

Ozone Systems

Installation & Maintenance Manual

PRO-10, PRO-12, PRO-14 Recirculation System

Timed recirculation system for use with ozone generator on water storage tanks



ClearWater Tech, LLC.
Integrated zone Systems

INTRODUCTION

The PRO-10/PRO-12/PRO-14 is a recirculation system kit for use with ClearWater Tech ozone generators in the 0.25 to 8.0 grams per hour range. It consists of a pump with an injector/check valve assembly attached and a timer/controller.

RECOMMENDED SIZING

- For one or more tanks totaling **up to 300 gallons**, use a ClearWater Tech **S-1200** ultraviolet ozone generator
- For one or more tanks totaling **up to 600 gallons**, use a ClearWater Tech **CS-1400** ultraviolet ozone generator.
- For one or more tanks totaling **up to 900 gallons**, use a ClearWater Tech **CD10/AD** corona discharge ozone generator.
- Larger generators are available.

THE PRO-10/PRO-12/PRO-14 KIT

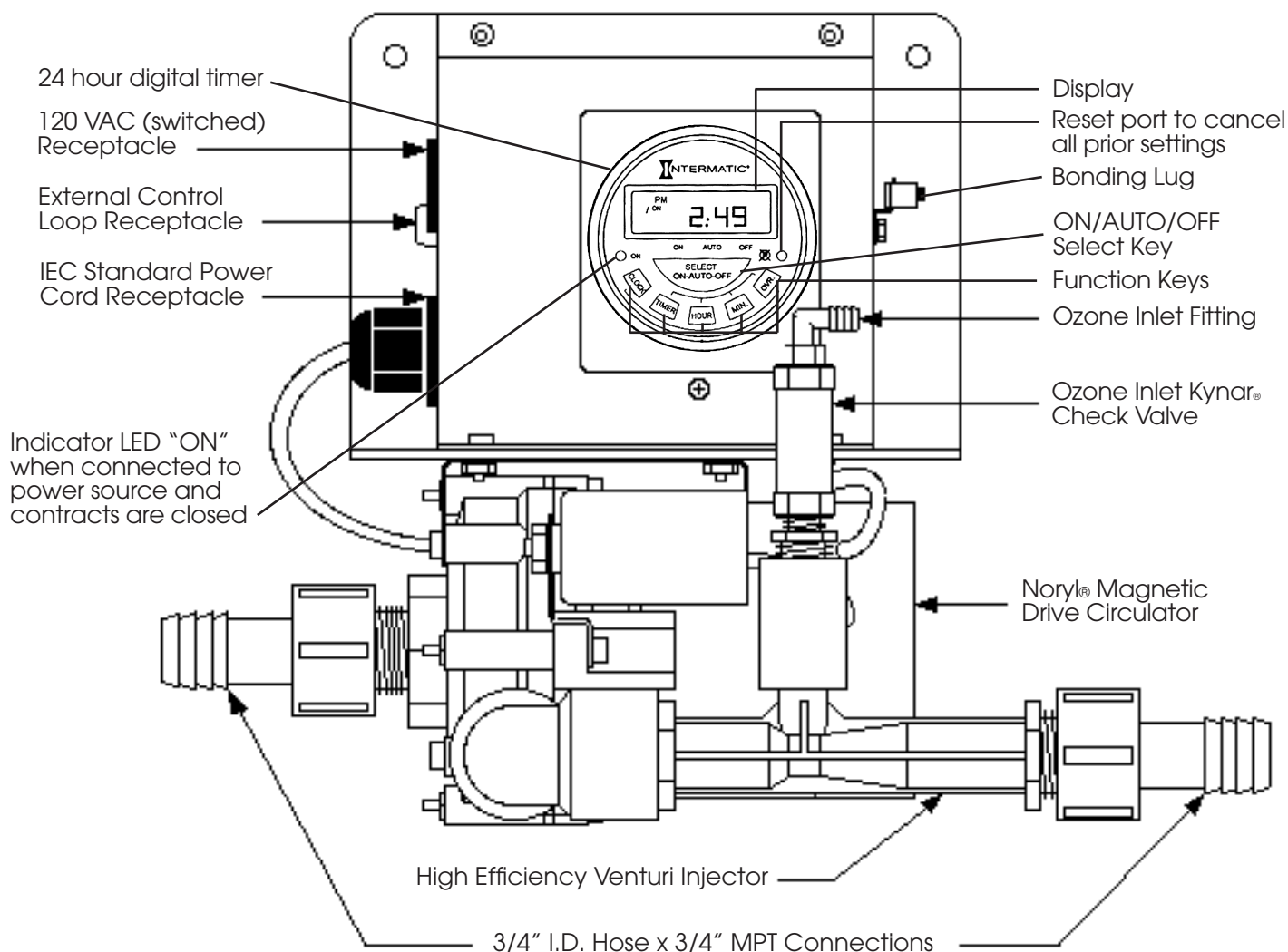
The PRO-10/PRO-12/PRO-14 kit consists of the following components:

