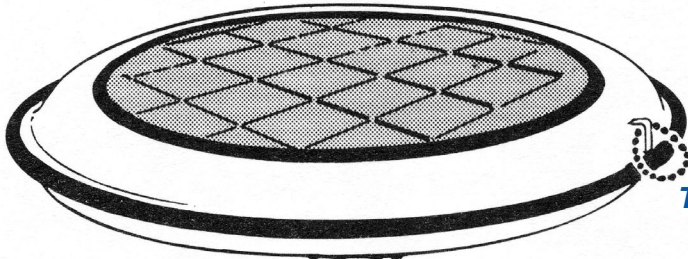




OPERATING INSTRUCTIONS

SOLAR PANEL



BUMPER

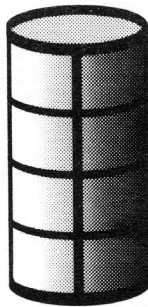
TETHERING CHAIN



SPRING ELECTRODE



MINERAL ELECTRODE



SCREEN CAGE



PUSH / PULL RETAINER

The Concept

THE **floatron** IS THE ORIGINAL PORTABLE AND SOLAR POWERED WATER PURIFIER WITH THE PRIMARY FUNCTION OF LIMITING MICROORGANISM GROWTH IN BODIES OF WATER. ADDITIONALLY, THE **floatron** SOFTENS YOUR WATER BY COLLECTING UNDESIRABLE HARD WATER MINERALS. ALGAE AND BACTERIA CONTROL IS POSSIBLE BY THE INTRODUCTION OF MINERAL IONS, OR ATOMS, INTO THE WATER BY THE PROCESS CALLED SOLAR IONIZATION. AS SUNLIGHT STRIKES THE SOLAR PANEL, A HARMLESS, LOW POWER ELECTRICAL CURRENT IS GENERATED WHICH ENERGIZES A SPECIALLY ALLOYED COPPER (MINERAL) ELECTRODE BELOW WATERLINE. AS WATER FLOWS BY THE ELECTRODES, THE CHARGED IONS ARE ACCEPTED AND TRANSPORTED TO SURROUNDING WATER. WHILE THESE MINERAL IONS ARE SAFE AND NON-TOXIC TO YOU, MICROSCOPIC LIFE FORMS CANNOT SURVIVE UNDER THEIR INFLUENCE. UNLIKE CHLORINE, WHICH LOSES POTENCY QUICKLY, THE BENEFICIAL IONS REMAIN EFFECTIVE FOR WEEKS, AND DO NOT EVAPORATE OUT.

SOME CONTAMINANTS IN SWIMMING POOLS ARE NOT AFFECTED BY MINERALS, SUCH AS OILS, LOTIONS, ETC, AND TEND TO CLOUD THE WATER. THEREFORE, AN OXIDIZER IS NECESSARY TO MAINTAIN CRYSTAL CLEAR CONDITIONS. CHLORINE IS AN EFFECTIVE OXIDIZER, ALTHOUGH OTHER NON-CHLORINE PRODUCTS PERFORM WELL SUCH AS BROMINE, HYDROGEN PEROXIDE, OR OXYGEN BASED COMPOUNDS WHICH ARE AVAILABLE AT (POOL) SUPPLY STORES.



NOW, WITH THE **floatron**, YOU CAN ENJOY YEARS OF HEALTHY AND SPARKLING WATER WITHOUT THE DETRIMENTAL, EXPENSIVE, AND TIME CONSUMING HIGH CHEMICAL CONCENTRATIONS!

Initial Assembly

UPON RECEIPT OF YOUR **floatron**, UNPACK ALL OF THE CONTENTS, BEING SURE TO LOOK INSIDE OF THE INSERT FOR PARTS. THIS BOOKLET SHOULD BE READ IN ITS ENTIRETY FIRST. AFTER CAREFULLY READING THESE OPERATING INSTRUCTIONS:

