Model VersaChlor® III(a) Chlorination System
by Axiall Corporation

Installation and Operating Instructions

DANGER:
DO NOT MIX CHEMICALS!
The VersaChlor III chlorinator system is designed for use with Axiall LLC approved tablets only. Do not use Cal-Hypo tablets with stabilized chlorine or bromine products, or other sanitizing chemicals. Fire or explosion could result.

The VersaChlor® III(a) Chlorination System is NSF-Listed for pool applications. ONLY VersaChlor® System Chlorinating Tablets for commercial pool applications are permitted for NSF installations. Use of other tablets will void NSF certification.
System Description
Model VersaChlor® III(a) Chlorination System

The Model VersaChlor® III(a) Chlorination System incorporates an Axiall Corporation chlorinator, which is designed to utilize Axiall’s VersaChlor® System Chlorinating Tablets. Using a manually adjusted valve and flow meter, the amount of water through the chlorinator is controlled. This results in a constant and predictable rate of chlorine delivery. The chlorination system is designed for use ONLY with VersaChlor® System Chlorinating Tablets to utilize the Axiall erosion feeder technology that erodes only the bottom layer of tablets on the sieve plate, while keeping tablets above the sieve plate dry and ready for use. Tablets other than Axiall Corporation VersaChlor® System Chlorinating Tablets will have different delivery rates, resulting in improper chlorine delivery.
Installation – Model VersaChlor® III(a) Chlorination System

Figure 1 – Gravity Return

1. Place the chlorination system in a location near the place of application.
2. Level the system. This is important for proper delivery.
3. Install a Supply Service Valve off of the return line.
4. Install fittings, Flow Control Gate Valve, flow meter and filter to the inlet of the chlorinator body.
5. Using ¾" pipe or tubing, connect from pool return to the flow meter.
6. Optional - A solenoid valve may be added in the inlet line for use with a chemical controller.
7. Using 1” pipe or tubing, connect the discharge to drain as needed. **DO NOT RUN PIPE OR TUBING UPHILL.**
   - Optional – A Discharge Service Valve may be added in the discharge line to facilitate cleaning.
8. Installation is now complete.

[Diagram of Installation Example]

**FIGURE 1 – Model VersaChlor® III(a) Chlorination System**
**Gravity Return Installation Example**
Installation – Model VersaChlor® III(a) Chlorination System

Figure 2 – Suction Return

NOTE: Pool re-circulation pump MUST be above the pool water level. This installation not recommended for use with a Chemical Controller.

1. Place the chlorination system in a location near the place of application. Chlorinator MUST be above the pump.
2. Level the system. This is important for proper delivery.
3. Install a Supply Service Valve off of the Pool return line.
4. Install a Discharge Service Valve off of the pump suction line.
5. Install fittings, flow meter and filter to the inlet of the chlorinator body.
6. Install Flow Control gate valve to the discharge of the chlorinator body.
7. Using ¾" flex hose or pipe connect the inlet to the Supply Service Valve.
8. Using 1" pipe or tubing, connect the gate valve to the Discharge Service Valve.
9. Installation is now complete.

FIGURE 2 – Model VersaChlor® III(a) Chlorination System Suction Return Installation Example
Installation – Model VersaChlor® III(a) Chlorination System

Figure 3 – Pump Pressure Return (Kit available from Axiall SKU 9500153)

1. Place the chlorination system in a location near the place of application.
2. Level the system. This is important for proper delivery.
3. Install a Supply Service Valve and a Discharge Service Valve off of the Pool return line.
4. Install fittings, flow meter and filter to the inlet of the chlorinator body.
5. Using ¾” flex hose or pipe connect the inlet to the Supply Service Valve.
6. Place a suitable pump near the chlorinator outlet.
7. Connect pump discharge to the Discharge Service Valve including a Check and Flow Control Valve.
8. Connect 3/8” tubing from the pump discharge AND before the Check Valve to the chlorinator vent plug. This is for priming the pump.
9. Connect pump to electrical source and controller (if used).
10. Installation is now complete

FIGURE 3 – Model VersaChlor® III(a) Chlorination System
Pump Pressure Return Installation Example
**Operation**

To refill the chlorinator

1. Remove the lid. (Be careful not to inhale fumes.)
2. Fill the chlorinator with Axiall VersaChlor® System Chlorinating Tablets. Do not over fill.
3. Replace the lid.

To operate the chlorinator

1. Start flow through the chlorinator. **Important:**
   - For Suction Return - Open the supply service valve BEFORE opening the discharge service valve to assure water flow.
2. Adjust the control valve to the desired setting. Check Available Chlorine regularly to determine the best setting.
3. Adjust the control valve and refill the chlorinator as needed to maintain chlorine levels.

**Note:** When pool circulation stops, flow to the chlorinator will stop. This will stop chlorine delivery.

**Note:** In Gravity Return applications, the float valve will simply hang down and function as a fully open valve.

**Note:** In Suction and Pump Pressure Return applications, the float valve will function to keep a solution level in the chlorinator, preventing air from entering the pump suction.

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**Cleaning**

The chlorinator should be cleaned twice per year or as many times as necessary to remove any residual scale that may accumulate inside the chlorinator. Cleaning may be accomplished by soaking in a dilute acid solution. Addition of muriatic acid will lower the pH of the water. Be prepared to add a suitable pH increaser to the pool water after cleaning is complete.

