

T3

Corona Discharge Ozone Generators

INSTALLATION MANUAL



IMPORTANT SAFETY INSTRUCTIONS

When installing and operating the DEL T3 ozone generator, basic precautions should always be followed:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. All permanent electrical connections should be made by a qualified electrician.
3. Follow all applicable electrical codes.
4. Be sure the electrical power is shut OFF at the main circuit breaker before installing the T3.
5. If the T3 electrical connection is to be attached to the spa controls, be sure the spa controls are protected by a Ground Fault Circuit Interrupter (G.F.C.I.). If the T3 is connected to an independent electrical supply, then a G.F.C.I. must be installed between the T3 and the electrical supply.
6. WARNING - To reduce the risk of electrical shock, replace damaged cord immediately.
7. The T3 must be mounted indoors or, under a cover, sheltered from natural elements (rain, sun, sprinklers).
8. Mount the T3 so that it is inaccessible to anyone in the spa.
9. Install a check valve in the tubing between the T3 and the vacuum source.
10. Plastic ozone supply tubing is available with the T3. Never replace this tubing with metal tubing.
11. Do not operate the T3 unless sufficient air flow is being drawn through the unit.
12. WARNING: Short term inhalation of high concentrations of ozone and long term inhalations of low concentrations of ozone can cause harmful physiological effects. Do not inhale ozone gas produced by this device.

SAVE THESE INSTRUCTIONS.

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Installation Instructions

WARNING: If the T3 is equipped with a voltage selector switch, set this switch to the appropriate voltage prior to installation.

1. Mounting

- a. Mount the T3 vertically with the power cord on bottom as shown in Figure 1. Use both mounting flanges.
- b. Mount as high as possible within the protected equipment area.

2. Plumbing - DEL Mixing System

- a. For optimal dissolution of ozone into the water, install the DEL Mixing System in the water circulation line as generally shown in Figure 2.
- b. For other circulation systems or vacuum sources, DEL Industries provides a wide range of installation kits. Contact DEL Customer Service for assistance.

3. Plumbing - Ozone Generator

- a. Connect ozone compatible tubing (1/4" or 3/8" internal diameter) to the lower hose barb on the T3.
- b. Run tubing to the ozone injector or appropriate vacuum source.
 - i. If the ozone generator is mounted above the water line, tubing may be run directly to the vacuum source.
 - ii. If ozone generator is mounted below the water line, run tubing to a point above the water line and back down to the vacuum source.
- c. Install check valve in the tubing close to the vacuum source. Ensure flow direction is from the T3 to the vacuum source.
- d. Secure all tubing connections with hose clamps.

4. Electrical

- a. Verify that there is no power to the spa and connect the T3 cord into the mating connector(s) on the spa control box.
- b. Where possible, route the T3 power cord away from other electrical lines. Avoid routing the power cord parallel to any low voltage signal wires.

5. Operation

- a. With the spa filled to the proper level, run the spa controller through several cycles.
 - i. Verify that the blue light on the T3 turns on and off as required by the controller.
 - ii. Verify that gas is flowing into the injector (there should be no water in the tubing, and very small bubbles at the return).
 - iii. Verify that water does not push past the check valve during any spa cycle.
 - iv. Check for and correct any leaks.

Figure 1

T3 Mounting Orientation

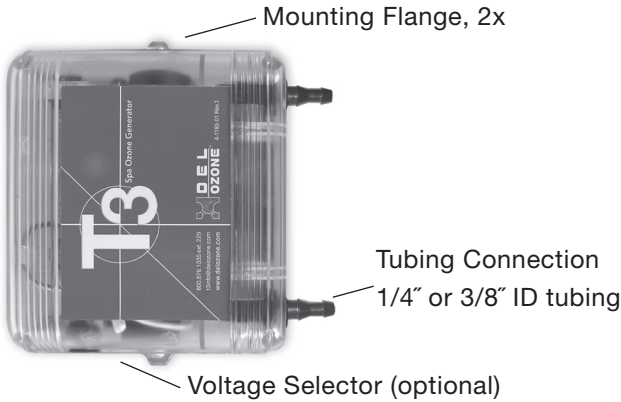
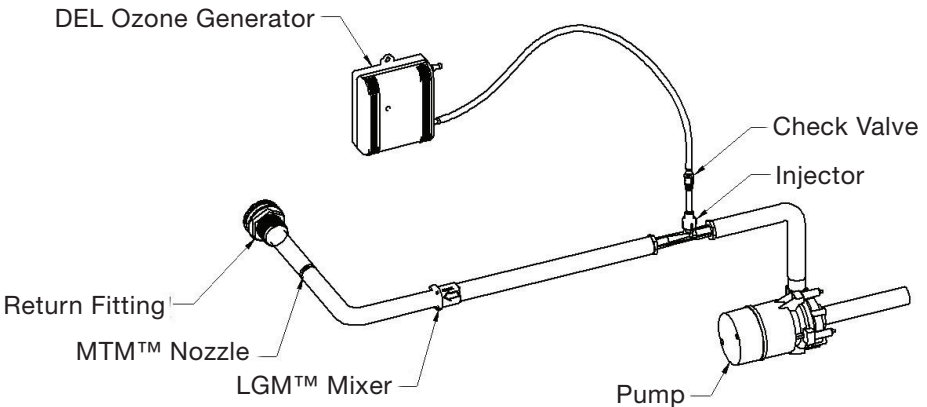


Figure 2

DEL Optimized Mixing System



LIMITED WARRANTY INFORMATION

The limited warranty set forth below applies to products manufactured by DEL Ozone - 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, PO Box 4509, San Luis Obispo, CA 93401

Customer Service Number: (800) 676-1335 ext. 249

When filing a claim, you must provide: 1) your name, mailing address and telephone number 2) the selling dealer's name 3) 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 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 its 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.

DEL Ozone WARRANTY REGISTRATION CARD Product Serial Date:

Fill out completely and return to DEL Ozone within ten (10) days of purchase.

Customer Info:

Name _____ Phone () _____

Address _____

City _____ State _____ Zip _____

Dealer Info:

Dealer Name _____ Phone () _____

Dealer Address _____

City _____ State _____ Zip _____

Purchase/Product Info:

Purchase Date _____ Date Installed _____

Comments / Questions:

DO NOT FORGET TO CUT OUT, PLACE IN ENVELOPE AND MAIL TO THE FOLLOWING ADDRESS FOR INSTANT WARRANTY COVERAGE!

DEL Ozone

ATTN: Warranty Dept.

PO Box 4509

San Luis Obispo, CA 93401-9787



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