- 1) INSPECT THE SOLAR PANEL FOR ANY VISUAL DAMAGE OR IMPERFECTIONS WHICH MAY HAVE OCCURRED DURING SHIPPING. IF ANY DISCREPANCIES ARE NOTICED, CONTACT YOUR DEALER OR **floatron** CUSTOMER SERVICE.
- 2) LAY THE UNIT FACE DOWN ON A SMOOTH SURFACE. WITH ONE HAND, HOLD THE SPRING ELECTRODE DOWN IN A COMPRESSED CONDITION TO ALLOW UNOBSTRUCTED ACCESS FOR THE MINERAL ELECTRODE INSTALLATION.
- 3) ENGAGE (CLOCKWISE) THE THREADED END OF THE MINERAL ELECTRODE ONTO THE SILVER COLORED METAL SCREW / STUD AT THE CENTER OF THE UNIT, WHICH IS ALSO AT THE CENTER OF THE SPRING ELECTRODE.
- 4) TIGHTEN SNUGLY BY HAND, ABOUT A QUARTER TURN AFTER MAKING CONTACT WITH THE BLACK RUBBER SEAL AT THE BASE.
- 5) PLACE SCREEN ASSEMBLY OVER THE ELECTRODES AND CENTER THE HOLE IN THE CAGE WITH THE BORE IN THE MINERAL ELECTRODE END.
- 6) INSERT PLASTIC "PUSH-PULL" FASTENER INTO BORE, PUSH IN TO LOCK THE SCREEN ASSEMBLY ONTO THE MINERAL ELECTRODE.

notes

-  THE SPRING ELECTRODE IS PERMANENTLY INSTALLED AND IS NOT REMOVABLE. DO NOT ATTEMPT REMOVAL BY TWISTING OR PULLING. PERMANENT DEFORMATION MAY RESULT.
-  THE PURPOSE OF THE SCREEN CAGE IS TO TRAP ANY DEPOSITS OR RESIDUES WHICH FORM ON THE ELECTRODES DURING NORMAL OPERATION. THE SCREEN PREVENTS ANY PARTICLES FROM FALLING INTO THE WATER OR ONTO THE POOL BOTTOM.

YOUR **floatron** IS NOW READY FOR THE WATER, BUT YOUR WATER MAY NOT BE READY FOR THE **floatron**.

READ ON:

Starting Up

THE **floatron** WILL PROTECT YOUR POOL AGAINST MICRO-ORGANISM INVASION. ITS SOLAR IONIZATION PROCESS TRANSFORMS YOUR WATER INTO BIOLOGICALLY HEALTHY AND ALGAE RESISTANT MINERAL WATER. DEPENDING ON THE VOLUME OF WATER, WEATHER CONDITIONS, AND USAGE, THE INITIALIZATION PERIOD WILL RANGE FROM ABOUT A WEEK TO SEVERAL WEEKS. THE **floatron** CANNOT IONIZE A POOL INSTANTLY BECAUSE IT IS DESIGNED AS A TRICKLE CHARGER WITH A SAFE AND EFFECTIVE LOW POWER OUTPUT. THEREFORE, IT IS IMPORTANT TO MAINTAIN A NORMAL SANITIZER LEVEL DURING THIS INITIALIZATION PERIOD UNTIL THE ION CONCENTRATION REACHES A PROTECTIVE LEVEL.

- 1) BEGIN WITH NORMALLY CHLORINATED WATER, AND NORMAL pH FOR YOUR POOL. USE YOUR REGULAR CHLORINE TEST KIT TO MAINTAIN APPROXIMATELY 1.0 PPM (PARTS PER MILLION) CHLORINE RESIDUAL. MORE CHLORINE MAY BE NECESSARY IF CONDITIONS WARRANT.
- 2) CLEAR THE WATER PRIOR TO FLOATING YOUR **floatron**. IF YOUR WATER IS LESS THAN CLEAR, IT MAY REQUIRE A 'SHOCK' DOSE OF OXIDIZER / CHLORINE.
- 3) CHECK FOR PRESENCE OF COPPER IONS IN THE WATER WITH THE ION TEST KIT. SEE 'ION TESTING'. THE TYPICAL READING AT THIS POINT IS ZERO TO TRACE AMOUNT (.0 - .1 PPM). IF HIGHER CONCENTRATIONS ARE DETECTED, THIS IS USUALLY CAUSED BY THE PREVIOUS ADDITION OF A COPPER BASED ALGAEICIDE. IF SO, MANAGE AS OUTLINED UNDER 'ION TESTING' HEADING.
- 4) FREE FLOAT WHILE ENSURING DIRECT SUNLIGHT ON THE UNIT. IF NECESSARY, TETHER IN A SUNNY PART OF THE POOL. ANY SUITABLE RESTRAINT MAY BE TIED TO THE TETHERING CHAIN FOR THIS PURPOSE.
- 5) OPERATE PUMP AND FILTER SYSTEM DURING DAYLIGHT HOURS WHEN YOUR **floatron** IS GENERATING IONS. THIS WILL ALLOW PROPER MIXING AND CIRCULATION OF THE MINERALS. PUMP OPERATION IS UNNECESSARY AND OPTIONAL AT NIGHT, AND THE UNIT CAN BE LEFT IN THE POOL OVERNIGHT.

