

TrioPure™ Soft Water & Ozone Sanitation System




Installation and Operation Manual

TrioPure™-25

TrioPure™-50

IMPORTANT SAFETY INSTRUCTIONS

Read and Follow All Safety Instructions

- Read and be familiar with this manual before installing, operating or performing maintenance on the TrioPure™.
- The TrioPure™ must be installed and operated as specified in Section 2 of this manual.
- When installing and using this electrical equipment, basic safety precautions must always be followed.
- To reduce risk of electrical shock, turn off main pool pump and disconnect power to pool equipment prior to any installation or removal of TrioPure™ components.
- All permanent electrical connections should be made using liquid tight fittings and conduit and be made by a certified electrician.
- A ground terminal marked:  is located inside the compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electrical supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- A bonding lug is provided on the external surface of the TrioPure™. 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 a copper conductor not smaller than 8 AWG for US and 6 AWG for Canadian installations.
- A Ground Fault Circuit Interrupter (GFCI) must be installed between the TrioPure™ and the electrical supply.
- Mount the TrioPure™ so that it is inaccessible to anyone in the pool. Never attempt any servicing while unit is wet.
- The TrioPure™ must not be installed directly above any heat source (e.g., heater). It must be at least 2 ft. (600 mm) above the ground to allow free circulation of air around it. It must not be installed in a closed box.
- The TrioPure™ must be installed in an outdoor location, or indoors in a well-ventilated room, and installed so that it is level and the orientation is as shown in Figures 1-2.
- This product manufactures chlorine. Individuals with any type of chlorine sensitivity should take the appropriate precautions to avoid injury or illness.
- To avoid personal injury when working with pool chemicals, always wear rubber gloves and eye protection and work in a well-ventilated area. Use caution when choosing a location to open and use chemicals as they may damage any surface in which they come in contact.
- For your safety, do not store or use gasoline, chemicals or other flammable liquids or vapors near this or any other appliance.
- Do not let anyone, especially small children, sit, step, lean or climb on any equipment installed as part of your pool's operational system.
- **WARNING:** Always dilute acid in a bucket of pool water before adding to the pool. Never add water to acid, always add chemicals to water. Carefully follow acid manufacturer's safety precautions. DO NOT MIX DIFFERENT CHEMICALS TOGETHER.
- **WARNING:** Short-term inhalation of high concentrations of ozone and long-term inhalation of low concentrations of ozone can cause serious harmful physiological effects. DO NOT inhale ozone gas produced by this device.
- **WARNING:** Excessive chlorine levels can cause corrosion damage to swimming pool rails, ladders, heaters, heat exchangers, light faceplates and other metallic equipment. Avoid over saturation of chlorine levels by checking chlorine often using a suitable chlorine test device. Chlorine levels should not exceed 3 ppm. Always check chlorine levels before entering pool.
- **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

SAVE THESE INSTRUCTIONS!

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SECTION 1 General Information

1A Description

How Your TrioPure™ Sanitation System Works

Your TrioPure™ produces both ozone and chlorine. Ozone is made by drawing air through Corona Discharge (CD) cells that break down oxygen molecules, which then recombine into ozone molecules. The TrioPure™'s internal pump provides sufficient water flow through the TrioPure™ to draw this ozonated air into the water stream. Chlorine is made by electrolyzing low concentrations of salt in the pool, freeing the chlorine from the sodium chloride molecules.

The ozone created in the TrioPure™ serves as the primary sanitizer, but requires a small residual of free available chlorine to remain to control algae growth. The amount of chlorine required is significantly less (60-90%) than a chlorine-only pool.

Limitations: The salinity requirement of our system is designed to maintain the chlorine level in your pool. After a large bather load or if the pool water chemistry is diluted by rain, it may be necessary to shock the pool. During the winter months and colder temperatures, this product will not produce the same amount of chlorine as during the summer and chlorine must be added to the pool to maintain the proper residual sanitation level.

Exclusions: Salt is a corrosive element. Consequently, when salt is placed in your pool water and the water containing the salt comes in contact with some metals, they will corrode or rust. Additionally, the salt in the water will cause some stone materials to change color and/or deteriorate over time. It may also take the color out of decking materials and erode the deck sealer. DEL Ozone is not responsible for the repair or replacement of any materials, products or consequential damages of any kind due to salt-water damage.

The amount of chlorine produced by the TrioPure™ can be adjusted by using the **Chlorine Control** knob in order to compensate for higher chlorine demand during hot days or increased bather load.

Extreme conditions may require the addition of supplemental algacide (chlorine or non-chlorine shock).

The Advanced Oxidation Process (AOP - Patent Pending)

1. The combination of ozone with electrolysis creates AOP.
2. During AOP, super oxide compounds, even stronger oxidizers than ozone or chlorine alone, are continuously being formed to destroy contaminants.
3. Super oxides in combination with free ozone and free available chlorine (FAC), provide the strongest and safest pool water sanitation compared to other sanitation systems.

Where AOP Happens

1B Specifications

Power Requirements:

Rating: 120V, 3.0 A fuse, 60Hz, or
40V, 1.5 A fuse, 60Hz

Operating Temperature:

Air: 40°-120° F, (4°-49° C)
Water: 50°-108° F (10° - 42° C)

Ozone Production:

TrioPure™-25: 0.3 g/hr @ 72° F and 30% RH
TrioPure™-50: 0.6 g/hr @ 72° F and 30% RH

Specifications:

Dimensions: 15" X 19.5" X 7.5"
Weight: TrioPure-25 & TrioPure-50: ~ 36 lbs.

Pool Capacity:

TrioPure™-25: Up to 25,000 Gallons
TrioPure™-50: Up to 50,000 Gallons

Chlorinator Production:

TrioPure™-25: 7.9 g/hr (174 grams per day)
@ 3400 PPM salinity and 64.4° F (18° C)
water temperature at maximum setting

TrioPure™-50: 15.8 g/hr (348 grams per day)
@ 3400 PPM salinity and 71.6° F (22° C)
water temperature at maximum setting

Water Flow Rate: 5 GPM

Salinity: 3,000-5,000 ppm (3,500 Nominal)



Illustration 1

SECTION 2 Installation

The most common pool and pool/spa configurations are discussed in this manual. For questions on your specific installation, please contact DEL Ozone at 800-676-1335, extension 293.

2A Verify Contents

Inspect your TrioPure™ shipping box for the following items:

- (1) TrioPure™-25 or TrioPure™-50 with salt chlorinator cell attached
- (1) Bypass manifold and return “T” fitting
- (1) 3.0A fuse for 120V & (1) 1.5A fuse for 240V
- (1) Manual
- (1) Quick Reference Guide
- (1) Cleaning Kit
- (1) Slip - Fit mating unions for The TrioPure™ water in and out lines

2B Installation Tips

CAUTION: The bypass manifold must be correctly installed or your TrioPure™ system will not work properly and the warranty will be voided. The bypass manifold contains two check valves that are matched to create the correct backpressure and anti-siphon protection for optimum performance of your The TrioPure™ at most flow rates.

- Do not plumb the TrioPure™ upstream of an in-floor cleaning system (ICS). Instead, use a dedicated return or alternate line back to the pool.
- For installations with solar heating systems, do not plumb so that water from the TrioPure™ can go into the solar heater. Also, air bubbles from the solar return must not be allowed into the TrioPure™ inlet line. Either install the bypass manifold upstream of the solar system inlet or use a check valve in the solar return line with enough restriction to hold air in. See Figure 1.
- **DO NOT USE** copper or iron piping for the TrioPure™ installation as chlorine and ozone have corrosive effects. Consult your pool professional for appropriate pool equipment piping materials.
- Even though the TrioPure™ is designed for outdoor use, care should be taken when choosing a mounting location. **To protect your investment, mount the TrioPure™ where it is protected from the elements (i.e., direct sun, rain, dirt, sprinklers) and completely sheltered, if possible, while providing adequate ventilation.**
- Plumb the TrioPure™ to the bypass manifold using a minimum amount of plumbing fittings. This minimizes backpressure and maximizes ozone injector performance. (Recommended 1½” dedicated pool return.)

- The TrioPure™ has been designed with an electronic water flow switch. This device automatically shuts down the pump, salt chlorinator and ozone subsystems when the water flow through the TrioPure™ is interrupted. To prevent personal injury and damage to the TrioPure™ salt chlorinator cell, do not interfere with this system in any way. It is designed for your protection and the protection of the TrioPure™.
- **Pool water with high calcium levels, or hard water, can cause excessive calcification [scale] in the Chlorinator Cell. Installation of a T-filter or Y-filter trap with a 60-mesh screen near the Water Out line of the TrioPure™, along with frequent acid cleaning of the cell plates [reference Section 5d-1: Chlorinator Cell Plate Cleaning] will reduce water hardness over time. The monthly addition of a non-chlorine shock (Potassium Monopersulfate or equivalent) to the pool will keep the scale soft, preventing the filter trap from clogging. Remove and clean the filter trap as necessary.**

2C Recommended Installation Materials

- Liquid tight conduit, connectors & junction box, and appropriately sized and rated wire per local electrical codes
- **Note:** The TrioPure™ is designed for 1/2” NPT liquid tight fittings
- Two 2” inch unions for manifold installation to pool return line (use reducer bushings for 1½”)
- 3/4 inch unions, ball-valves, and rigid PVC or Spa-Flex flex tubing for installation from manifold to TrioPure™(recommended 1 1/2” dedicated pool return line)
- Mounting hardware for securing TrioPure™ to a stable surface (wall, fence, post with backboard) sufficient to support the unit
- **Note:** If you are mounting the TrioPure™ to the side of house wall that is located near a bedroom, consider using a vibration dampening material to reduce vibration noise

SECTION 2 Installation (Continued)

2D Mounting the TrioPure™

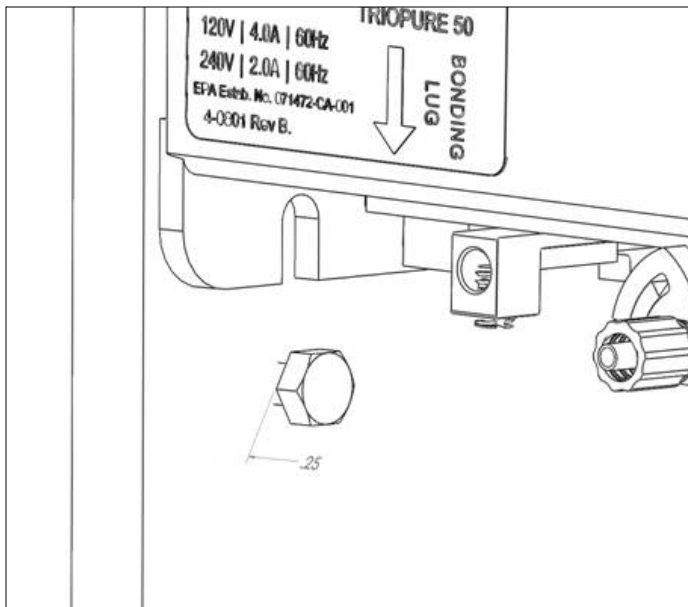
IMPORTANT: A qualified swimming pool professional and certified electrician must install the TrioPure™ Sanitation System or the warranty is void. Refer to local building codes for any additional requirements. If you need assistance in finding a qualified installer please contact our customer service department at 1-800-676-1335, ext. 249, or visit www.delozone.com.