- 1 PRO-10 (120 VAC/60 Hz), PRO-12 (240 VAC/50 Hz) or PRO-14 (240 VAC/60 Hz) unit
- 1 Kynar® check valve assembly with ozone inlet fitting (1/4" barb fitting for ultraviolet ozone generators or 1/4" O.D. Kynar® compression fitting for CD10/AD corona discharge ozone generator)
- 1 IEC standard power cord (120 VAC NEMA or selection of 240 VAC 50 Hz configurations are available)
- 20' 3/4" I.D. braided PVC tubing
- 4 3/4" tubing nipple x 3/4" male thread fittings for tubing (two are installed on PRO-10/PRO-15)
- 4 Hose clamps for above fittings

When opening the package, check to make sure all of the above components are included. Do not throw away any packaging until all components are found in case some have become hidden in the packing materials.

INSTALLATION

1. Securely mount the PRO unit and the ozone generator adjacent to each other on a sheltered surface, within 5' of the tank(s) if possible, below the normal median water level (no higher than 3' from the bottom) of the tank(s).
2. Install the supplied ozone check valve / ozone inlet fitting assembly into the injector on the PRO unit as shown in the illustration below. Connect the ozone supply tubing from the ozone generator to this ozone inlet fitting on the PRO unit.
3. Using Teflon® tape on the threads, install the other two 3/4" tubing nipple x 3/4" male thread fittings into the inlet and outlet fittings on the water tank.
4. Cut the 3/4" tubing supplied with the PRO unit to fit between the unit and the tank as shown in the illustration below. Install with the supplied hose clamps on all four ends to secure tubing.
5. Refer to the illustrations on the following pages. If you are using a ClearWater Tech ULTRAVIOLET ozone generator, plug the power cord from the ozone generator into the convenience socket on the PRO unit. **If you are using a ClearWater Tech CD10/AD, M-15/AD or CD15/AD CORONA DISCHARGE ozone generator, it must be plugged into a continuously powered electrical source, as the air dryer in the unit must run at all times.** If a CD10/AD, M-15/AD or CD15/AD ozone generator is being used, connect the external control loop connecting wire between the external control loop receptacles on the ozone generator and the PRO unit.



INSTALLATION

PROGRAMMING INSTRUCTIONS:

To Set or Change the Time: To clear entire memory, press reset key. Hold down the CLOCK key while pressing either the HOUR or MINUTE keys. Continue pressing until the desired number is shown. Then simply lift finger off the CLOCK key to set.

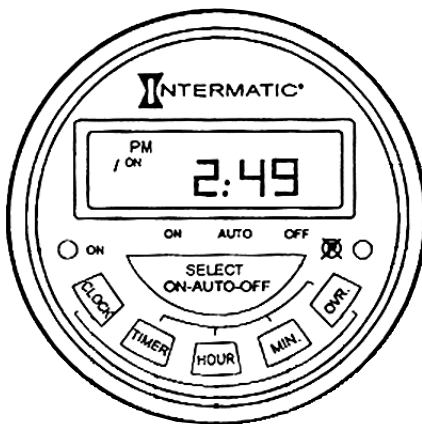
To Set program (On/Off Times): Press TIMER key once to enter into program mode. Display will show "1 ON - - -". Press the HOUR key and then the MINUTE key to select the desired first ON time. Press TIMER key once. Display will show "1 OFF - - -". Repeat previous step to select the desired first OFF time. Repeat the entire sequence to complete up to eight ON/OFF times as desired. When programming is done, press the CLOCK key then the SELECT key repeatedly until the indicator bar is above the word "AUTO".

To Review Program: Press TIMER key repeatedly. When done, press the CLOCK key to return to the time of day.

To Cancel/Change Part of the Program: Press TIMER key repeatedly until the particular ON or OFF time appears. Set new ON or OFF time. (See: to set programs)

To Override Automatic Operation: Press SELECT key to move indicator bar to the desired ON or OFF position. Note: Timer will not resume automatic operation until indicator bar is repositioned above the word AUTO.