Ion Testing

THE MINERAL ELECTRODE IS MADE OF A UNIQUE ALLOY OF SEVERAL SPECIFIC METALS, PREDOMINANTLY COPPER. THE ION TEST KIT DETECTS THE PRESENCE OF THE COPPER ION, THEREBY ENABLING YOU TO DETERMINE IF THE WATER HAS AN ADEQUATE LEVEL OF PROTECTIVE MINERALS. THE REAGENTS IN THE KIT ARE VERY SENSITIVE, AND READINGS CAN BE AFFECTED BY VARIOUS INTERFERENCES. ACCORDINGLY, USE THE ION TEST AS A BASIC AND GENERAL INDICATOR. TEST ONLY ONCE A WEEK; MORE OFTEN IS UNNECESSARY.


- 1) READ ION TEST KIT INSTRUCTIONS ON THE TEST KIT.
- 2) WEEKLY CHECKS SHOULD SHOW AN INCREASING CONCENTRATION OVER TIME.
- 3) THE TARGET IS .3 PPM, WHICH UPON REACHING, CHLORINE REDUCTION MAY BEGIN.
- 4) IF THE ION READING CLIMBS TO .5 PPM OR MORE, REMOVE THE UNIT FROM THE WATER FOR A WEEK AND MONITOR ION LEVEL (WEEKLY).
- 5) ONCE THE LEVEL DROPS TO .3 PPM OR LESS, RESUME FLOATING THE UNIT AND CONTINUE WEEKLY ION CHECK.
- 6) IF THE ION LEVEL MAINTAINS AT .3 PPM, THEN CONTINUE FLOATING FULL TIME.

THE PURPOSE OF ION TESTING IS TO INITIALLY DETERMINE THAT IT IS SAFE TO REDUCE CHLORINE, AND SUBSEQUENTLY TO ESTABLISH A FLOATING SCHEDULE WHICH RESULTS IN A STEADY ION READING OF APPROXIMATELY .3 PPM. DEPENDING ON CONDITIONS, POOLS WITH 20,000 GALLONS OR MORE USUALLY REQUIRE FULL TIME FLOATING. SMALLER POOLS WILL USUALLY MAINTAIN AN ADEQUATE ION LEVEL WITH A PART TIME FLOATING SCHEDULE. FOR EXAMPLE, ONE DAY IN, ONE DAY OUT, TWO DAYS IN, ONE DAY OUT, ONE WEEK IN, ONE WEEK OUT, ETC. POOLS WITH SCREENED ENCLOSURES WILL PROBABLY REQUIRE FULL TIME FLOATING AS THE OUTPUT WILL BE ABOUT HALF OF THAT WITH NORMAL FULL SUN.

The First Few Weeks

DURING THIS PERIOD YOU SHOULD WITNESS THE ION LEVEL BUILD UP TO APPROXIMATELY .3 PPM. FLOAT THE UNIT DAILY AND DO NOT REDUCE THE FLOATING SCHEDULE UNLESS THE ION LEVEL TENDS TO CLIMB TOO HIGH. REMEMBER, MORE IONS ARE NOT BETTER. THE WATER HAS A CAPACITY TO HOLD ONLY A CERTAIN AMOUNT OF MINERALS, AND ATTEMPTING TO EXCEED WHAT IS KNOWN AS 'SATURATION POINT' MAY RESULT IN MINERALS COLLECTING ON POOL SURFACES. IT IS IMPORTANT TO SPEND A FEW MINUTES A WEEK TO CHECK THE ION LEVEL AND TO KEEP THE ELECTRODES CLEAN (SEE 'ELECTRODE CLEANING').