Step 1 - Pick a Mounting Location that Meets the Following Criteria:

- Is ten ft. (10') minimum from the edge of pool.
- Is no more than 8' above or 3' below water level.
- Allows clearance on all sides for ventilation, installation and maintenance (review Sections 2E Plumbing and 2F Electrical). A clearance of 2' minimum is required at the bottom of the unit for access to the chlorinator cell.
- Is not above any heat source such as a heater or pump, and is not in a box.
- Is less than 8' from the bypass manifold.
- If mounting on a post, must be centered on a flat panel of waterproof material at least 18" by 24".
- Out of direct sunlight as much as possible.

Step 2 - Prep the Mounting Location

- Mark the bolt pattern on the mounting surface: 10" wide by 14.75" high.
- Drive the bottom two bolts (1/4" - 20 galvanized hex bolts recommended) so that the heads are sticking out about 1/4" from the mounting surface.



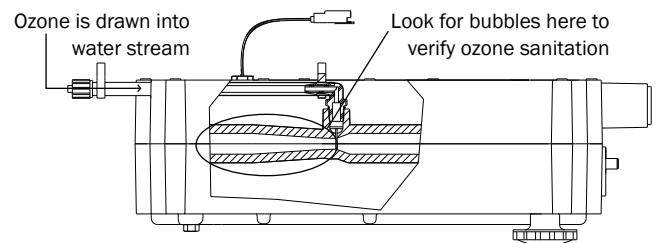
Step 3 - Secure the TrioPure™ to the Mounting Surface

- Place the unit on the bottom bolts so that they fit in the slots on the bottom of the white enclosure.
- Holding the unit in place, drive the remaining two bolts in the mounting holes at the top of the enclosure.

2E Plumbing

2e-1 Installing the TrioPure™ Bypass Manifold

- Do not install the Bypass Manifold with the 2" section in a vertical position. The 3/4" line orientation is optional, but the 2" plumbing must be horizontal.
- The arrow on the Bypass Manifold DEL check valve must go in the direction of water flow.
- Always plumb the Bypass Manifold after the pool filter.
- For pool/spa combinations: plumb the Bypass Manifold in the pool leg after the 3-way valve whenever possible. See Section 2E-2, Figure 2.
- For pool only: plumb the Bypass Manifold between the filter and heater. See Section 2E-2, Figure 1.
- Plumb the Bypass Manifold to the TrioPure™ Water In union using spa-flex tubing or rigid PVC.
 - Length should not exceed 8'
 - Installation of an isolation ball valve in the line is required
- Plumb the TrioPure™ Water Out union to the pool return using spa-flex tubing or rigid PVC.
 - Installation of an isolation ball valve in the 3/4" line is required
 - A light-duty check valve must be installed in the return line if the TrioPure™ is installed below the water line
- Dedicated Return (preferred):
 - Length of 3/4" diameter line should not exceed 8'; use 1-1/2" diameter plumbing from the equipment pad to the pool, do not exceed 75' in total length
- Return to Pool System Plumbing (retrofit):
 - Length of 3/4" diameter line should not exceed 8'
 - Keep the number of 90s in the line to a minimum
 - Do not plumb the return T-fitting in the same leg as an in-floor cleaning system (Paramount, Caretaker, etc.)
- At the return line's termination point in the pool, use the least restrictive fitting possible to minimize backpressure (an anti-vortex drain cover is recommended).



2e-2 Plumbing Configurations Figures 1-2

The plumbing diagrams shown on the following pages are schematic representations of the various pool configurations and plumbing lengths are for reference only.

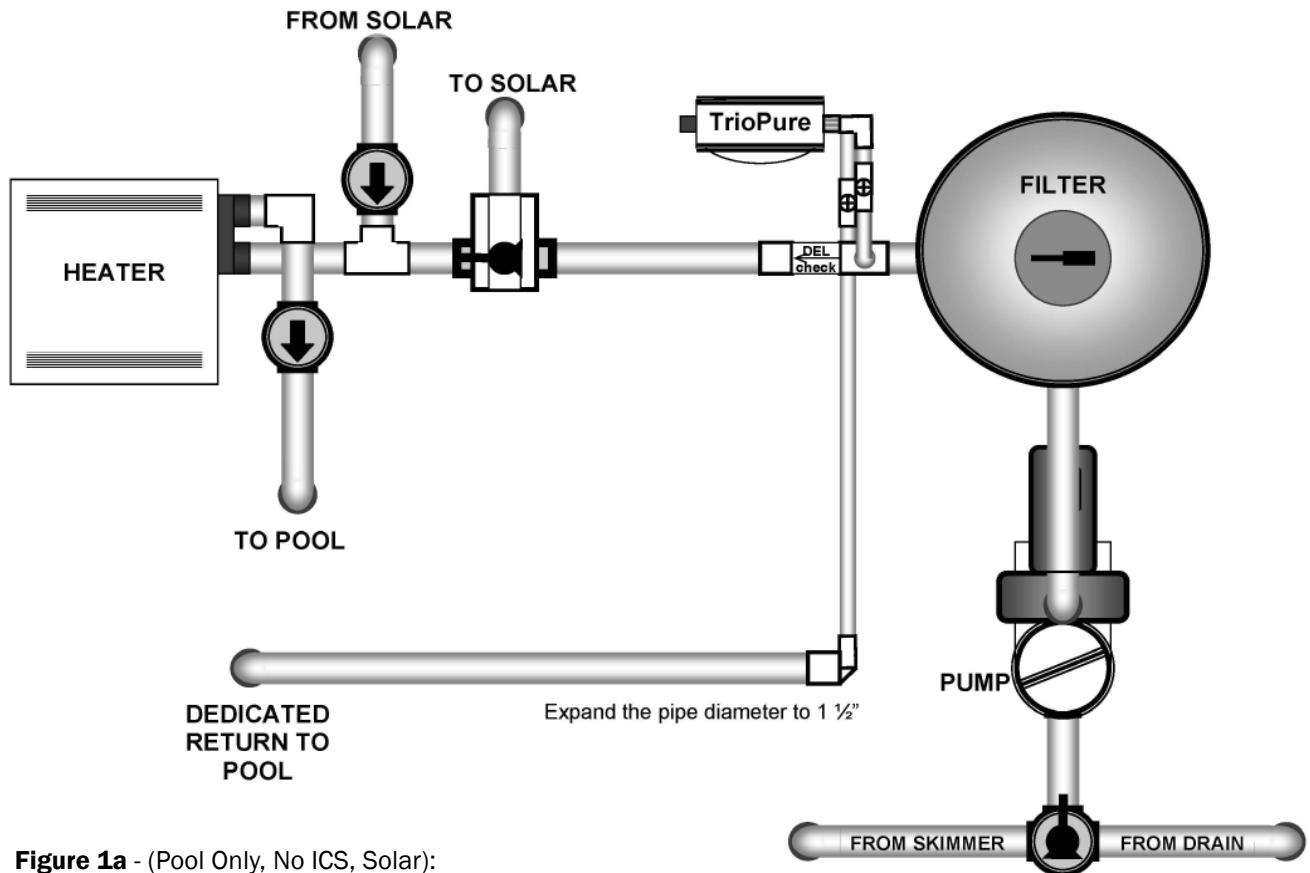


Figure 1a - (Pool Only, No ICS, Solar):

- Manifold to be plumbed between the filter and heater. In the case of solar, the manifold is to be installed before the diverter valve that serves both the solar and non-solar heaters.
- Return from **TrioPure™** plumbed to a dedicated 1½" return to the lowest point of the pool, where possible.
- To minimize the size of ozone bubbles use a dispersion cap or main drain cover. This may require a stub-up to the appropriate size for the fitting.
- The illustration above makes use of the pressure drop across the heater to maintain a high-pressure differential when the pool pump is running.
- Note the check valve installed between the heater and the TrioPure™ return T-fitting. This prevents ozone from getting into the heater.

