

# **#300-29X CHLORINE/BROMINE FEEDER**

# **INBOW** For commercial-size applications

Features:

- No special venting required.
  - Completely enclosed-no escaping gases.
- · Positive external no-clog chlorine control valve.
- No equipment damage. Feeds sanitizer directly to pool or spa.
- All parts replaceable.

YOUR LIFEGARD® FEEDER IS THE MOST EFFICIENT AND TROUBLE-FREE AUTOMATIC FEEDER YOU CAN BUY, BUT IT CAN ALSO BE DANGEROUS TO YOU AND YOUR EQUIPMENT. PLEASE FOLLOW INSTRUCTIONS EXACTLY AND HEED ALL CAUTIONS. YOUR SAFETY AND THE PROTECTION OF YOUR EQUIPMENT IS OUR FIRST CONCERN.

#### WHERE TO INSTALL YOUR FEEDER

#### IF YOUR POOL OR SPA HAS COPPER PLUMBING ... STOP!!

Never install the feeder into copper plumbing as pipe damage could occur. Feeder should be installed **ABOVE POOL WATER LEVEL** whenever practical. If installed below water level these special instructions must be followed for safe and proper operation. When the feeder is installed below water level, two conditions must be overcome.

1. **ISOLATION OF THE FEEDER FROM POOL WATER:** The control valve when shut off to "off" isolates it on the side. A one way check valve such as the Rainbow R172324NS or other chemically resistant check valve will have to be attached on the discharge line at the top of the feeder.

**NOTE:** Never use any type of isolation valve on the discharge or outlet side of the feeder. Damage to the feeder will occur due to pressure build up. Use only a one-way corrosion resistance check valve. If isolation valves are used, remember to open them as soon as possible following recharging. Never leave closed for long periods of time as pressure will build up. Isolation is necessary to accomplish "DRAINING" in condition #2 which follows.

2. **DRAINING:** To prevent dangerous splash back of highly chlorinated water during recharging, the feeder will have to be emptied. There is a  $\frac{1}{2}$ " MPT plug on side of feeder (see drawing) that can be removed for draining. To facilitate draining: A drain valve is available from your dealer. Details on back drawing.

The outlet line must be installed after the heater. If your pool does not have a heater, then it must be installed after the filter. DAMAGE TO YOUR HEATER COULD RESULT IF HIGHLY CHLORINATED WATER FLOWS THROUGH IT. REFER TO INSTALLATION DRAWING FIGURE A

Install the inlet line between the pump and filter. Detailed installation instructions follow in the next section.

#### IMPORTANT PLUMBING HINTS

All male pipe fittings must be wrapped with 3-4 turns of thread tape to act as a thread sealant. Always wrap counter-clockwise (opposite of direction to tighten) Never overtighten fittings, they are plastic and can be broken. Usually 2-3 turns past finger tight will prevent any leaks. A fitting can always be tightened more if it leaks but not once it is broken. Additional saddle clamps (Part No. R172264) may be required if plumbing is over 2" in diameter. Clamps can be interlocked. For plumbing 3" to 6" diameter, order saddle clamps (Part No. R172264XL). It is recommended that the Feeder be bolted down.)

1. Position feeder close to the filter and cut tubing to desired length. Be careful to cut tubing ends straight.

2. ATTACH INLET LINE TO FEEDER. Wrap ½" x short nipple with seal tape. Screw nipple into bottom ½" FPT hole in side of feeder. Screw control valve onto other end of nipple. Be careful not to overtighten. Wrap 90 degree tube fitting with thread tape and screw into valve. Push compression nut over tubing end of elbow. Push tubing onto tapered end of elbow. Tighten nut firmly by hand.

SEE DRAWING ON OTHER SIDE OF INSTRUCTION SHEET.

3. ATTACH OUTLET LINE TO FEEDER. Wrap 90 degree fitting with thrad tape and screw into top  $\frac{1}{2}$ " FPT hole on side of feeder. Push compression nut over tubing end, then push tubing onto tapered end of elbow. Tighten nut firmly by hand.

4. **INSTALL INLET LINE IN PLUMBING.** (Line to bottom side of feeder). Turn off pump and timer switches. Drill 9/16" hole in plumbing, remove burrs and install saddle clamp assembly. Secure tubing to saddle clamp fitting by tightening clamp. Make sure clamp is below rib at end of saddle fitting. SEE DRAWING FIGURE A.

5. INSTALL OUTLET LINE IN PLUMBING. (Line from top of feeder.) Drill <sup>9</sup>/<sub>16</sub>" hole in plumbing AFTER the heater and remove burrs. SEE DRAWING FIGURE A. Install saddle clamp assembly. Attach tubing as in #4 above. Installation is now complete.