- 1) UPON REACHING THE RECOMMENDED ION LEVEL OF .3 PPM, INITIATE CHLORINE REDUCTION BY ALLOWING THE CHLORINE CONCENTRATION TO DROP TO ABOUT HALF OF ITS NORMAL LEVEL, OR APPROXIMATELY .5 PPM.
- 2) THE pH RANGE MAY NOW BE EXPANDED FROM 7.2 - 7.8. THE **floatron** WORKS WELL AT HIGHER pH VALUES, SO DO NOT ARBITRARILY ATTEMPT TO ADJUST THE pH IF IT IS WITHIN THIS RECOMMENDED RANGE.

 KEEP IN MIND THAT THE GENERAL IDEA IS TO USE YOUR **floatron**. JUST ENOUGH TO MAINTAIN AN ADEQUATE ION LEVEL, AND TO DETERMINE HOW LITTLE CHLORINE IS NECESSARY TO KEEP THE WATER CLEAR. ALLOW THE WATER TO SETTLE DOWN AND SEEK ITS OWN BALANCED CONDITION.

- 3) CLEAN ELECTRODES WEEKLY.

Electrode Cleaning

THE **floatron** IS THE ONLY PURIFIER WHICH, IN ADDITION TO GENERATING BENEFICIAL MINERAL IONS, COLLECTS UNDESIRABLE MINERALS SUCH AS CALCIUM AND IRON. THIS HAS THE EFFECT OF SOFTENING YOUR WATER. THE SACRIFICIAL MINERAL ELECTRODE IS DESIGNED TO SLOWLY ERODE AWAY, AND IN THE PROCESS WILL FORM A SCALE BUILDUP WHICH WILL REQUIRE OCCASIONAL CLEANING. THE SPRING ELECTRODE MAY ALSO FORM A SCALE, WHICH NORMALLY CONSISTS OF CALCIUM, AND SHOULD ALSO BE CLEANED. THE INITIAL RATE OF BUILDUP WILL BE QUICKER IN HARDER WATER, AND WILL SLOW AS THE WATER BECOMES PROGRESSIVELY SOFTENED. **HEAVILY SCALED ELECTRODES WILL RESTRICT ELECTRICAL FLOW AND SLOW THE IONIZATION PROCESS, THEREFORE IT IS ADVANTAGEOUS TO CLEAN THEM ON A WEEKLY BASIS:**


- 1) LAY UNIT FACE DOWN, PREFERABLY ON GRASS (see 'TIPS').
- 2) REMOVE PUSH/PULL FASTENER AND SCREEN.
- 3) BLAST WITH A JET OF WATER FROM GARDEN HOSE NOZZLE, FROM DIFFERENT DIRECTIONS, TO KNOCK OFF LOOSE MATERIAL AND SCALE.
- 4A) REDUCE THE WATER FLOW, AND WITH WATER RUNNING OVER THE ELECTRODES, ATTACK BUILDUP WITH THE CLEANING BRUSH TO REMOVE MOST OF THE REMAINDER OF RESIDUES,
AND / OR
- 4B) WITH WATER RUNNING OVER THE ELECTRODES, SLIDE THE SPRING UP AND DOWN WHILE MAKING CONTACT WITH THE CENTER ELECTRODE FROM VARIOUS DIRECTIONS. THE RESIDUES WILL WASH AWAY WITH THE WATER.

THE CENTER ELECTRODE NEED NOT BE CLEANED DOWN TO BARE METAL, ALTHOUGH THE SPRING IS RELATIVELY EASY TO CLEAN COMPLETELY. IF THE MAJORITY OF THE SCALE IS REMOVED, YOUR **floatron** WILL PERFORM SATISFACTORILY. IT IS NOT POSSIBLE TO CLEAN THE ELECTRODES TOO MUCH OR TOO OFTEN. THE CLEANER THE ELECTRODES, THE MORE EFFICIENT THE OPERATION.