To Override Timer Status (On or OFF): Press "OVR", key. Timer will resume automatic operation with the next opposite set point.





ClearWater Tech CD10/AD
corona discharge ozone generator

NOTE: C10/AD is supplied with
1/4" Teflon ozone supply tubing,
while the ultraviolet ozone generators
are supplied with 1/4" braided tubing

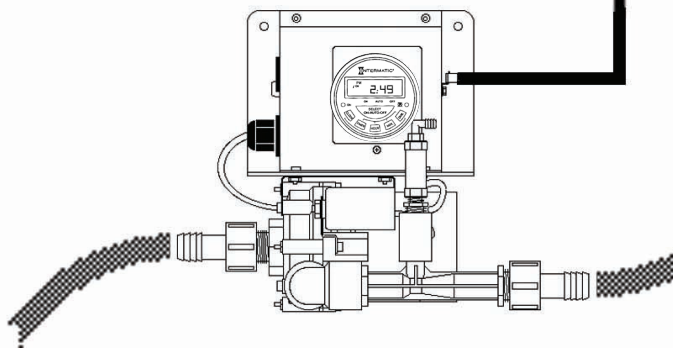


Connect ozone supply tubing from
ozone generator to PRO-10/PRO-12

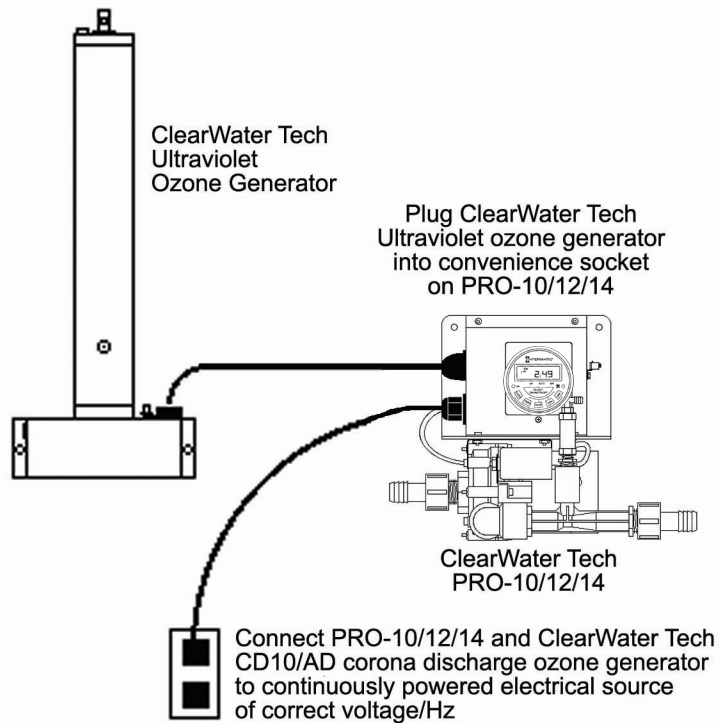
Ozone



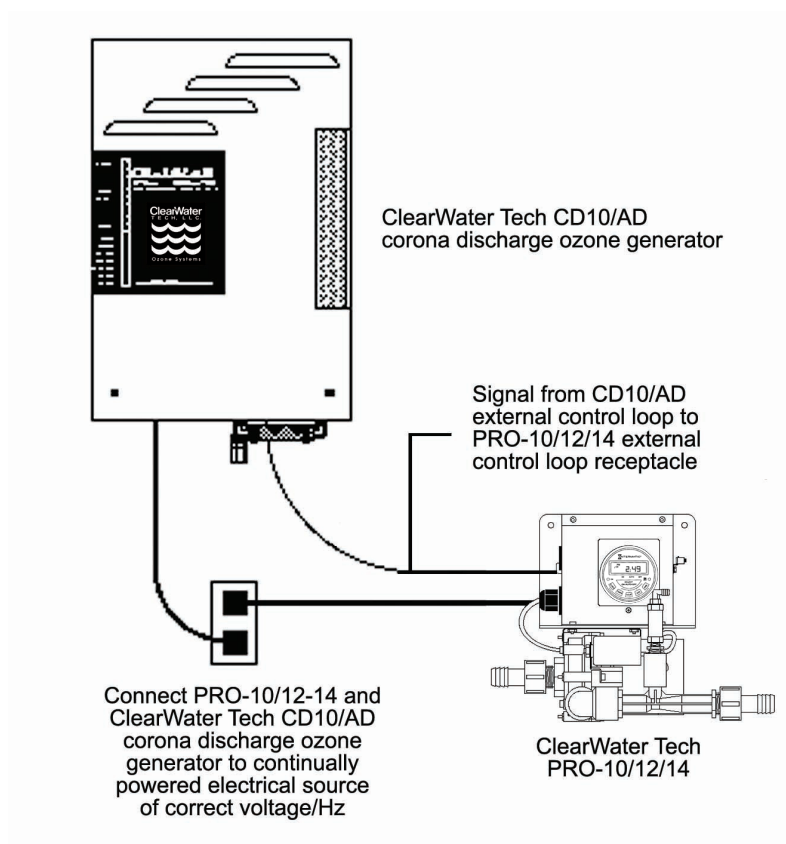
ClearWater Tech
PRO-10/12/14



ELECTRICAL CONNECTIONS WITH ULTRAVIOLET OZONE GENERATOR



ELECTRICAL CONNECTIONS WITH CD10/AD CORONA DISCHARGE OZONE GENERATOR



ClearWater Tech, LLC Limited One-Year Warranty

Summary of the Warranty

ClearWater Tech, LLC ("CWT") makes every effort to assure that its products meet high quality and durability standards and warrants the products it manufactures against defects in materials and workmanship for a period of one (1) year, commencing on the date of original shipment from CWT, with the following exceptions: 1) The warranty period shall begin on the installation date if the installation is performed within 90 days of the original shipment from CWT; 2) The warranty period shall begin on the date of the bill of sale to the end user if the installation date is more 90 days after the original shipment date. To validate the warranty, a warranty card, accompanied by a copy of the bill of sale, must be returned to CWT and must include the following information:

- End user name
- Complete address, including telephone number
- Date installed
- Complete model and serial number information
- Name of company from which the unit was purchased

Repairs and replacement parts provided under this warranty shall carry only the unexpired portion of this warranty or 90 days, whichever is longer.

Items Excluded from the Warranty

This warranty does not extend to any product and/or part from which the factory assigned serial number has been removed or which has been damaged or rendered defective as a result of:

- An accident, misuse, alteration or abuse
- An act of God such as flood, earthquake, hurricane, lightning or other disaster resulting only from the forces of nature
- Normal wear and tear
- Operation outside the usage parameters stated in the product user's manual
- Use of parts not sold by CWT
- Service or unit modification not authorized by CWT
- Check valve/solenoid valve failure
- Damage which may occur during shipping
- Failure to meet service requirements as outlined in the I & O manual

Obtaining Service Under the Warranty