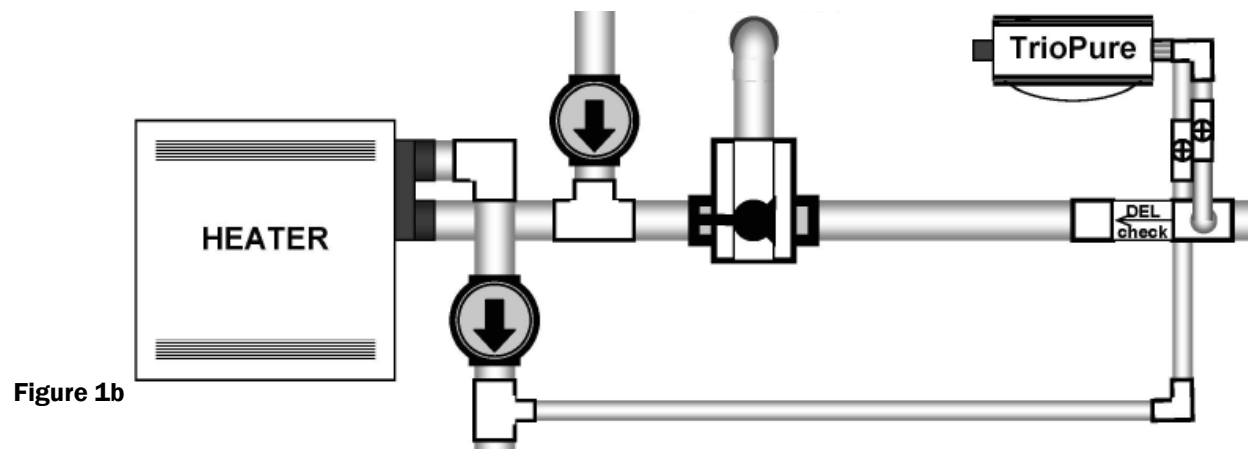


Figure 1b

2e-2 Plumbing Configurations Figures 1-2 continued

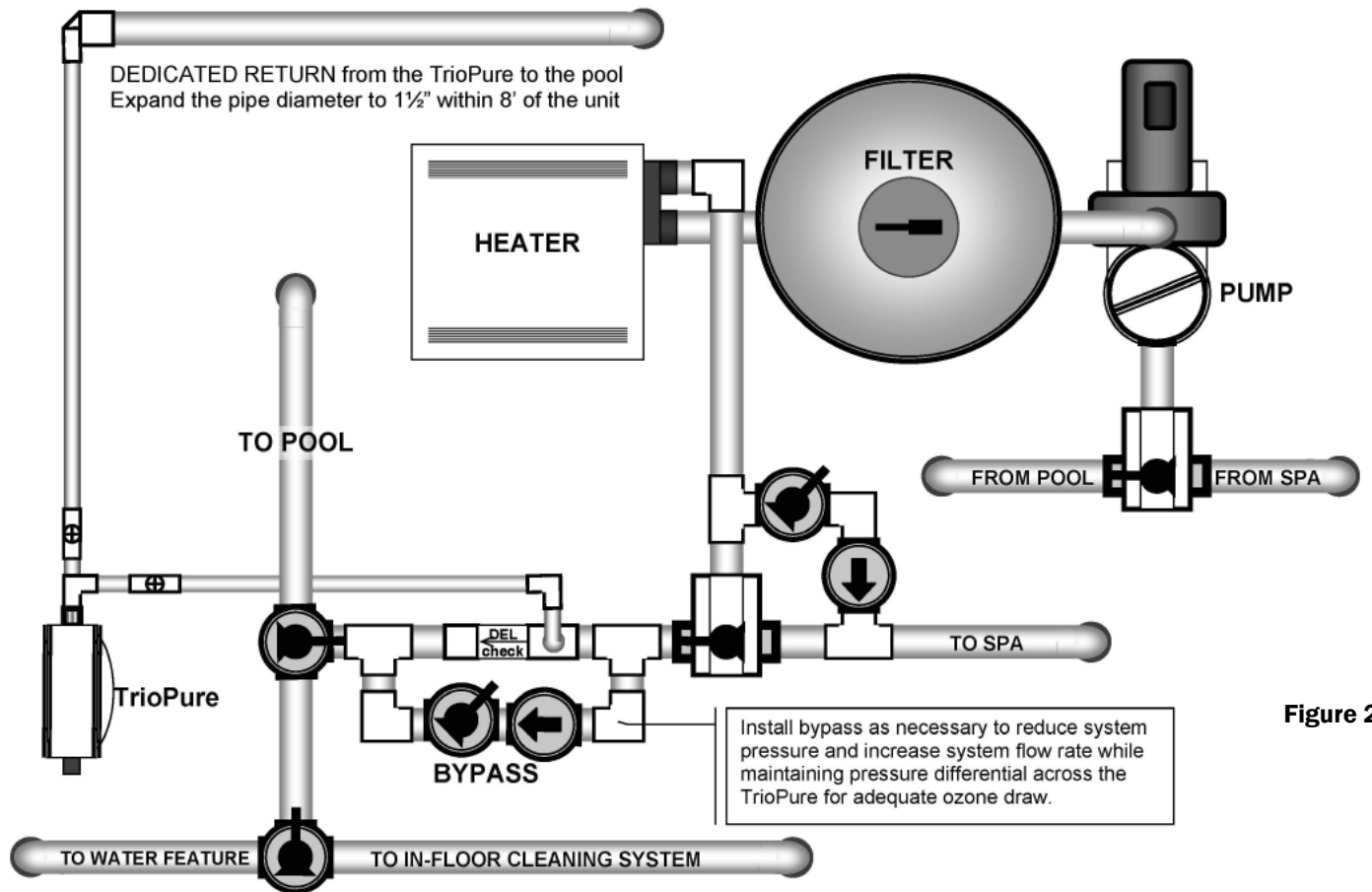


Figure 2a

Figure 2a - (Pool & Spa, ICS):

- DEL requires installing 3/4" ball valves on the inlet and outlet of the TrioPure™ to facilitate Chlorinator Cell removal (valves not included).
- The illustration above shows a flow reduction bypass around the bypass manifold, for use on installations where the bypass manifold causes too much flow restriction in the line.
- The spa will be fed sanitized water through the spillway when the system is in pool mode.
- When the system goes into spa mode, the TrioPure™ will detect the loss of water flow and go into flow fault until water flow is restored.

Figure 2b:

- Return from TrioPure™ plumbed into tee leg going directly to pool.
- If the plumbing length from the TrioPure to the return t-fitting is more than 8', the line should be expanded to 1.5" and the appropriate size t-fitting used instead of the one included in the parts bag.

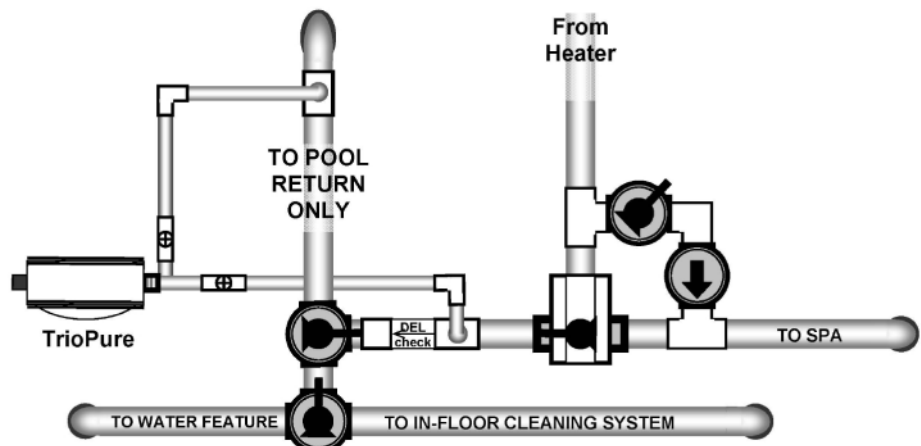


Figure 2b

2F Electrical

IMPORTANT: Electrical connections must be made by a certified electrician or certified pool contractor. Use copper conductors only. Follow all applicable electrical codes. Connect only to a circuit protected by a Class A GFCI.

Note: The TrioPure™ must be hard-wired to the AC line side for 24 hour operation to 120V/60Hz or 240V/60Hz ONLY using liquid tight fittings/conduit and wire gauges meeting all applicable electrical codes for the voltage required. Use a permanent marker to indicate either 120V or 240V configuration on the side label found on the left side of the TrioPure™.

Step 1 - Determine the voltage required for your installation. Your TrioPure™ is configurable for either 120V or 240V AC.

Step 2 - For 120V installations, install the 3.0A fuse (3AG type) into the fuse holder on the right side of the enclosure. For 240V installations, install the 1.5A fuse (3AG type) into the fuse holder. The fuses are in the parts bag.

Warning: Failure to install the correct fuse voids the warranty and can present a potential fire and/or electrical hazard.

Step 3 - Open the front clear cover by removing the screw and opening the latch on the right side of the enclosure.

Step 4 - Remove the front display plate by pulling off the **Chlorine Control Knob** and unscrewing four (4) Phillips head 6-32 screws. Locate the terminal block (TB-1).

Step 5 - The main power wiring should be routed through the ½" hole on the left side of the enclosure using appropriate liquid tight strain relief or conduit (not supplied).

Step 6 - Connect the main wires to TB-1 as shown in **Figure 3** for 120V installations or **Figure 4** for 240V installations.

Step 7 - Connect the local common bonding grid in the area of the swimming pool, spa or hot tub to the bonding lug (on the left exterior of the unit) with an insulated or bare solid copper conductor not smaller than 8 AWG (US) or 6 AWG (Canada). For other countries, refer to applicable electrical codes.

Step 8 - Attach the front display plate with the four (4) Phillips head 6-32 screws. Replace the Chlorine Control Knob onto the extended "D" control shaft. Ensure that the ON/OFF switch is in the "OFF" position. Close and latch the clear cover.

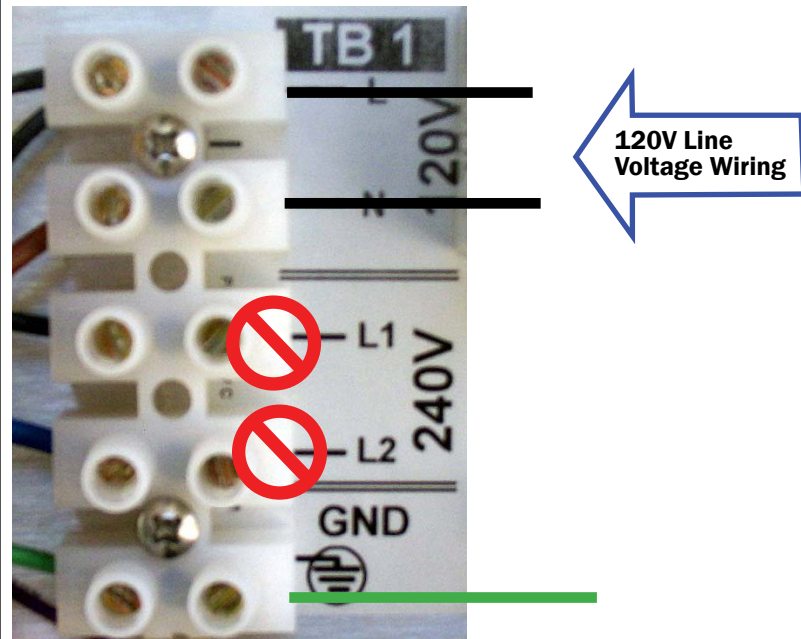


Figure 3 Terminal Block 120V Configurations

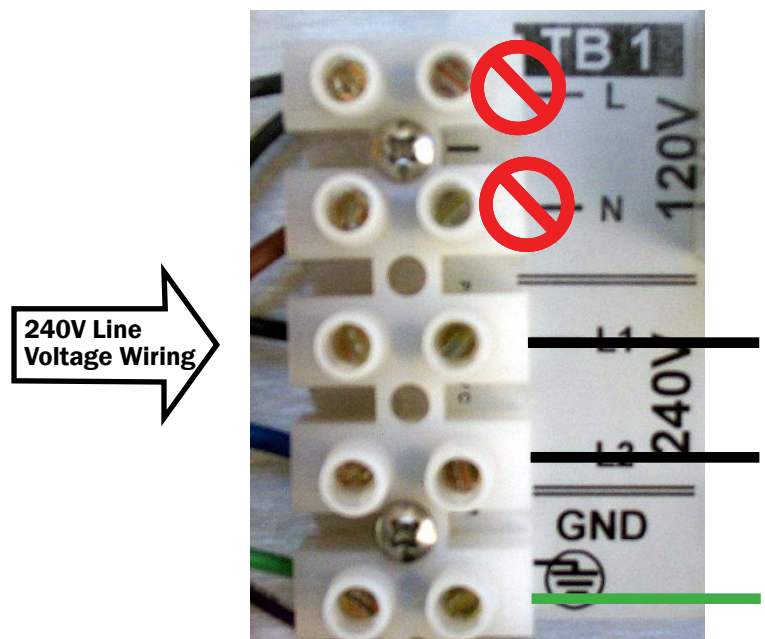


Figure 4 Terminal Block 240V Configurations

SECTION 3 Pool Preparation

3A Important Information

If the TrioPure™ is being installed on a new concrete or plaster pool, do not add salt for 30 days after pool has been filled to help protect plaster from staining.