# SEE INSTALLATION DRAWING FIGURE A ON OTHER SIDE. DIRECTIONS FOR USE

Before start up of feeder, your pool should be properly conditioned and the chlorine residual should be 1.0 to 1.5 ppm, (Bromine 2.0-4.0 ppm). The sanitizer demand in a pool varies and is dependent upon many factors; sunlight, bather load, water temperature, etc. As a result, the valve setting may have to be changed from time to time to conform to conditions. For example, the winter setting may be 2 and the summer setting may be 3. Recommended start setting #3. Check residual daily to find ideal valve setting. Note: Higher numbers dispense more sanitizer.

#### START UP INSTRUCTIONS

Exercise extreme caution when opening or servicing feeder. Do not inhale fumes. Wear protective gear. Follow manufacturer's suggestions for handling the chemical.

1. If below water level, close the control valve and drain any water in feeder by removing 1/4" NPT plug in bottom, or by opening valve on optional drain kit. After draining, reinstall plug (use thread seal tape) or close drain valve.

 Remove cap of feeder and fill with Trichlor or bromine tablets. For maximum dispensal rate use 1" diameter tablets, 3" tablets produce less than 40% of 1" tablets.

3. Making sure O-Ring is clean, lubricated with Lifegard Silicone and is in place, replace cap. Hand tighten only.

4. Turn on pump and timer switches. Open control valve to #5 for one minute; which will allow feeder to fill with water. Adjust control valve according to your pool's size. Larger numbers dispense more sanitizer. The water in a newly filled pool should be properly conditioned to ensure maximum effectiveness of the Lifegard Automatic Feeder. Consult your local pool dealer for water conditioning information in your area. Refer to tablet container for recommended residual. It is recommended that the sanitizer level be checked daily for the first 5 days. Remember that on hot days higher water temperature or increased pool activity will cause your pool to use more sanitizer. When possible, increase the feed a day or two in advance.

#### HOW TO RECHARGE

1. SHUT OFF PUMP AND TIMER SWITCHES. OPEN CONTROL VALVE TO #5 (If below water, level, see special instructions below.)

- 2. Remove cap; this will allow water and fumes to drain from feeder.
- 3. Fill with PROPER SIZE TABLETS (SEE START UP INSTRUCTIONS #2)

4. Making sure O-Ring is clean, lubricated with Lifegard Silicone and is in place, replace cap. Hand tighten only.

5. Turn on pump and timer switches.

6. Leave control valve on #5 for one minute, this will allow feeder to fill with water. Reset control valve to original setting. Inspect inlet and outlet lines each time feeder is recharged. Replace lines yearly if necessary. Model 300-29X may require drain kit part #R172268 and a corrosion resistant check valve part #R172324. (See illustration)

#### BELOW WATER LEVEL RECHARGING INSTRUCTIONS

- 1. Shut off pump and timer switches.
- 2. Shut off control valve.

3. Place a clean container under drain and open drain valve.

4. Exercise extreme caution when opening or servicing feeder. Do not inhale fumes. Wear protective gear. Remove cap. water will now drain from feeder. Empty container back into pool or spa.

5. Close drain valve. Follow chemical manufacturer's recommendations for handling chemical used in your feeder. Fill with proper size tablets or sticks.

 Making sure O-Ring is clean, lubricated with Lifegard Silicone and is in place, replace cap. Hand tighten only.

7. Turn on pump and timer switches.

8. Reset control valve to original setting. Inspect inlet and outlet lines each time feeder is recharged. Replace lines yearly if needed.

