



CLEAR WATER

AUTOMATIC INLINE CHLORINATOR 2½" SPIGOT AND 1½" FPT

OPERATION DIRECTIONS:

Read all instructions prior to operation.



Always Follow Manufacturer's Directions.

SAFETY: Care must be used. Use gloves and eye protection. Do Not Smoke. Do Not Inhale Fumes.

INSTALLATION INSTRUCTIONS SAVE THESE INSTRUCTIONS

Read all instructions prior to assembly.

NOTE: NOT FOR USE IN COPPER PLUMBING.

- **POSITION THE CHLORINATOR:** The In-Line Chlorinator must be permanently installed in the pool return line. To prevent damage from high concentrations of chlorine, locate in return line between pool and any other components of the circulation system, including heater, filter and pump. **See Diagram 1.**
- **TURN PUMP AND FILTER SYSTEM OFF**
- **SHUT VALVES**

The Chlorinator must be installed in a vertical, upright position (lid up). The Chlorinator comes equipped with fittings required for installation. Cut pipe at required location for your situation. To prevent damage to the pool heater, install a corrosion-resistant swing check valve (Not Supplied) on the return side in between the pool heater and chlorinator. **See diagram 1.** Make sure arrow of check valve is pointing away from equipment and in direction of water flow to the pool. Glue in chlorinator and check valve using approved PVC solvent cement. Chlorinator will accept 2" PVC. For 1½" PVC, use 2" x 1½" reducer, P/N 421-4070.

To allow for adding chlorine and servicing when installing below pool's water level, gate or ball valves must be installed on both sides of chlorinator.

NOTE: When heaters are installed, a FIREMAN'S SWITCH or equivalent must be installed to prevent heat damage to check valves and other equipment.

Chlorine levels should be checked periodically to monitor the amount of chlorine in the water. Refer to **OPERATING INSTRUCTIONS** to properly set chlorine level.

CLEANING INSTRUCTIONS:

To ensure continuous peak performance, periodic maintenance may need to be performed.

- **TURN PUMP AND FILTER SYSTEM OFF**
- **SHUT VALVES**
- Loosen and remove lid. Lift screen from bottom of chlorinator. **See Diagram 2.** Check valve, located at bottom inside body assembly may also be removed by using a 1" socket. Clean parts with a brush, hose or other high pressure device. Use protective eye wear. Use Teflon tape when replacing check valve. Calcium deposits indicate a high spa/ pool pH and should be corrected by adding acid in very small amounts until pH reads between 7.2 and 7.6. (7.4 is ideal). If condition persists consult a pool / spa serviceman in your area who is familiar with any local water condition problems and can correct them for you.
- **NOTE: Turn off pump and filter system and shut valves before servicing.**

TO INSTALL TABLETS:

1. Shut off and close valve on inlet side of chlorinator.
2. Slowly rotate lid by turning counterclockwise.
3. If refilling with chemicals – allow fumes to escape. See product label for specific warnings and information.
4. Place chlorine tablets inside of canister. Be certain that the first tablet is seated flat on top of screen. **DO NOT stack tablets above fill line, top of canister.**
5. Before screwing on lid, make sure that O-ring is clean and seated securely in lid. **See Diagram 2.**
6. Hand tighten lid. **DO NOT over-tighten!**

TO OPERATE:

- **OPEN INLET VALVE**
- **TURN PUMP AND FILTER SYSTEM ON**
- **CHECK FOR LEAKS**

SETTING KNOB CONTROL:

1. Some trial and error will be required to establish the proper setting for use and filter cycle time will all affect control knob setting.
 2. Start by turning knob to mid point on indicator.
 3. Allow one to two days for the chlorine level to stabilize.
 4. Check chlorine level with a test kit.
 - If level is below 1 ppm – try a higher setting.
 - If level is above 2 ppm – try a lower setting.
- Repeat these steps until proper setting is found.

NOTE: The ClearWater Chlorinator is not designed for shock treatment of pools. See your dealer or distributor for information concerning shock treatments.

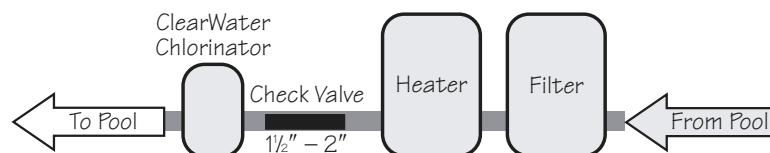
LEVELS: pH: 7.2 – 7.6
Alkalinity: 80 – 100ppm

IMPORTANT: It will not be possible to maintain a proper level if above levels are not maintained or if proper shock and stabilizers are not used.

NOTE: If your pool has any of the following equipment, install a corrosion-resistant swing check valve:

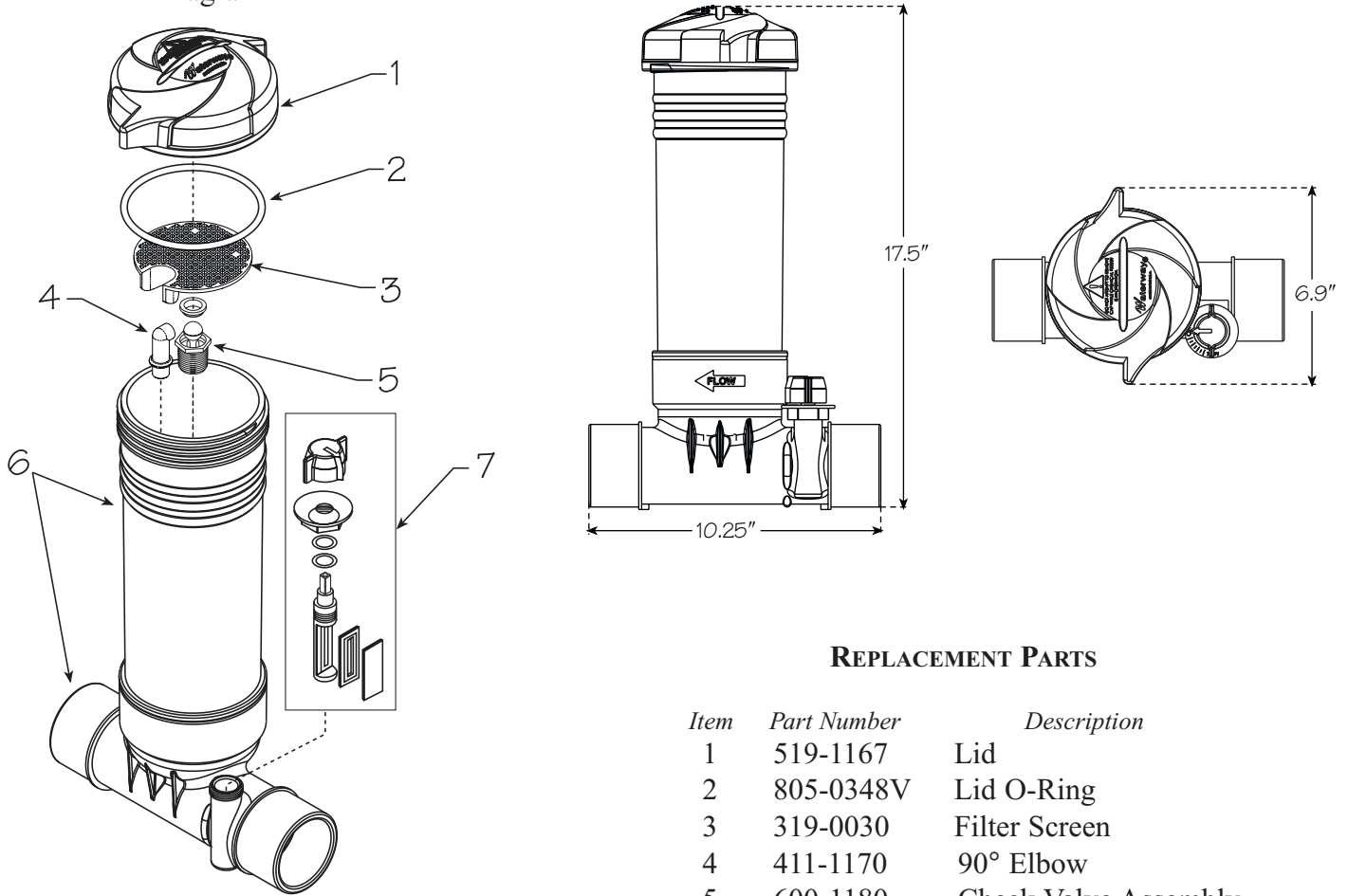
- Brass or bronze gate, rotary or backwash valves.
- The preceding valves constructed of PVC or other plastic material with metallic shafts.
- Filters, heaters, heat exchanges or other items with metallic tanks, shafts, coils or tubes.

Diagram 1



WARNING:
DO NOT MIX CHLORINE AND BROMINE TOGETHER, FIRE AND/OR EXPLOSION MAY RESULT!

Diagram 2



CLC012/CLC012-W

REPLACEMENT PARTS

Item	Part Number	Description
1	519-1167	Lid
2	805-0348V	Lid O-Ring
3	319-0030	Filter Screen
4	411-1170	90° Elbow
5	600-1180	Check Valve Assembly
6	NA	Body Assembly
7	600-1190	Stem Assembly



BEFORE PERFORMING ANY MAINTENANCE BE SURE SYSTEM IS OFF!

WARNINGS! READ AND FOLLOW ALL INSTRUCTIONS! SAVE THESE INSTRUCTIONS!

WARNING! To reduce the risk of injury and product damage:

This feeder is designed to use only Chlorine (Trichloro-s-triazinetriene) or Bromine (Bromochloro-5, 5 Dimethyl hydantoin) tablets, slow dissolving type. **UNDER NO CIRCUMSTANCES MIX** Trichlor OR Bromine with Calcium Hypochlorite, with other forms of concentrated chlorine or with other chemicals **FIRE AND/OR EXPLOSION MAY RESULT. NEVER** use oils or grease to lubricate O-ring. Oil in contact with Trichlor OR Bromine may result in **FIRE. Caution** should be used when removing feeder cap. **Do not inhale fumes.** No shock treatments or Algaecides containing chemicals other than sanitizer tablets are to be used in feeder. The shock or algae treatment **dissolved** in water is safe with tablets. **Always WEAR PROTECTION** for eyes, skin and clothing when working with chemicals. **Do not smoke** and avoid sparks and open flames. Turn off pump and control valve before opening chlorinator. Use of bulk chemicals may result in damage to pool. Chemicals will dissolve very quickly and may cause bleaching to liner due to over-chlorinating, possibly causing unsafe pool conditions. **Settings in excess** of the recommended control setting levels for the chlorinator can result in excess chlorine being discharged in your pool. This can result in bleaching or discoloration of areas around the pool inlet or in some cases bleaching of the entire pool liner or paint. **(Check chemical residuals regularly.)**

Limited Warranty:

Waterway Plastics manufactures its products and equipment in accordance with very high standards of workmanship. We use the best materials available and maintain the highest quality procedures practical in the industry. In accordance, Waterway warrants its products as follows:

This Chlorinator is warrantied to be free from defects in materials and workmanship for a period of one year from the date of purchase.

WATERWAY PLASTICS 2200 EAST STURGIS RD., OXNARD, CA 93030