Pool water must be at the proper salinity level, temperature and chemical balance per Section 5B of this manual before operating the TrioPure™.

3B What Kind of Salt to Use

Use 99.6% pure or better sodium chloride water softening or feed salt. The finer the grain, the easier it will be to dissolve the salt quickly and completely (pellets are much harder to dissolve than fine grain salt). Common brand names of salt to use are Cargil and Morton.

Note: Salt with anti-caking agents (yellow prussiate of soda, or “YPS”) may cause staining of pool linings and fixtures and should not be used.

3C Where to Get Salt

Salt can be purchased at a pool supply, building supply, feed supply, or major home and garden department store.

3D How Much Salt to Use

Always use a salinity test strip (such as Aquacheck White® for salt or LaMotte Insta-Test® found through local pool supply dealer) or digital salinity meter (such as the LaMotte Tracer® meter) to determine salt level in pool water prior to adding any salt. Capture water from about 18” deep in a container and then test this water sample. Add enough salt to obtain a salinity of approximately 3,500 ppm - Refer to ‘Salt Sizing Table’ (Figure 7) on pages 8-9.

3E How to Add Salt

Evenly disperse the proper amount of salt around the perimeter of the pool. Run the main pool circulation pump for 24 hours and agitate any undissolved salt deposited at the bottom of the pool with a pool brush. Allow 24 hours or longer for salt to fully dissolve.

CAUTION: Do not add salt to the skimmer.

IMPORTANT: To avoid damage to your TrioPure™ chlorinator, never operate the TrioPure™ if the salinity level is under 3,000 ppm unless the chlorine output is turned to “MIN” (display = “OF”).

It is easy to add more salt to your pool but difficult to remove excess salt through draining.

3F Pool Sizing Chart

If you don't know the size of your swimming pool, you must first determine the volume before adding large quantities of salt. **Note:** Dimensions are in feet.

For rectangular pools simply calculate:

$$\text{Length} \times \text{width} \times \text{average depth} \times 7.5 = \text{Gallons}$$

For oval pools simply calculate:

$$\text{Length} \times \text{width} \times \text{average depth} \times 6.7 = \text{Gallons}$$

For round pools simply calculate:

$$(\text{diameter})^2 \times \text{average depth} \times 5.9 = \text{Gallons}$$

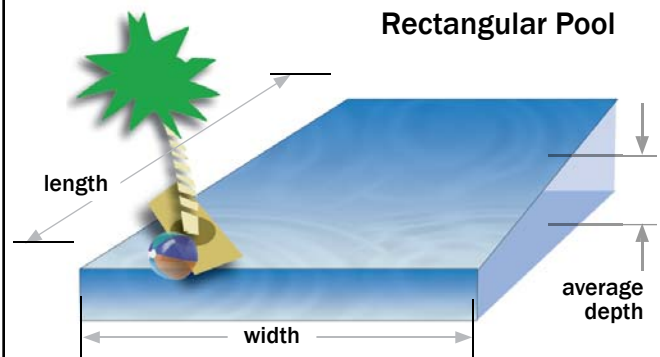


Figure 5

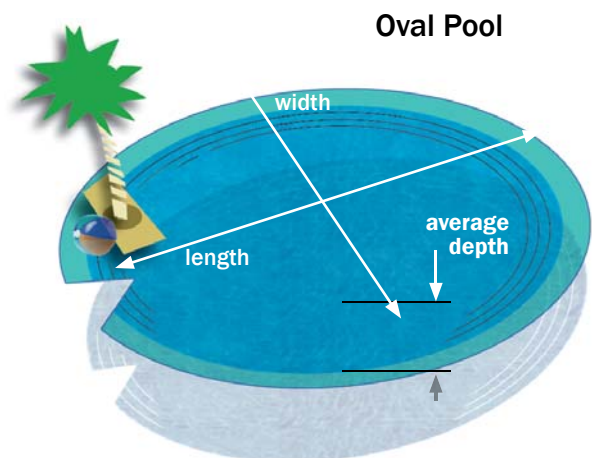


Figure 6

3G Salt Sizing Table

See Figure 7 below for complete salt sizing information on pools up to 50,000 gallons.

Pounds of Salt (99.6% pure Sodium Chloride) Needed for 3,500 PPM Salt Level.

Current Salt Level [ppm]	Volume in Gallons (5,000 to 25,000)								
	5,000	7,500	10,000	12,500	15,000	17,500	20,000	22,500	25,000
0	146	219	292	365	438	511	584	657	730
250	136	203	271	339	407	475	542	610	678
500	125	188	250	313	376	438	501	563	626
750	115	172	230	287	344	402	459	516	574
1000	104	156	209	261	313	365	417	469	522
1250	94	141	188	235	282	329	376	423	469
1500	83	125	167	209	250	292	334	376	417
1750	73	110	146	183	219	256	292	329	365
2000	63	94	125	156	188	219	250	282	313
2250	52	78	104	130	156	183	209	235	261
2500	42	63	83	104	125	146	167	188	209
2750	31	47	63	78	94	110	125	141	156
3000	21	31	42	52	63	73	83	94	104
3250	10	16	21	26	31	37	42	47	52
3500	0	0	0	0	0	0	0	0	0
Over 5000	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute

Current Salt Level [ppm]	Volume in Gallons (25,500 to 29,500)								
	25,500	26,000	26,500	27,000	27,500	28,000	28,500	29,000	29,500
0	745	759	774	789	803	818	833	847	862
250	692	705	719	732	746	759	773	787	800
500	638	651	664	676	689	701	714	726	739
750	585	597	608	620	631	643	654	666	677
1000	532	542	553	563	574	584	595	605	616
1250	479	488	498	507	516	526	535	545	554
1500	426	434	442	451	459	467	476	484	492
1750	372	380	387	394	402	409	416	424	431
2000	319	325	332	338	344	351	357	363	369
2250	266	271	276	282	287	292	297	303	308
2500	213	217	221	225	230	234	238	242	246
2750	160	163	166	169	172	175	178	182	185
3000	106	108	111	113	115	117	119	121	123
3250	53	54	55	56	57	58	59	61	62
3500	0	0	0	0	0	0	0	0	0
Over 5000	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute

Figure 7 continued on next page

3G Salt Sizing Table (Continued)

Current Salt Level [ppm]	Volume in Gallons (30,000 to 50,000)								
	30,000	32,500	35,000	37,500	40,000	42,500	45,000	47,500	50,000
0	876	949	1,022	1,095	1,168	1,241	1,314	1,388	1,461
250	814	882	949	1,017	1,085	1,153	1,221	1,288	1,356
500	751	814	876	939	1,002	1,064	1,127	1,189	1,252
750	689	746	803	861	918	975	1,033	1,090	1,148
1000	626	678	730	782	835	887	939	991	1,043
1250	563	610	657	704	751	798	845	892	939
1500	501	542	584	626	668	709	751	793	835
1750	438	475	511	548	584	621	657	694	730
2000	376	407	438	469	501	532	563	595	626
2250	313	339	365	391	417	443	469	496	522
2500	250	271	292	313	334	355	376	396	417
2750	188	203	219	235	250	266	282	297	313
3000	125	136	146	156	167	177	188	198	209
3250	63	68	73	78	83	89	94	99	104
3500	0	0	0	0	0	0	0	0	0
Over 5000	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute	Dilute

Figure 7, Cont.

3H When to Add Salt and Stabilizer

Step 1 - Determine the size of your pool in gallons. Please see Section 3F.

Step 2 - Check the salinity of the pool water. Always use a salinity test strip or electronic salinity meter to determine the salt level in the pool water prior to adding any salt. Check stabilizer level prior to adding cyanuric acid.

Step 3 - Use the **Salt Sizing Table** (Section 3G) to determine how much salt you will need. If existing stabilizer levels require it, you may also need to add about 1.25 pounds of stabilizer (Cyanuric Acid) for every 50 pounds of salt added to the pool. For example, if adding 750 pounds, the quantity of stabilizer needed would equal 750 pounds / 50 pounds X 1.25 = 18 ¾ pounds.

Note: To add Cyanuric Acid, slowly sprinkle into the skimmer.

Step 4 - Turn on the main pool pump with suction coming from the main pool drain.

Step 5 - Add salt directly to the pool [**DO NOT add to the skimmer box**] by dispersing it around the outside edge of the pool.

Step 6 - Use a pool brush to mix and help dissolve the salt. Keep the main pump running for 24 hours.

Step 7 - Check the pool salinity. If the salt level is much lower or higher than expected, first re-check your calculations for adding salt. Second, check the pool for any undissolved salt and continue to brush and run the main pump as needed.

REMINDER:

Even if the salt concentration is higher than 3,000 ppm, the 'Low Salt' light may flash if the water temperature is at the low end of the specified range or the **Chlorine Control** knob is at a low setting (1-4 shown on the LED display). This is especially true during the initial preparation and start-up. In this situation, the TrioPure™ may not display "10" at the maximum setting.

SECTION 4 Operation

4A Initial Start-Up Procedure

Step 1 - Before starting the TrioPure™, manually add chlorine to the water for the first week to a minimum level of 1 ppm and ensure that the water chemistry, water temperature and salt level (salinity) and adjust as needed – all must be within the limits specified in Section 5B, Monitoring & Maintenance before starting the TrioPure™.

Step 2 - Turn on main pool pump before starting the TrioPure™

Step 3 - Become familiar with the controls, indicators, and features of the TrioPure™. See Figure 8 below (TrioPure™-50 shown).

1) Chlorine Production - Normal Indicator Messages: OF = Chlorine Control turned off; 1-10 = Level of chlorine production; CL = Chlorinator plates are in “clean mode” (down time between polarity changes)

Error Indicator Messages (refer to Section 6A, Troubleshooting, Page 17): Pb = Chlorinator shut off due to problem; OL = Current over limit

2) Chlorine Control - The Chlorine Control Knob controls the level of chlorine production. Turn the knob clockwise to increase the amount of chlorine generated and counterclockwise to decrease the amount of chlorine generated.

3) Low Salt Indicator - The Low Salt indicator is normally off and not lit. The Low Salt indicator blinks red when the pool should be checked for low salinity (Warning-always check

salinity level with a test strip or digital meter before adding salt).