# **DANGER**



#### READ CAREFULLY

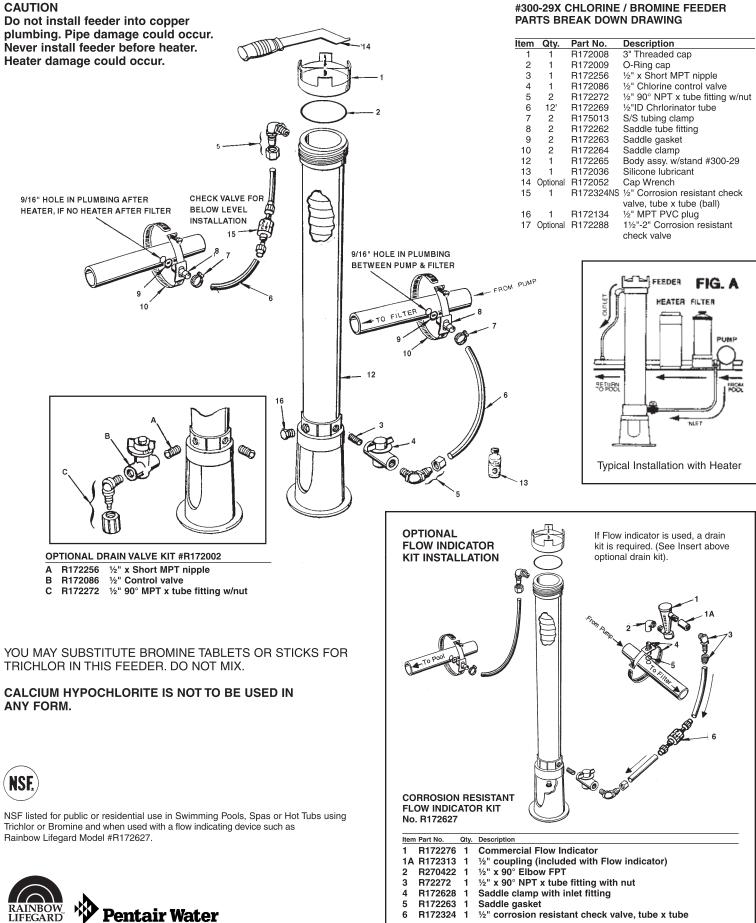
This feeder is designed to use only CLEAN Trichlor-s-trizinetrione OR CLEAN Bromine tables - slow dissolving type. Never use dirty tablets. **UNDER NO CIRCUMSTANCES MIX** Trichlor or Bromine with Calcium Hypochlorite, with other forms of concentrated chlorine or with other chemicals. Keep inside of feeder clean of dirt and debris at all times. **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. Lubricate o-ring with Lifegard Silicone o-ring Lubricant ONLY, available at your dealers. If shock treatments or Algaecides containing chemicals other than sanitizers tablets in feeder must be used, turn off Feeder OR remove tablets until the shock or Algae treatment is complete and all granules have dissolved. Failure to do so may result in granules mixing in feeder causing FIRE AND/OR EXPLOSION. The shock or algae treatment dissolved in water is safe with tablets. If you are not the original owner of this feeder, not sure which chemicals was used, or if dirt and/or debris inside feeder, be SAFE and flush thoroughly with fresh water. CAUTION SHOULD BE USED WHEN REMOVING CAP. DO NOT INHALE FUMES.

CALCIUM HYPOCHLORITE IS NOT TO BE USED IN ANY FORM. Use of chemicals other than listed by manufacturer may be hazardous.

### CAUTION

**Pool and Spa<sup>®</sup>** 





# EXTENSIONS

- Going on vacation?
- Need more chlorine?
- Filling Chlorinator/Brominator too frequently?

# LIFEGARD CHLORINATOR EXTENSIONS SOLVE THE ABOVE PROBLEMS BY:

- 1. Increasing tablet capacity.
- 2. Larger chamber size allows more erosion of tablets. (See special instructions below)

The 10" extension doubles and the 20" extension triples (approximately) the capacity and time between refills. **\*AVAILABLE THROUGH LIFEGARD DEALERS ONLY.** 

**NOTE**: On free standing #300 series chlorinators, the base of the chlorinator should be secured to prevent the possibility of the chlorinator tipping over due to increased height.

# INSTALLATION INSTRUCTIONS

- 1. Follow recharging instructions to the point of filling with tablets
- 2. Making sure O-Ring is clean, lubricated with Lifegard Silicone and in place, screw on extension tightly and secure with lock screw. (You may wish to wait until back in operation before tightening screw to insure against leaks).
- 3. Fill with tablets and continue with normal recharging procedure.

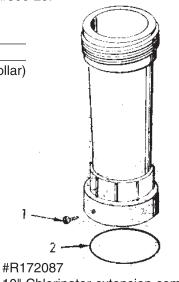
# **SPECIAL INSTRUCTIONS:**

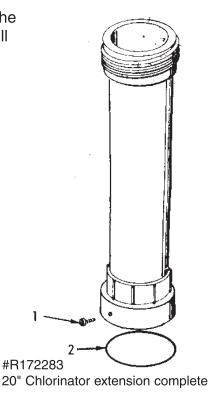
The large chamber size will result in more chlorine being dispensed at the same valve setting, therefore, once installed, several days monitoring will be necessary to readjust chlorinator output.

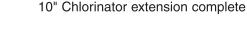
\*Does not apply to large capacity #300-19 or #300-29.

