of purchase, and is non-transferrable.
4. The warranty contains the following exclusions. O-Rings, rubber gaskets, electrical fuses, and circuit-breaker components are normal replacement items subject to wear and are excluded from the warranty. Product discoloration, or any other cosmetic or superficial damage or deterioration, regardless of its cause, is not covered by this warranty. The warranty is not applicable to problems arising from circumstances outside the control of Products, including, but not limited to the following:
 - A. Damage or premature wear due to improper pool chemistry, and failure to maintain pool water chemistry in accordance with the recommendations contained in the owner's manual.
 - B. Damage due to improper installation or connection to improper voltages, including materials and workmanship supplied by others.
 - C. Damage due to negligence or failure to properly maintain equipment, including the maintenance of clean and tight electrical connections.
 - D. Damage due to improper service, as well as unauthorized equipment modifications and use of non-genuine replacement parts.
 - E. Damage due to misapplication, misuse, abuse, overuse the cell lifetime (over 10 hours per day) or failure to operate equipment as specified in the owner's manual.
 - F. Problems resulting from tampering, accident, fire, flood, freezing, lightning, insects, or other natural elements, or other circumstances beyond the control of Products.
 - G. Damage due to over-tightening of threaded components or excessive pressure or stress.
 - H. Material supplied or workmanship performed by others in the process of installation.

The liability of Products shall not exceed the repair or replacement of defective items or parts under the referenced limited warranty terms. There are no implied warranties of merchantability or fitness for a particular purpose that apply to this equipment. Under no circumstances shall Products, its agents, employees, and affiliates be liable for any loss, damage, injury, inconvenience or loss of time, incidental expenses such as labor and material charges, or any other incidental, or consequential damages, which may result from the use, installation, removal, or reinstallation of its equipment and parts.

This warranty is valid only in the United States of America. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This warranty supersedes all previous publications. Any dispute between the original purchaser and Products will be settled by binding arbitration, conducted in Mecklenburg County, NC, under the rules of the American Arbitration Association.

Disclaimer: This limited warranty is the entire warranty. No other warranties apply, expressed or implied. This limited warranty gives you specific legal rights, which varies accordingly from state to state. Under no circumstances shall the manufacturer or authorized agents/installers be responsible for consequential, special, or incidental damage(s) of any kind, including but not limited to personal injury. Property damage or damage to or loss of equipment. The manufacturer or agents/installers are not liable for any other expenses that may be encountered during installation or servicing. Authorized agents/installers may charge a trip fee for warrantable service work.

Some states do not allow the exclusion of limitations of incidental or consequential damages.

Listed exclusions and limitations may not apply to you.

During the full coverage warranty process, we cover all replacements, repairs and labor cost. The customer is responsible for shipping to and from our warranty center.

Email: info@atecpool.com