4) High Salt Indicator - The High Salt indicator is normally off and not lit. The High Salt indicator blinks red when the pool should be checked for high salinity. (Warning-always check salinity level with a test strip or digital meter before diluting water).

5) Ozone Production Indicators - The normal operating color of the TrioPure's™ O₃ LED indicators is green. A red LED indicates that the Ozone Cell is not operating (refer to Section 6A, Troubleshooting).

The TrioPure™-25 has two O₃ cell LEDs while the TrioPure™-50 has four O₃ cell LEDs. Note: If the Water Flow indicator is RED, all O₃ cell LEDs will turn red as well.

6) Water Flow Indicator - The Water Flow LED indicator is normally green. A red Water Flow LED indicates insufficient water flow. Note: When water flow is interrupted, both chlorine and ozone production is halted. A Pb error is displayed. O₃ LED indicators turn red, and the pump is shut off.

7) Water Temperature Indicator - The Water Temperature LED indicator is normally green (water between 50-108° F). A red Water Temperature LED indicates water temperature is either too low or high. When water temperature is outside specified range, a Pb error is displayed. The TrioPure™ ozone cells and pump continue to run.

8) On/Off switch

9) Main fuse

10) Serial Number

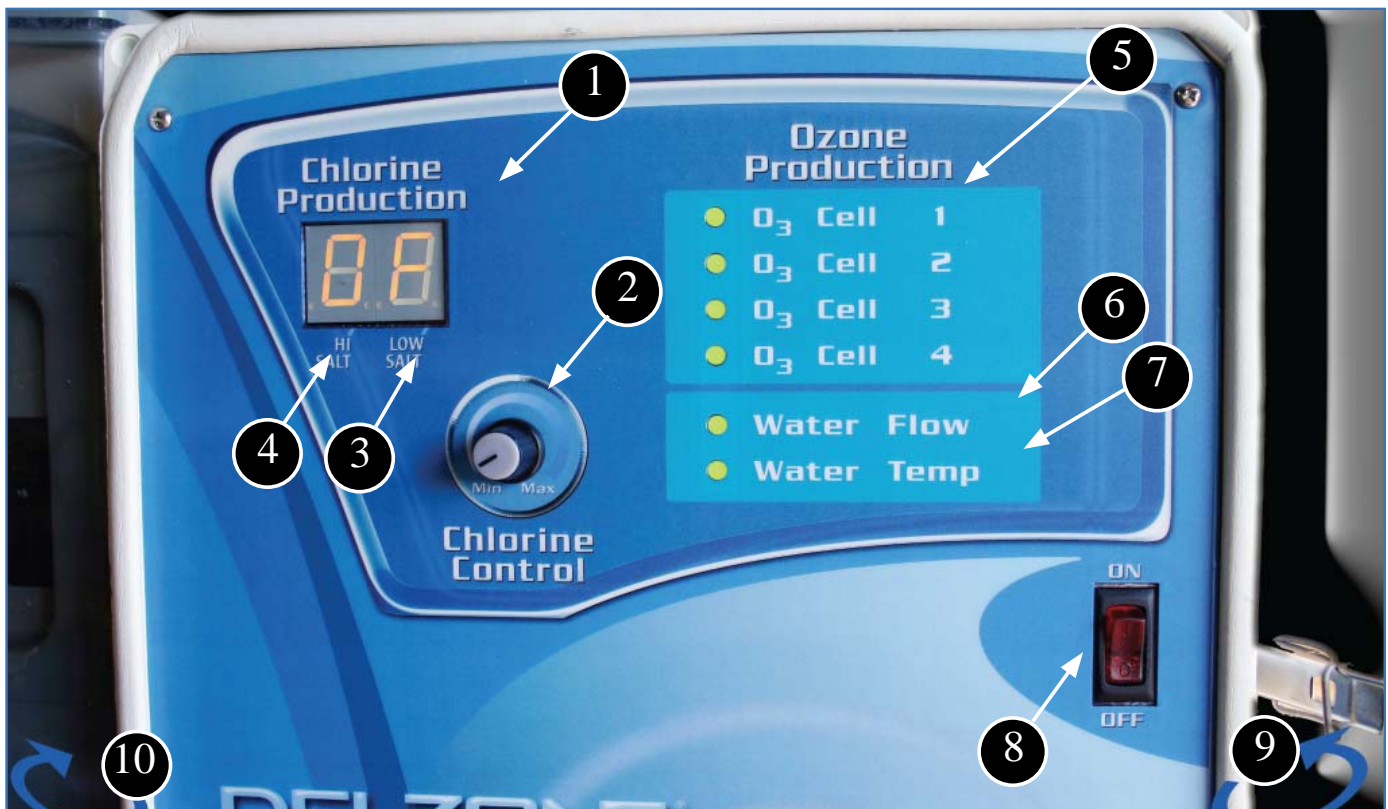


Figure 8

Step 4 - Unfasten the latch on right side of the TrioPure™ and open clear cover.



Figure 9



Figure 10

Step 5 - Turn the **Chlorine Control** knob to '**Min**' (Counter-clockwise).

Step 6 - Switch the TrioPure™ power switch to '**ON**'.

The model #, either **25** or **50**, will be displayed, followed by the firmware revision number. Then the display will show the current Chlorine Control setting (S/B: "**OF**")

Step 7 - Observe the color of the following status LED lights:

Ozone Production cell

TrioPure™-25 = O₃ Cell 1, O₃ Cell 2

TrioPure™-50 = O₃ Cell 1, O₃ Cell 2, O₃ Cell 3, O₃ Cell 4

Water Flow

Water Temperature

All above LEDs should be green. If any LEDs are red, please see the Troubleshooting section, Chapter 6A for assistance.



Figure 11

Step 8 - Look for bubbles of ozone in the water at the injector (found in the chlorinator cell). Install the flow meter at the fitting going into the Chlorinator Cell. If there are no bubbles at the injector, or only a small amount are being injected into the water stream, or the flow ball on the flow meter does not move to the proper position, go to **Trouble Shooting, Section 6A** for assistance.



Figure 12

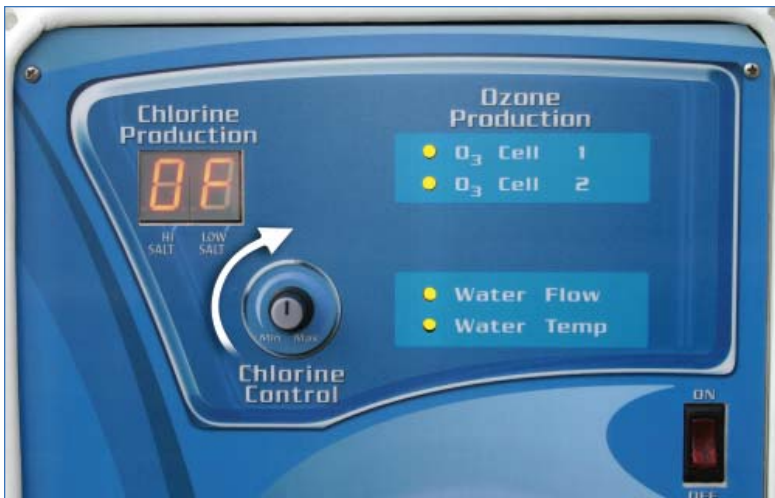


Figure 13

Step 9 - Turn **Chlorine Control** knob up about half way (pointing straight up).

Step 10 - Observe the **Chlorine Production** display; the display should come up to **5**.

Step 11 - Turn **Chlorine Control** up until display just goes to **10**.

Step 12 - Turn off pool pump - verify that all indicators remain green and that bubbles are still injected into salt cell. (See **Figure 12, Step 8**).

Step 13 - Check pool free chlorine levels every 24 hours, and adjust **Chlorine Control** knob as necessary to get between 0.5 and 1.0 PPM.

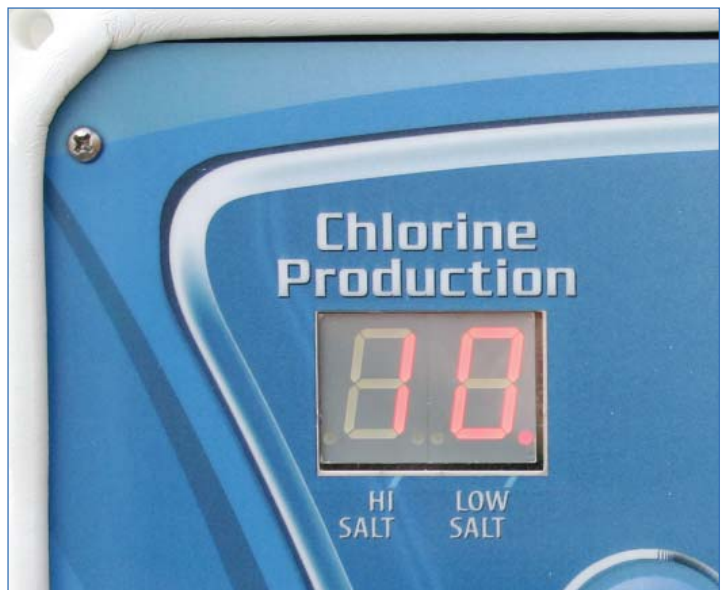
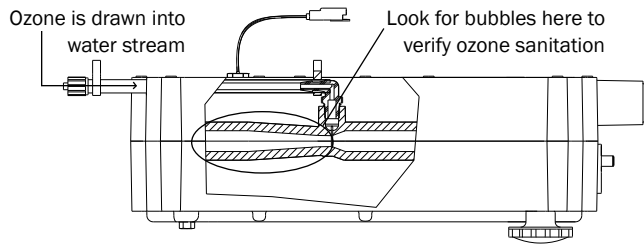


Figure 14

SECTION 5 Monitoring & Maintenance

5A Chlorinator Cell - Injection

The Chlorinator Cell should be checked frequently to verify correct operation and to spot any problems early. Look through the front of the cell at the injector (see below)



If there are no bubbles going into the water at the injector, then there is a problem with the water flow. Check for and remove anything that would restrict or block water flow, like:

- Dirt or clog in the pool filter
- Blockage at the skimmer or drain
- Scale built-up on the Chlorinator Cell plates

Calcium scale may build up on the chlorinator plates or brackets at the back of the Chlorinator Cell. Follow the steps outlined in Section 5D to remove scale. Keeping the water chemistry in the ranges shown in Section 5B will prevent rapid scale growth and reduce the amount of cleaning required.

5B Water Chemistry Parameters

VERY IMPORTANT NOTE! Your TrioPure™ is designed to provide continuous 24 hour sanitation. We recommend the following water chemistry ranges and periodic checks to monitor your systems efficiency (see table below).