Any product and/or part not performing satisfactorily may be returned to CWT for evaluation. A Return Goods Authorization (RGA) number must first be obtained by either calling or writing your local authorized dealer, distributor or CWT direct, prior to shipping the product. The problem experienced with the product and/or part must be clearly described. The RGA number must appear prominently on the exterior of the shipped box(es). The product and/or part must be packaged either in its original packing material or in comparable and suitable packing material, if the original is not available. You are responsible for paying shipping charges to CWT and for any damages to the product and/or part that may occur during shipment. It is recommended that you insure the shipment for the amount you originally paid for the product and/or part.

If, after the product and/or part is returned prepaid and evaluated by CWT, it proves to be defective while under warranty, CWT will, at its election, either repair or replace the defective product and/or part and will return ship at lowest cost transportation prepaid to you **except for shipments going outside the 50 states of the United States of America**. If upon inspection, it is determined that there is no defect or that the damage to the product and/or part resulted from causes not within the scope of this limited warranty, then you must bear the cost of repair or replacement of damaged product and/or part and all return freight charges. Any unauthorized attempt by the end user to repair CWT manufactured products without prior permission shall void any and all warranties. For service, contact your authorized dealer or distributor or CWT direct at (805) 549-9724, extension 27.

Exclusive Warranty

There is no other expressed warranty on CWT products and/or parts. Neither this warranty, or any other warranty, expressed or implied, including any implied warranties or merchantability of fitness, shall extend beyond the warranty period. Some states do not allow limitations on how long an implied warranty lasts, so that the above limitation or exclusion may not apply to you.

Disclaimer of Incidental and Consequential Damages

No responsibility is assumed for any incidental or consequential damages; this includes any damage to another product or products resulting from such a defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that above limitation or exclusion may not apply to you.

Legal Remedies of Purchaser

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

THIS STATEMENT OF WARRANTY SUPERSEDES ALL OTHERS PROVIDED TO YOU AT ANY PRIOR TIME.

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