OCCASIONALLY, THE SCREEN WILL REQUIRE CLEANING TO ENSURE A FREE FLOW OF WATER AND ION EXCHANGE. BECAUSE THE MESH IS VERY FINE, DEPOSITS CAN SLOWLY CHOKER THE OPENINGS IN THE SCREEN AND RESTRICT WATER FLOW. TO CLEAN THE WHITE MESH SCREEN:

- 1) HOSE OUT LOOSE DEBRIS.
- 2A) IMMERSER SCREEN IN A JAR OF VINEGAR OVERNIGHT UNTIL VISUALLY FREE OF BLUE / WHITE SCALE BUILDUP,
OR, FOR QUICKER RESULTS:
- 2B) MIX ABOUT 1/3 MURATIC / HYDROCHLORIC ACID TO 2/3 WATER AND PLACE SCREEN INTO A JAR CONTAINING THIS MIXTURE. THE CLEANING PROCESS WILL TAKE A MINUTE OR LESS. DO NOT EXPOSE SCREEN TO THE ACID MIX FOR MORE THAN A MINUTE AS IT COULD SOFTEN THE PLASTIC.
- 3) RINSE SCREEN AND REINSTALL ON UNIT.

note

 THE DILUTE ACID DIP CAN ALSO BE USED TO CLEAN THE ELECTRODES. PLACE THE UNIT ON TOP OF THE JAR WITH THE ELECTRODES IMMERSER, AND REMOVE WHEN THE BUBBLING ACTION CEASES. DO NOT LEAVE ELECTRODES SUBMERGED FOR MORE THAN A FEW MINUTES. RINSE AND REINSTALL SCREEN. SAVE THE ACID / JAR FOR FUTURE USE.

Routine

IT IS IMPORTANT TO SPEND A FEW MINUTES A WEEK TO MONITOR THE WATER BALANCE, CLEAN THE UNIT, AND TO LEARN THE TRENDS. AFTER A MONTH OR TWO OF EXPERIENCE, YOU SHOULD HAVE A GOOD IDEA ABOUT HOW LITTLE CHLORINE, OR OXIDIZER, IS REQUIRED, HOW MUCH FLOATING TIME DOES THE JOB, THE BEST WAY AND FREQUENCY TO CLEAN THE ELECTRODES, ETC.

THE **floatron** WORKS WELL WITH TRACE CHLORINE, OR ANY OTHER OXIDIZER OF YOUR CHOICE. ALGAECIDES, CONDITIONERS, CLARIFIERS, ETC, ETC, ARE UNNECESSARY. HIGHER CHLORINE LEVELS MAY BE REQUIRED WITH AN INCREASE IN WATER TEMPERATURE, INCREASED SWIMMER LOAD, RAINFALL, OR NEW WATER ADDED. IF USING LIQUID CHLORINE, ADD AT OR AFTER SUNDOWN BECAUSE THE SUN'S RAYS QUICKLY NEUTRALIZE CHLORINE. THE RECOMMENDED LEVELS ARE NOT ABSOLUTE AND MAY VARY WITH CHANGING WATER CONDITIONS. WHAT WORKS BEST FOR YOUR POOL IS DETERMINED BY EXPERIENCE. ALLOW YOUR WATER TO SEEK ITS OWN BALANCE. DO NOT ARBITRARILY ALTER THE pH, APPLY LARGE DOSES OF CHLORINE (AKA 'SHOCK'), ADD ALGAECIDE, ADD CONDITIONER, OR TRY TO CHANGE PERFECTLY CLEAR WATER. GIVE YOUR POOL WATER TIME TO STABILIZE, AND REMEMBER, SIMPLICITY IS THE KEY.