Nitrates and Phosphates

Under ideal conditions, nitrate and phosphate levels in swimming pools are zero (0). However, in some geographic locations, these compounds are found in source water or are introduced from the environment. It is important for the pool owner to be aware that relatively small amounts of either nitrates or phosphates can have a significant negative impact on the performance of ozone and chlorine in swimming pools.

If you experience conditions such as cloudy water or algae growth, or are unable to maintain a measurable level of chlorine in the pool (when the TrioPure™ is working correctly) then test for nitrates and phosphates. Treat phosphates per phosphate remover manufacturer's instructions.

5C Winterization

For colder climate regions with sustained low or freezing temperatures, contact your local pool professional for proper pool winterizing instructions.

Step 1 - Drain all plumbing lines to protect the TrioPure™ and the bypass manifold from damage due to freezing.

Step 2 - Remove the chlorinator cell and let all water drain from the TrioPure™. Store Chlorinator Cell in safe place.

Parameter	Suggested Range	Check Every...	How to Adjust
Free Chlorine	0.5 - 1.0 PPM	2 - 3 days	Increase: Turn the Chlorine Control knob toward 'Max' setting (Add supplemental chlorine or non-chlorine 'shock' as needed) Decrease: Turn towards 'Min'
pH	7.2-7.6	2 - 3 days	Increase: Add soda ash Decrease: Add Muriatic acid
Total Alkalinity	80 - 120 PPM	1 - 3 months	Increase: Add bicarbonate of soda Decrease: Add Muriatic acid
Calcium Hardness	200 - 400 PPM	1 - 3 months	Increase: Add calcium chloride Decrease: Add drain & refill
Salinity	3,000 - 5,000 PPM (optimum level = 3,500 PPM)	1 - 3 months	Increase: Refer to Section 3 Decrease: Drain & refill
Stabilizer	50 - 80 PPM	1 - 3 months	Increase Add Cyanuric acid Decrease: Drain & refill
Phosphates	< 100 PPB (optimum level = 0.00)	1 - 3 months	Decrease: Add phosphate remover

5D TrioPure™ Maintenance

5d-1 Chlorinator Cell Plate Cleaning

Option 1 - (Acid Solution Injection) Adjust Chlorine Control knob to min. The display should read “OF”. Prepare a solution of four parts water to one part Muriatic Acid. Check the chlorinator cell for bubbles at the injector. Disconnect the ozone line going into the chlorinator cell. Connect the acid injection line to the line going into the chlorinator cell. Place the other end of the Acid Injection Line into the acid solution. Observe that the solution is being drawn up into the chlorinator cell. When the scale begins to fizz, turn the unit off until the fizzing subsides. Repeat until the scale is completely removed. Disconnect the cleaning kit and reattach the line to the elbow fitting. Properly clean and store the acid injection materials.

NOTE: Take precautions per muriatic acid manufacturer’s instructions. Wear protective gloves & eyewear and add acid to water. Never add water to acid.

Option 2 - (acid soaking) Turn off power (at breaker) and water to the TrioPure™. Remove the chlorinator cell per Section 5d-2. Remove the union fitting and attach an internal threaded 3/4” elbow fitting (available at hardware & farm supply stores). Prepare a solution with four parts water for each part muriatic acid. NOTE: Place the cell on a level surface with the front of the cell and the open end of the elbow pointing up.

Always add acid to water, never add water to acid. Carefully pour acid solution into the elbow fitting just until the chlorinator cell plates are submerged. Allow the plates to soak for about 30 minutes, or until effervescence stops and plates are clean. Take care not to let the acid solution into the front chamber of the chlorinator cell, as damage to the flow switch may result.

When the chlorinator cell plates appear to be clean (free of calcium deposits), pour the acid solution from the chlorinator cell into the swimming pool.



Figure 15 - Acid Injection line

Figure 16 - Chlorinator Cell Plate Cleaning



5d-2 Chlorinator Cell Removal

Step 1 - Turn the power off to the TrioPure™ and main pool circuit breaker. Close the two ball valves (if installed) to the TrioPure™ and disconnect the union going to the chlorinator cell.

Step 2 - Disconnect the Ozone Line fitting on the lower left side of the TrioPure™ by rotating the fittings halves in opposite directions and separate the two halves.

Step 3 - Remove the two electrical terminals by loosening the small hand knobs on the right side of the chlorinator cell, removing the 7/16” nuts then slipping the terminal lugs off the connector studs. Note the order of disassembly and reverse for reassembly.

Step 4 - Remove the left side attachment shaft by unscrewing the hand knob.

Step 5 - With one hand supporting the chlorinator cell in the middle, unscrew the right side attachment knob. As this knob is unscrewed, the chlorinator cell will lower.

Use caution and do not allow the weight of the chlorinator cell to stress the wires on the electrical connectors.

Step 6 - With the chlorinator cell now mechanically detached, access the two small electrical connectors for the flow switch and the temperature sensor and disconnect these connectors from the chlorinator cell. The connectors have a locking feature that must be raised to separate the connector plug and socket. Remove the chlorinator cell from the TrioPure™ enclosure.

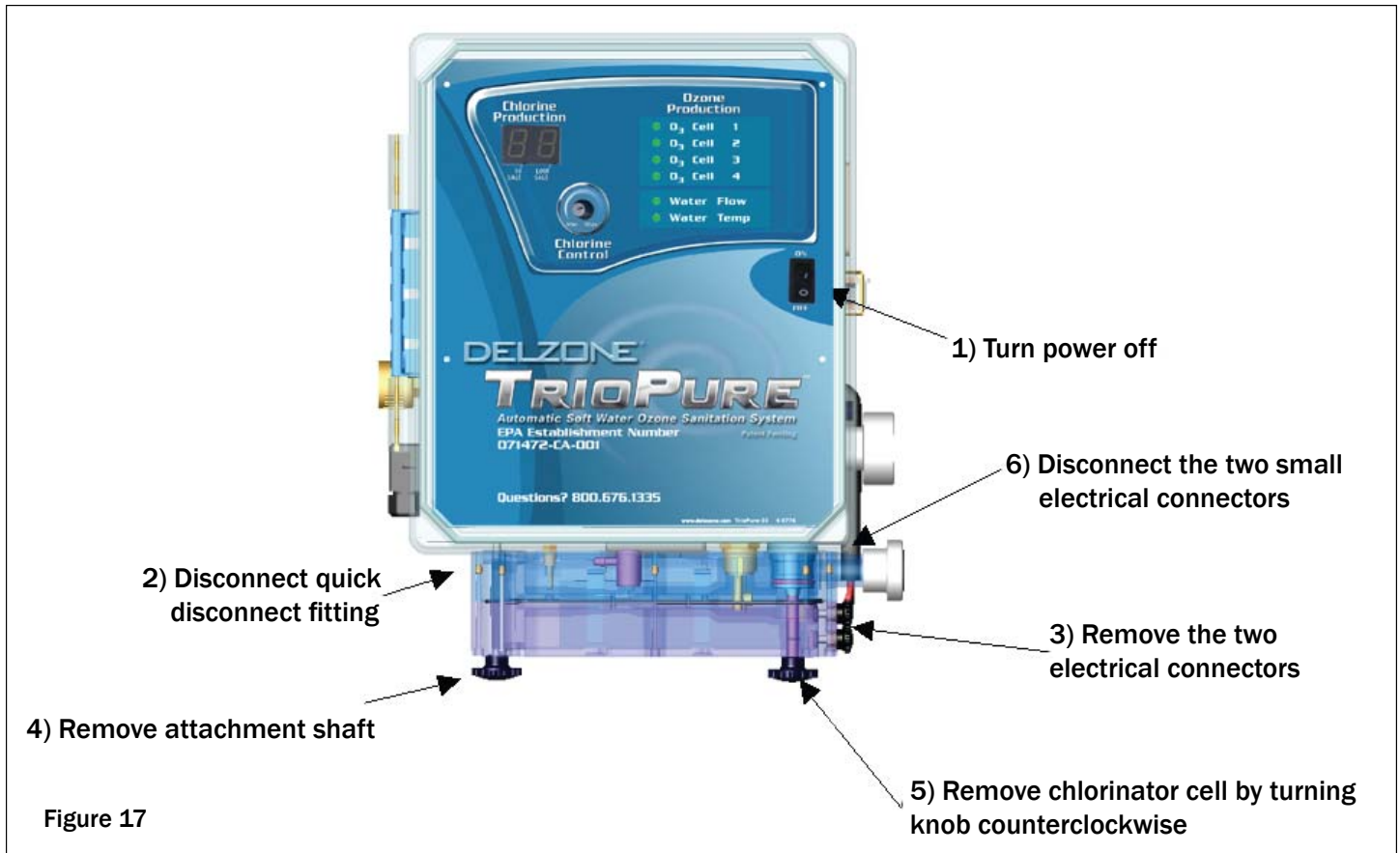


Figure 17

5d-3 Air Filters

The TrioPure™ has screen filters located at both the cooling fan air intake on the right side of the enclosure (Figure 18) and the air exhaust at the bottom of the enclosure (Figure 18). The screen filters are intended to keep insects and debris out of the TrioPure™ unit. Allowing these screen filters to become clogged could result in the TrioPure™ shutting down to protect from overheating. Annual inspection and cleaning of the screen filters is recommended as follows:

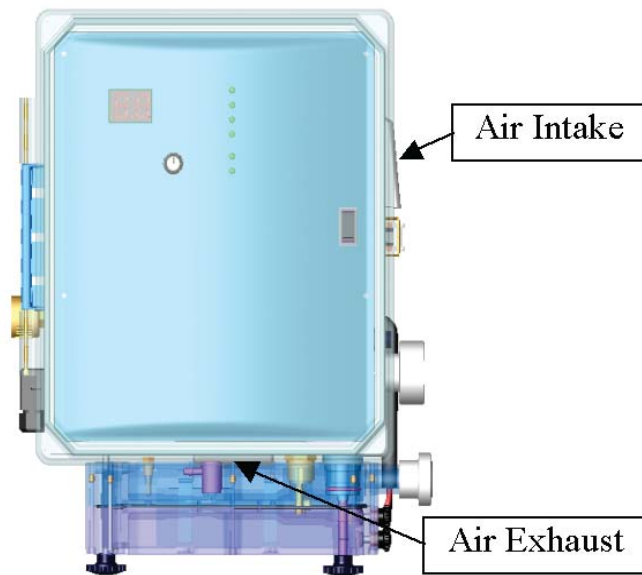


Figure 18

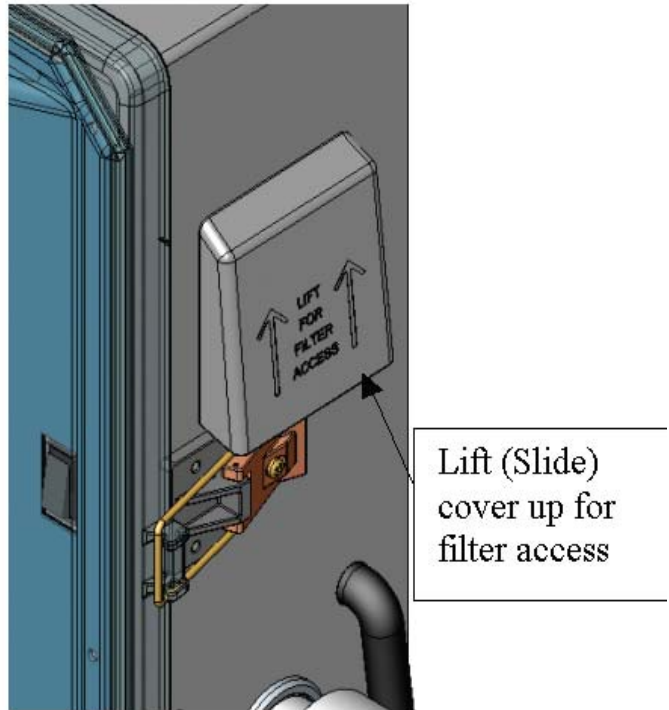


Figure 19

Air Exhaust Screen Filter:

The Air Exhaust Screen Filter should typically not require servicing. After removing the Chlorinator Cell (See Section 5d-2), visually check the filter for debris. If the filter appears to require cleaning then remove plastic filter keeper by lightly prying it out. Remove the screen filter, clean and replace.