**Preparation for cleaning:**

1. Have 1 gallon of muriatic acid ready to add to the chlorinator. Wear rubber gloves and rinse all equipment thoroughly when finished.
2. Have a clean, empty container for storage of any tablets inside the chlorinator.
3. Always use appropriate safety equipment while servicing the chlorinator or handling chemicals.

**To clean the chlorinator while installed:**

1. Isolate the chlorinator from the system by closing both the discharge and supply service valves.
2. Remove the lid and remove all the tablets from the chlorinator. Temporarily place these tablets in the clean, empty container.
3. Rinse the chlorinator with water and (with the lid removed) open the discharge service valve temporarily to drain the chlorinator.
4. Close the discharge service valve and repeat step #3 once.
5. Close the discharge service valve and fill the chlorinator with water so there is about one inch of water above the sieve plate. Using rubber gloves and other safety protection, carefully pour the muriatic acid into the chlorinator including the walls of the chlorinator. **ALWAYS ADD ACID TO WATER, NEVER ADD WATER TO ACID.** Leave the lid removed and do not breathe any fumes. Let soak for 30 minutes.
6. After 30 minutes, open the discharge service valve. Open the supply service valve and flush the chlorinator for 30 minutes at maximum flow.
7. After 30 minutes of flushing, isolate the chlorinator and rinse the walls with water. Drain the chlorinator by temporarily opening the discharge service valve. Rinse a second time and drain.
8. Cleaning is now complete.
System Schematic - Model VersaChlor® III(a) Chlorination System
Gravity Return Install

Delivery Rate - Versachlor® III(a)
using
VersaChlor® System
Chlorinating Tablets

Graph showing delivery rate vs. flow through chlorinator, gpm:
- Delivery rate, lbs Cl/hr
- Flow through chlorinator, gpm

Diagram of VersaChlor® III(a) system components:
- Body and Lid
- Float Valve
- Interior Piping Assembly
- Sieve Plate Support Ring w/Legs
- Flow Control Valve
- Flow Meter ¾” Inlet
- Filter
- Sieve Plate w/Basket
- 1” Outlet
System Schematic - Model VersaChlor® III(a) Chlorination System
Suction Return Install

System Schematic - Model VersaChlor® III(a) Chlorination System
Pump Pressure Return Install
CAL-HYPO COMMERCIAL SYSTEM LIMITED WARRANTY

Axiall Corporation ("Axiall") warrants (subject to the below conditions) only its title to this water treatment system equipment (the “System”) and that the System will be free of defects in materials and workmanship for a period of twelve (12) months from its original installation date. THIS IS THE ONLY REPRESENTATION OR EXPRESS WARRANTY THAT PPG MAKES AND ALL OTHER EXPRESS WARRANTIES UNDER STATUTE OR ARISING OTHERWISE IN LAW FROM A COURSE OF DEALING OR USAGE OF TRADE WITH RESPECT TO THE SYSTEM ARE DISCLAIMED. ANY IMPLIED WARRANTIES EXISTING AS A MATTER OF LAW SHALL NOT EXCEED THE DURATION OF THIS LIMITED WARRANTY. IN THE EVENT THE SYSTEM FAILS TO CONFORM TO THIS WARRANTY, AXIALL’S EXCLUSIVE OBLIGATION AND YOUR EXCLUSIVE REMEDY SHALL BE LIMITED TO, AT AXIALL’S OPTION, THE FURNISHING OF NEEDED REPLACEMENT PARTS OR THE FURNISHING OF A NEW SYSTEM (BUT THIS DOES NOT INCLUDE INSTALLATION OR THE COSTS FOR INSTALLATION). EXCEPT AS PROVIDED IN THE IMMEDIATELY PRECEDING SENTENCE, IN NO EVENT WILL AXIALL BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO ANY USE MADE OF THE SYSTEM.

Warranty Conditions. This Limited Warranty shall apply and be effective only if: (i) the Axiall Chlorinator Warranty Registration information has been completed within thirty (30) days of the customer’s receipt of the system via the Internet at http://www.versachlor.com/VersachlorRegistration.aspx; (ii) the System is installed and operated and maintained in accordance with this manual and the instructions accompanying the System; (iii) you, at your cost, promptly return the System or defective part to such location as may be specified by Axiall; and, (iv) only VersaChlor® calcium hypochlorite tablets are used in the System. If any of these conditions are not met, this Limited Warranty will not apply and you acknowledge and agree that your purchase of the System will be on an “AS-IS” basis without any warranty of any kind whatsoever having been provided by Axiall.

You assume all responsibility and risk and liability arising from: (i) the unloading, installation, storage, handling and use of the System, including use thereof alone or in combination with other materials; (ii) the improper functioning or failure of unloading, installation, transportation or storage equipment you use, whether furnished or recommended by Axiall or not; and, (iii) the failure to comply with laws, rules and regulations governing storage, unloading, installation, handling, and use of the System. You will indemnify, hold harmless, and defend Axiall from and against any claim, suit, damage, cost, expense, fine, liability, or cause of action whatsoever, including reasonable attorney fees, on account of relating to, or arising out of the use, possession, installation or resale of the System.

This Limited Warranty gives you specific rights, and you also may have other rights, which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

VersaChlor® is a trademark of Axiall Corporation
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