Electrode Replacement

THE MINERAL ELECTRODE IS SACRIFICIAL AND DESIGNED TO SLOWLY DISINTEGRATE. AFTER AN AVERAGE OF 12 - 24 MONTHS / 1 - 2 SEASONS, DEPENDING ON CONDITIONS, THE ELECTRODE WILL WEAR AWAY AND REQUIRE REPLACEMENT. YOU WILL KNOW THIS WHEN IT IS 'PENCIL THIN', OR ABOUT 1/4 INCH AT THE CENTER. TO REMOVE THE SPENT ELECTRODE:

- 1) REMOVE SCREEN ASSEMBLY AND CLEAN THE PARTS.
- 2) WHILE COMPRESSING SPRING ELECTRODE WITH ONE HAND, ROTATE CENTER ELECTRODE COUNTERCLOCKWISE. IF NECESSARY, USE PLIERS FOR ADVANTAGE.
- 3) CONTINUE TO UNTHREAD UNTIL FREE.



THE PROCEDURE FOR INSTALLING THE ELECTRODE IS IN REVERSE ORDER, AND CAN BE FOUND UNDER 'INITIAL ASSEMBLY'.


Closing / Reopening

WHETHER CLOSING FOR THE WINTER OR FOR VACATION, YOUR POOL WATER SHOULD REMAIN CLEAR FOR MONTHS IF CORRECTLY PUT AWAY:

- 1) ENSURE ION READING .3 TO .5 PPM. THE MINERALIZED WATER WILL PROTECT AGAINST ALGAE; THE IONS ACT AS AN ALGAEICIDE, THEREFORE NO NEED TO ADD ALGAEICIDE.
- 2) TURN OFF ALL EQUIPMENT, INCLUDING PUMPS, CHLORINATORS, ETC.
- 3) IF THE WATER IS CLEAR, NO NEED TO OXIDIZE. IF LESS THAN CLEAR, ADD CHLORINE / OXIDIZER UNTIL CLEARED.
- 4) REMOVE THE **floatron**.
- 5) DRAIN WATER, WINTERIZE PUMPS, COVER, ETC AS DESIRED.
- 6) CLEAN AND REMOVE ELECTRODE FROM THE UNIT AND STORE IN AN AIRTIGHT PLASTIC BAG OR JAR.
- 7) STORE YOUR **floatron** INDOORS. AVOID FREEZING.

To Reopen Your Pool

- 1) TOP OFF WATER LEVEL, CLEAN FILTER, AND VACUUM.
- 2) IF WATER IS CLOUDY, ADD ENOUGH OXIDIZER TO CLEAR.
- 3) TEST ION LEVEL. IF LOW, FLOAT UNIT TO RE-ESTABLISH .3 PPM, TEMPORARILY INCREASING OXIDIZER UNTIL PROTECTIVE ION LEVEL IS ATTAINED. BE SURE TO MAINTAIN ENOUGH OXIDIZER TO ENSURE WATER CLARITY.
- 4) ADJUST pH TO FALL WITHIN 7.2 - 7.8 RANGE, IF NECESSARY.

 IF THE POOL WAS PREVIOUSLY SHUT DOWN WITH AN INSUFFICIENT ION LEVEL, OR SEVERE CONDITIONS WERE ENCOUNTERED LATE IN THE OFF SEASON, LESS THAN CLEAR WATER CONDITIONS MAY BE EXPERIENCED UPON REOPENING.

Operational Check

IT IS UNLIKELY THAT YOUR **floatron** WILL NOT GENERATE IONS. SHOULD THERE BE ANY DOUBT, THE FOLLOWING QUICK CHECK WILL VISUALLY VERIFY ELECTRICAL OUTPUT:

- 1) FILL A CLEAR, GLASS OR PLASTIC, QUART SIZED JAR OR EQUIVALENT WITH POOL OR TAP WATER.
- 2) CLEAN ELECTRODES AND LEAVE SCREEN OFF.
- 3) PLACE THE FLOATRON ON THE TOP OF THE JAR, RESTING ON THE LIP, WITH THE ELECTRODES IMMERSSED IN THE WATER.
- 4) WITH A FULL SUN SHINING ON THE SOLAR PANEL, VERY FINE BUBBLES WILL BE OBSERVED ORIGINATING FROM THE SPRING COILS WITHIN SECONDS. THIS DEMONSTRATES THAT ELECTRICAL CURRENT IS BEING GENERATED. ABSENCE OF ANY BUBBLES INDICATES A PROBLEM.