Air Intake Screen Filter:

Turn off power to the TrioPure™. Remove the cover by sliding the cover up (Figure 19). Once the cover is removed visually check the filter for debris. If the filter appears to require cleaning, carefully remove plastic filter keeper (Figure 20) by lightly prying it out. Remove the screen filter and clean it. Replace filter, keeper and cover.

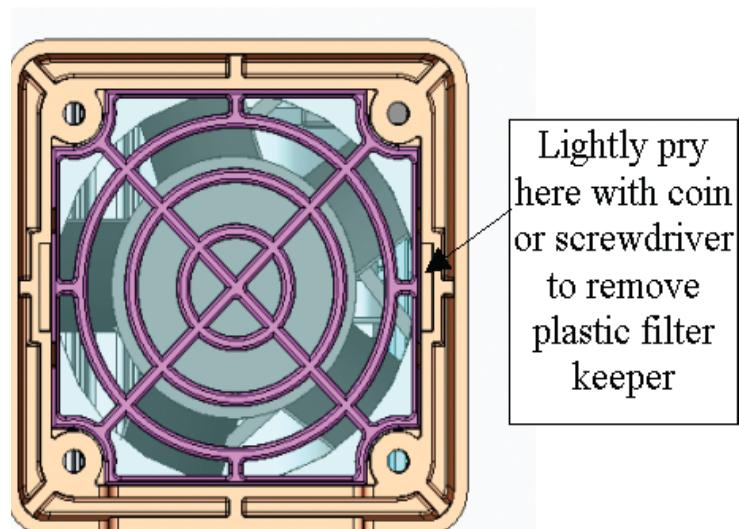

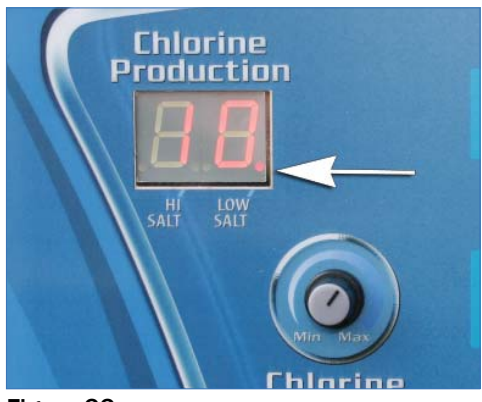



Figure 20

SECTION 6 Troubleshooting

Problem	Cause	Solution(s)
<p>High-Salt Indicator LED is flashing</p>  <p>Figure 21</p>	<p>A) The TrioPure™ has detected a possible high salt condition.</p> <p>B) There is excessive scale build-up or debris on the chlorinator cell plates.</p>	<p>A) Check the salt level (salinity) of the pool water with a test strip or digital meter. Never dilute the pool water without verifying the salt level with a digital meter or test strip first. If the salt level is over 5,000 ppm add fresh water, run the pool pump for 24 hours, then check the salt level again. Repeat as needed to reduce the salt level to within 3,000 to 5,000 ppm. Note: Water must be pumped out of the pool before fresh water can be added to dilute the pool.</p> <p>B) If the tested salt level is within specified limits, check the chlorinator cell plates for scale formation or debris caught between the plates. Clean as required (refer to Section 5d-1) Add Del-Quest as needed. Note: High Salt Indicator may flash momentarily when adjusting the Chlorine Control.</p>
<p>Low-Salt Indicator LED is flashing</p>  <p>Figure 22</p>	<p>A) The TrioPure™ has detected a possible low salt condition.</p> <p>B) Low Water Temp.</p> <p>C) Low Power Setting</p>	<p>A) Check the salt level (salinity) of the pool water with a test strip or digital meter. Never add salt to the pool without verifying the salt level. If the salt level is below 3,000 ppm add salt, run the pool pump for 24 hours, then check the salt level again. Repeat as needed to bring the salt level to within 3,000 to 5,000 PPM.</p> <p>B) Check the pool temperature. If the pool water temperature is low, combinations of low temperature and/or Chlorine Control setting can cause the Low Salt LED indicator to flash.</p> <p>C) If Chlorine Control knob setting is set at the lower end of the scale (from 1 to 4), then disregard the Low Salt indicator. Combinations of low temperature and/or Chlorine Control setting can cause the Low Salt LED indicator to flash.</p>
<p>Ozone Production Cell Indicators Turn Red (O₃ Cell 1–O₃ Cell 4 for TrioPure™-50 & O₃ Cell 1–O₃ Cell 2 for TrioPure™-25)</p>  <p>Figure 23</p>	<p>A) The ozone CD cell has a blown fuse or fuse clip is loose.</p> <p>B) There is a faulty ozone power supply.</p>	<p>A) Turn unit off, open the enclosure, remove the front panel and examine fuse on ozone board. Replace as necessary, then pinch the fuse clips so the fuse snaps into place then close up the TrioPure™ and restore power.</p> <p>B) If replacement fuse blows (indicator goes red) on power up, replace the ozone cell. Call for service. The TrioPure™ will continue to work with the remaining ozone CD cells.</p>

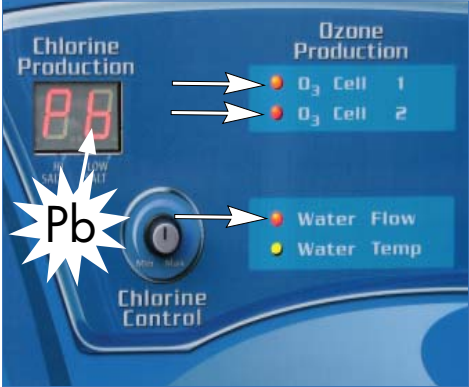
Problem	Cause	Solution(s)
<p>Water Flow Indicator turns red and Chlorine Production flashes Pb and all O3 indicator LEDs turn red.</p> 	<p>A) Water flow to the TrioPure™ was restricted due to an obstruction or a suction side air leak.</p>	<p>A) Turn off the TrioPure™ and main pool circuit breaker. Check pool equipment for obstructions and/or air leaks and remove as necessary. Check filter, clean or pump to waste as required. Turn the pool pump on and then the TrioPure™ on – both Water Flow and Ozone Production cell indicators should return to green.</p>
	<p>B) Flow switch has become disconnected from the TrioPure™ enclosure.</p>	<p>B) Turn off the TrioPure™ and main pool circuit breaker. Check the wiring from the flow switch to the main harness on the right side of the enclosure and reconnect if necessary. Turn the power on to the TrioPure™ and main pool circuit breaker and check that both Water Flow and Ozone Production cell indicators are green.</p>
	<p>C) Internal pump is inoperable or impellor is clogged.</p>	<p>C) Call for service.</p>

Figure 24

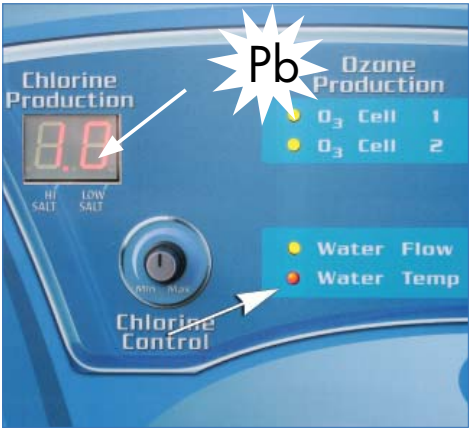
Problem	Cause	Solution(s)
<p>Water Temperature Indicator turns red and Chlorine Production displays Pb and all O3 indicator LED's stay green.</p> 	<p>A) Water is too hot.</p>	<p>A) Lower the pool's water temperature to less than 104 °F. The Water Temp indicator should return to green when the pool temperature is back within the TrioPure™'s specified limits.</p>
	<p>B) Water is too cold.</p>	<p>B) Raise the pool's water temperature to more than 59 °F. The Water Temp indicator should return to green when the pool temperature is back within the TrioPure™'s specified limits. Note: If you intend to operate the TrioPure™ all winter without heating the water, turn the Chlorine Control knob fully counter-clockwise to the OFF position and use only the ozone for sanitizing. The Water Temp light will remain red until the water temperature is above 59 °F.</p>
	<p>C) Temperature sensor has become disconnected.</p>	<p>C) Verify connections are correct and secure.</p>

Figure 25


Problem	Cause	Solution(s)
<p>Chlorine Production display reads CL</p> 	<p>A) The salt chlorinator is in Cleaning mode.</p>	<p>A) The TrioPure™ will shut off power to the salt chlorinator when in Cleaning mode. If the Chlorine Control display shows CL longer than 24 hours, contact our telephone support number, 800.676.1335 ext. 293, for service.</p>

Figure 26

SECTION 6 Troubleshooting continued


Problem	Cause	Solution(s)
<p>Chlorine Production display reads OL</p> 	A) The Salt Chlorinator plates have scale build-up.	A) Look through the salt chlorinator cell, checking for any white scale build-up on the plates. If scale build-up is found, clean the chlorinator cell plates per Section 5d-1. Add Del-Quest as needed. Check and balance pool chemistry as required after cleaning.
	B) The Salt Chlorinator plates are shorting out due to a foreign object lodged in the cell.	B) Look through the salt chlorinator cell, checking for any object that may have gone through the filter and become stuck in the salt chlorinator plates (i.e., hair-pin, paper clip, etc.). Contact our telephone support number, 800.676.1335 ext. 293, for service.
	C) Cell terminals have become loose, disconnected, or corroded.	C) Tighten, reconnect and/or clean as necessary.
	D) Voltage ramping too fast (chlorine control on max).	D) Switch power off and turn down the Chlorine Control knob. Switch power back on and wait 2 min. for unit to come out of clean mode ("CL"). Turn the Chlorine Control back up until the display just turns to 10 .