## Parts Breakdown Drawing

Item	Quantity	Part No.	Description
1	1	R172078	Lockscrew (bottom collar)
2	1	R172009	O-Ring









R24050-0402	equi and	**Not may I	NII	#R 17 1. 2.	2 - <sup>#</sup> <sup>#</sup> <sup>#</sup>		RAN
#R172323* ¼" Check Valve or #R172324* ½" Check Valve	NOTE: IT neaters are used, a FIREMAN'S SWITCH or equivalent must be installed to prevent possible damage and improper operation of CHECK VALVE and other equipment subject to heat damage. WITHOUT HEATER	**Note: For greater flow rate, inlet line may be installed between filter and pump	WITH HEATER #F	N )	<ul> <li>NOTE: MAKE SURE ALL PUMPS AND TIMER S</li> <li># R 17 2 3 2 3 * 1⁄4 " CHECK VALVE &amp;</li> <li># R 17 2 3 2 4 * 1⁄2 " CHECK VALVE INS T</li> <li>1. Cut Chlorinator inlet line at desired location.</li> <li>2. Slide compression nut over one end of line.</li> <li>toward Chlorinator, insert barbed end of che</li> <li>tight. Repeat procedure for other end of che</li> </ul>	FOR #300-29X CHL INSTEAD OF	RAINBOW LIFEGARD # R 17 # R 17 INST
**Chlorinator inlet line k Valve r	FIREMAN'S SWITCH or to prevent possible tion of CHECK VALVE to heat damage.	Filter-	#R172323* ¼" Check Valve or #R172324* ½" Check Valve **Chlorinator inlet line Pump	2288 1 <sup>1</sup> / <sub>2</sub> "-2" CHECK VALVE INSTALLATION: Cut piping at required location for your situation (refer to drawings). Making sure arrow on check valve is pointing away from equipment direction of water flow to the pool/spa, glue in check valve using PV 1 <sup>1</sup> / <sub>2</sub> " pipe will glue directly in valve, 2" pipe requires two 2" slip x slip	.: MAKE SURE ALL PUMPS AND TIMER SWITCHES ARE 23 2 3 * 1/4 " CHECK VALVE & 23 2 4 * 1/2 " CHECK VALVE INSTALLATION. 23 2 4 * 1/2 " CHECK VALVE INSTALLATION. Cut Chlorinator inlet line at desired location. Cut Chlorinator inlet line at desired location. Slide compression nut over one end of line. Make sure arrow Slide compression nut over one end of check valve into line toward Chlorinator, insert barbed end of check valve.	.ORINATOR: USE #R #R172323 %" CHECI	2323, #R 2288 CHE ALLATION I
Chlorinator outlet line	Chlorinator	Return line to	Chlorinator outlet line Heater	2288 11/2"-2" CHECK VALVE INSTALLATION: Cut piping at required location for your situation (refer to drawings). Making sure arrow on check valve is pointing away from equipment and in the direction of water flow to the pool/spa, glue in check valve using PVC solvent cement. 11/2" pipe will glue directly in valve, 2" pipe requires two 2" slip x slip couplings	<ul> <li>NOTE: MAKE SURE ALL PUMPS AND TIMER SWITCHES ARE IN THE OFF POSITION.</li> <li>172323* 1/4 " CHECK VALVE &amp;</li> <li>172324* 1/2 " CHECK VALVE INSTALLATION:</li> <li>1. Cut Chlorinator inlet line at desired location.</li> <li>2. Slide compression nut over one end of line. Make sure arrow on check valve is pointing toward Chlorinator, insert barbed end of check valve into line and tighten the nut finger tight. Repeat procedure for other end of check valve.</li> </ul>	FOR #300-29X CHLORINATOR: USE #R172324 ½" CHECK VALVE INSTEAD OF #R172323 ½" CHECK VALVE AS SHOWN	R 172323, #R 172324 & R 172288 CHECK VALVE INSTALLATION INSTRUCTIONS
		2288 Check Valve Return line to pool/spa		ment.	TION. Dointing t finger	.VE	SN

# EQUIPMENT SAFETY CAUTION

PLEASE READ CAREFULLY

Since most pool plumbing is not airtight, and a mixture of air and chlorine is highly corrosive to metals, it is important to protect these items from corrosion in the OFF period when no circulation is taking place. (There is no chance for chlorine corrosion when the circulating system is in operation.)

Of course, corrosion or erosion of metal components can still occur independently of any chlorinator installation for the following reasons:

- . Water velocity too high.
- 2. Water pH less than 7.2.
- 3. Total alkalinity less than 100 PPM.

If your pool or spa has any of the following equipment, special plumbing procedures must be followed for safe operation:

- 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.
- 4. NOT FOR USE IN COPPER PLUMBING

Installation of the **OPTIONAL** Rainbow #R172288, #R172323\* and #R172324\* positive seal, corrosion resistant check valve **SHOWN ON REVERSE SIDE** will prevent the backflow of corrosive liquids and gases that can damage equipment containing metallic components. Examples listed above.

\*Note: Valve size and tubing size must match.

WARNING: If your pool is equipped with a permanent built in pool-cleaning system, damage could occur to that system if materials are not compatible with low pH Tri-Chloro feeders. Check with manufacturer for compatibility.



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Filter-

Return line to pool/spa

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