Tips



- 1) READ THE INSTRUCTIONS A COUPLE OF TIMES TO START.
- 2) SAVE YOUR ORIGINAL BOX AND INSERTS FOR SAFE AND CONVENIENT STORAGE DURING THE OFF SEASON.
- 3) ALLOW NEW PLASTER TYPE FINISHES TO CURE FOR A MONTH PRIOR TO USING THE **floatron**.
- 4) BAKING SODA WORKS WELL TO RAISE pH, AND IS READILY AVAILABLE AND REASONABLY PRICED.
- 5) HOUSEHOLD BLEACH WORKS EXCELLENTLY FOR SMALL AND MEDIUM SIZED POOLS. FOR LARGE POOLS, TOO MANY GALLONS MAY BE REQUIRED, MAKING MORE CONCENTRATED FORMS OF CHLORINE MORE CONVENIENT.
- 6) KEEP A TABLET OF CHLORINE IN THE SKIMMER, OR FLOATING DISPENSER, TO PROVIDE A CONSTANT INPUT OF OXIDIZER INTO THE POOL. WHEN NECESSARY, ADD AN ADDITIONAL BOOST OF LIQUID OR GRANULATED CHLORINE TO MAINTAIN CLEAR WATER.
- 7) USE KITCHEN CLEANSER TO CLEAN THE WHITE PLASTIC FLOATER.
- 8) TO CLEAN THE SOLAR PANEL OF ENCRUSTED CALCIUM, POUR ACID ONTO THE TOP SURFACE WHILE FLOATING. LEAVE A MINUTE AND DUNK TO RINSE.
- 9) STORE CHLORINE IN A COOL AND DARK PLACE.
- 10) STORE ION TEST KIT IN REFRIGERATOR.

- 11) CHECK WATER HARDNESS, MEASURED AS TOTAL DISSOLVED SOLIDS (TDS) AT YOUR LOCAL POOL STORE. READINGS OF APPROXIMATELY 1500 PPM OR GREATER INDICATE THE NEED TO DRAIN AND REFILL WITH FRESH WATER.

IF THAT IS NOT POSSIBLE, PARTIAL DRAINING AND REFILLING IS BENEFICIAL. WITH A HIGH TDS, THE WATER CANNOT ABSORB AND RETAIN MINERALS VERY EASILY, NOR CAN OXIDIZERS BE VERY EFFECTIVE – IT IS SIMPLY TOO HARD.
- 12) THE ADDITION OF CYANURIC ACID (STABILIZER) IS NOT NECESSARY IF YOU ALREADY USE A STABILIZED FORM OF CHLORINE, SUCH AS TABLETS.
- 13) THE **floatron** WORKS FINE WITH A POOL COVER. THE CHOICES ARE TO OPEN THE COVER ENOUGH TO FLOAT THE UNIT, OR CUT A 3 INCH HOLE IN FRONT OF THE SKIMMER IN THE COVER WHICH ALLOWS THE ELECTRODES TO REMAIN IN THE WATER WHILE THE TOP IS EXPOSED TO THE SUN.
- 14) CLEAR, HIGH QUALITY WATER WITHOUT ALGAE, AND AN ABNORMALLY LOW ION READING, DOES NOT NECESSARILY INDICATE THAT YOUR **floatron** IS NOT FUNCTIONING PROPERLY. IN THIS SITUATION, CALL THE FACTORY.
- 15) WHEN REPLACING THE MINERAL ELECTRODE, ENSURE THAT THE THREADS ARE DRY AND FREE OF WATER OR CORROSION.
- 16) IN HARD WATER CONDITIONS, OVER TIME, THE SOLAR PANEL MAY FORM WHITE CALCIUM DEPOSITS WHICH ARE LEFT BY WATER EVAPORATION. TO QUICKLY & EASILY REMOVE THE SCALE, EITHER
 - 1) APPLY DILUTE ACID / WATER (AS DESCRIBED UNDER 'ELECTRODE CLEANING') WITH A TOOTHBRUSH. ALLOW TO DISSOLVE DEPOSITS AND RINSE. VINEGAR MAY BE USED, ALTHOUGH MORE TIME WILL BE REQUIRED TO DO THE JOB,
 - OR 2) WITH THE UNIT FLOATING IN YOUR POOL, POUR ACID DIRECTLY ONTO THE TOP / SOLAR PANEL, WAIT ABOUT A MINUTE, AND DUNK TO RINSE.
- 17) THE MINERAL ELECTRODE RESIDUES HAVE BEEN FOUND TO BENEFIT VEGETATIVE GROWTH. BY CLEANING YOUR UNIT IN THE VICINITY OF PLANTS, BUSHES, TREES, ETC, ENHANCED GROWTH RATES AND PLANT SIZE CAN BE REALIZED. AS WITH ANY FERTILIZER, DO NOT OVER APPLY, OR DO NOT CLEAN IN ONE PARTICULAR SPOT FOR TOO LONG. MOVE AROUND THE YARD FOR WEEKLY CLEANING.