Figure 27


Problem	Causev	Solution(s)
<p>Chlorine Production display will not read all the way to 10</p> 	A) Pool water low salinity, low temperature, or calcium build-up on the chlorinator cell are restricting the amount of current drawn at the chlorinator cell.	A) Check the pool salt level (salinity) and water temperature. If either level is low this may affect the amount of chlorine production. If the tested free chlorine level is too low or if the pool shows signs of insufficient chlorine production (algae cloudy water condition) in the pool water you may increase the salinity slightly in order to make the TrioPure™ produce more chlorine. Add salt in small (25-50 pound) increments and allow 24 hours for the salt to dissolve before taking the next reading and making any more adjustments. Always keep the salinity below 5,000 ppm. If there is scale build-up, clean chlorinator cell per Section 5d-1 and add Del-Quest as needed.
	B) Poor connection at chlorinator cell terminal post.	B) Clean and/or tighten connectors.

Figure 28


Problem	Cause	Solution(s)
<p>Indicator lights on front panel are not on.</p> 	A) The TrioPure™ is switched off.	A) Open the TrioPure™ and turn the power switch on.
	B) The TrioPure™ is not getting power.	B) Check main pool circuit breaker.
	C) Internal temperature limit has been exceeded.	C) Allow the unit to cool down and re-start automatically
	D) Main fuse is blown.	D) Check main fuse and replace if necessary. Note: A blown fuse can be caused by excessive salt levels above 5,000 ppm with the Chlorine Control knob set to full power (10). Install 1 1/2 A for 240v & 3A for 120V input voltage. Call service if the main fuse blows repeatedly

Figure 29

SECTION 7 Technical Support, Ordering Replacement Parts & Warranty Information

7A Contacting Technical Support

The majority of TrioPure™ problems can normally be addressed and resolved by e-mail, over the phone, or by visiting our web site: www.delozone.com. Please have the following information at hand before contacting Technical Support:

- | | |
|---|---|
| 1. Your name, mailing address and telephone number. | 6. Pool Salt Level. |
| 2. The selling dealer's name and name of installer. | 7. Pool pH, Chlorine Level, Total Alkalinity. |
| 3. Model# (Trio™-25, Trio™-50), serial # and proof of date of purchase. | 8. TrioPure™ Chlorine Production reading. |
| 4. Date code on TrioPure™ Chlorinator Cell. | 9. Status of TrioPure™ Ozone cell LEDs. |
| 5. The date and description of the failure. | 10. Status of TrioPure™ Water flow & temp LEDs. |

If the warranty problems cannot be resolved by our Technical Support Personnel then DEL will arrange for an Authorized Service Center to schedule a service call. If a service provider isn't available within a reasonable distance (as determined by DEL Ozone), the product must be sent to the factory for evaluation / repair per the terms below.

Authorization to return a unit or part to the plant of manufacture must be obtained from DEL Ozone Field Service. DEL Ozone will release a RETURN MATERIALS AUTHORIZATION (RMA) NUMBER. After receiving the RMA number the product or part in question must be returned to Del Ozone, freight prepaid, with the RMA number clearly marked on the outside of the package. All pre-authorized defective parts must be returned to DEL Ozone within thirty (30) days and be packaged to prevent shipping damage. Under no circumstances may any product be returned to DEL Ozone without prior authorization. You must call or write DEL Ozone prior to returning product or your returned goods shipment will be refused. Upon receipt of pre authorized returned goods, DEL Ozone will repair or replace, at Del Ozone's option, the product(s) proven to be defective in materials or workmanship and return them (freight prepaid for products under warranty). Buyer's acceptance of the product and use thereof constitutes acceptance of these terms.

By Phone: 800.676.1335 ext. 293 Monday through Friday 8:00am - 4:30pm, PST. Outside of these hours, please leave callback information. A Technical Support representative will return your call at the first available opportunity.

E-mail: triopure@delozone.com. A Technical Support representative will reply by way of e-mail.

7B. Ordering information:

To locate a dealer nearest you visit www.delozone.com or call DEL at **1-805-541-1601, ext 249**.

Be prepared with the following information:

- **Name**
- **Address**
- **DEL Model #**
- **Date Purchased**

Please visit www.delozone.com for the most recent and up-to-date information on the installation of your TrioPure™

7C. Standard replacement parts list:

		TrioPure-25	TrioPure-50
1.	Assembly, Ozone Cell-Pwr Supply O-rings, and Fuse	9-0649	9-0649
2.	Chlorine Control-Display PCB	9-0665-01	9-0665-02
3.	Ozone Control-Display PCB	9-0664-01	9-0664-02
4.	Salt-Chlorination Cell and Flow Switch	9-0663-01	9-0663-02
5.	Filter Media, Vent-Fan	7-1217	7-1217
6.	Bypass Manifold	9-0645-01	9-0645-01
7.	Chlorine Control Knob	7-1234	7-1234
8.	Mixing Degas Vessel (MDV)	MDV-30	MDV-30
9.	Installation/Operation Manual	4-0777	4-0777

7C. Standard replacement parts list (Continued)

TrioPure-25 TrioPure-50

10.	Fuse 3.0 A (for 120V) SLO BLO	5-9019	5-9019
11.	Fuse 1.5 A (for 240V) SLO BLO	5-9020	5-9020
12.	Fuse 0.5 A, Ozone cell	5-0180	5-0180
13.	Tubing - 3/16"ID x 5/16"OD Black Air Tubing for Ozone Inlet	7-0079	7-0079
14.	Ozone Tubing/Check Valve Replacement Kit	9-0674-01	9-0674-01
15.	Acid Cleaning Kit	9-0653	9-0653
16.	Pump assembly	5-1650-01	5-1650-01
17.	Return T-fitting	7-1209	7-1209

7D. DEL Ozone TrioPure™ Limited Warranty

The limited warranty set forth below applies to products manufactured by DEL Ozone - 3580 Sueldo St., San Luis Obispo, California 93401, and sold by DEL Ozone or its authorized dealers. This limited warranty is given only to the first retail purchaser of such products and is not transferable to any subsequent owners or purchasers of such products.

DEL Ozone warrants that it or its authorized dealers will repair or replace, at its option, any part of such products proven to be defective in materials or workmanship within ONE (1) year from the date of retail purchase of such products. (All parts) ANY REPAIR OR REPLACEMENT WILL BE WARRANTED ONLY FOR THE BALANCE OF THE ORIGINAL WARRANTY PERIOD. NOTE: USE ONLY DEL Ozone AUTHORIZED REPLACEMENT PARTS. USE OF ANY OTHER PART(S) WILL AUTOMATICALLY VOID THIS WARRANTY.

THIS LIMITED WARRANTY DOES NOT INCLUDE ANY OF THE FOLLOWING: (a) any labor charges for troubleshooting, removal, or installation of such parts; (b) any repair or replacement of such parts necessitated by faulty installation, improper maintenance, improper operation, misuse, abuse, negligence, accident, fire, repair materials, and/or unauthorized accessories; (c) any such products installed without regard to required local codes and accepted trade practices; (d) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE, AND SUCH WARRANTIES ARE HEREBY DISCLAIMED; AND (e) DEL Ozone SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR LOSS OF USE OF SUCH PRODUCTS, LOST PROFITS, DIRECT DAMAGES, INDIRECT DAMAGES, CONSEQUENTIAL DAMAGES AND/OR INCIDENTAL DAMAGES.

TO OBTAIN WARRANTY SERVICE

**Contact DEL Ozone • 3580 Sueldo St. • San Luis Obispo, CA • 93401
Customer Service Number: 1-805-541-1601, extension 293**

When filing a claim, you must provide:

1. your name, mailing address, and telephone number
2. the selling dealer's name
3. model # (Trio-25 or Trio-50), serial number, and proof of date of purchase
4. the date of failure
5. a description of the failure

After this information is provided, DEL Ozone will release a RETURN GOODS AUTHORIZATION (RGA) NUMBER. After receiving the RGA number the part in question must be returned to DEL Ozone, freight prepaid, with the RGA number clearly marked on the outside of the package. All preauthorized defective parts must be returned to DEL Ozone within thirty (30) days. Under no circumstances may any product be returned to Del Ozone without prior authorization. You must call or write DEL Ozone prior to returning product or your returned goods shipment will be refused. Upon receipt of preauthorized returned goods, DEL Ozone will repair or replace, at Del Ozone's option, the defective product(s) and return them freight (prepaid for products under warranty). Buyer's acceptance of the product and use thereof constitutes acceptance of these terms.

TO VALIDATE THIS PRODUCT WARRANTY

Registration should be completed for each TrioPure™ product purchased. You may register your products online at www.delozone.com or use the Product Registration card included with each TrioPure™ manual for Registration by mail.

TrioPure™ Warranty Registration Card

IMPORTANT: Please fill in your Model and serial number in the boxes provided. The Model is located on the front panel. The TrioPure™ serial number is located on the left side of the unit. The Salt Chlorinator Mfg Date is located on the bottom of the salt cell.

The TrioPure™ conditions and exclusions are located on the warranty page of your Installation and Operation Manual. Please review it thoroughly to become familiar with the terms and conditions of your warranty coverage.

Trio-25 Trio-50 Serial Number: _____ Salt Chlorinator Mfg Date: _____

Name _____

Street Address _____

City _____ State _____ Zip _____

Phone _____ email: _____

Date of Purchase: _____

Installed by:

Name of Company: _____ Date of installation: _____

Address: _____

Phone Number: _____

Type of Pool: Above ground: In ground: Fiberglass: Vinyl: Gunite: New Construction:
Remodeled Pool: Retrofit to existing Pool:

Where Purchased: Installed with Pool: Pool Store: Pool Service Company:

Owner' Knowledge Level/Experience: First Time Pool owner: Have owned pools before:

Previous Pool Sanitation Method (mark all that apply)

Hand fed chlorine products (liquid, granules, tablets): Chlorine Feeder: Ozone Generator: Ion Generator:
Chemical Matrix (Frog or Nature 2): Salt Chlorine Generator:

To activate your TrioPure™ Limited Warranty please mail this form to DEL Ozone, Inc. at the address below, or register online at www.delozone.com

DEL Ozone, Inc
Attention: TrioPure Warranty Registration
3428 Bullock Lane
San Luis Obispo, CA. 93401