Do's & Don'ts

- 1) DO NOT AUTOMATICALLY TAKE ADVICE FOR GRANTED FROM THOSE WHO ARE NOT EXPERIENCED WITH THE **floatron**. THIS TYPE OF EXPERT OPINION IS OFTEN INFLUENCED BY THE DESIRE TO SELL OR USE CHLORINE AND RELATED POOL CHEMICALS. ADDITIONALLY, RECOMMENDATIONS MORE OFTEN THAN NOT REFLECT A CHLORINE BASED POOL CHEMISTRY, AND ARE NOT APPLICABLE TO IONIZED WATER.
- 2) DO NOT ADD ANY CLARIFIERS OR METAL REMOVERS; THEY ARE NON-SELECTIVE AND WILL ELIMINATE THE BENEFICIAL MINERAL IONS GENERATED BY YOUR **floatron**.
- 3) DO NOT USE WITH BAQUACIL OR SOFTSWIM BRAND PRODUCTS, OR OTHERS WITH SIMILAR CHEMISTRY. THESE CHEMICALS MUST BE REMOVED FROM THE WATER FIRST. CALL THE FACTORY FOR SIMPLE HOW-TO DIRECTIONS.
- 4) ADDITION OF ALGAECIDE IS UNNECESSARY AS THE **floatron** IS AN ALGAECIDE GENERATOR.
- 5) 'SHOCKING' IONIZED MINERAL WATER IS POOR TECHNIQUE - IT'S LIKE AN ATOMIC BOMB TO THE WATER. THE WATER NEEDS TO BE FINESSED. OXIDIZER SHOULD BE ADDED AT REDUCED DOSAGES TO CLARIFY CLOUDY WATER.
- 6) WHEN USING THE ION TEST KIT, BE SURE TO SIGHT THROUGH THE SAMPLING TUBE FROM TOP TO BOTTOM FOR COLOR COMPARISON, **NOT THROUGH THE SIDE**. A LOW READING WILL RESULT IF VIEWED THROUGH THE SIDE.

Manufacturer's Warranty

floatron, inc. GUARANTEES ITS SOLAR POWERED WATER PURIFIERS TO BE FREE FROM DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF 24 MONTHS (2 YEARS) FROM THE DATE OF PURCHASE. IF A PROBLEM DEVELOPS WITHIN THIS PERIOD, THE FAULTY PART OR ASSEMBLY WILL BE REPAIRED OR REPLACED, AT THE MANUFACTURER'S DISCRETION, FREE OF CHARGE.

NOT COVERED BY THIS WARRANTY ARE:

- 1) ELECTRODE WEAR AND TEAR,
- 2) CONDITIONS RESULTING FROM MISUSE, ABUSE, NEGLIGENCE, ACCIDENT, ALTERATION, DISASSEMBLY, OR
- 3) SITUATIONS RESULTING FROM DEPARTURE FROM RECOMMENDED INSTRUCTIONS AND APPLICATIONS.

CONTACT YOUR **floatron** DEALER OR THE FACTORY FOR SERVICE INFORMATION. ***DO NOT RETURN PRODUCT WITHOUT FIRST OBTAINING A FACTORY AUTHORIZATION NUMBER.***

PLEASE SAVE YOUR RECEIPT AS PROOF OF PURCHASE

notes