



Clear  
Comfort

# Clear Comfort Residential Pool & Spa Sanitization System

Installation, Operations & Maintenance  
Manual



## IMPORTANT SAFETY INSTRUCTIONS

For further assistance contact us:

303.872.4477

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[clearcomfort.com](http://clearcomfort.com)



**Clear  
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## Clear Comfort Residential Pool & Spa Sanitization System Installation, Operations and Maintenance

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Clear Comfort warrants all Equipment to be free from defects in material or workmanship under normal use and service. In the event that a defect is discovered during the rental term, Customer must notify Dealer/Distributor immediately. Clear Comfort, LLC at its discretion may repair or replace the Equipment or parts thereof. The Company's warranty does not cover any Equipment that has been altered or changed in any way by any person not authorized by Clear Comfort, LLC.

THIS CONSTITUTES THE SOLE WARRANTY MADE BY CLEAR COMFORT, LLC EITHER EXPRESSED OR IMPLIED. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL CLEAR COMFORT, LLC BE

LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND CUSTOMER'S REMEDIES ARE LIMITED TO REPAIR OR REPLACEMENT OF NONCONFORMING CLEAR COMFORT SYSTEMS OR PARTS.

This warranty shall be voided if at any time: (i) Customer attempts to make any internal changes to any of the components of the Equipment; (ii) the power supplied to any part of the Equipment exceeds the Equipment's operating parameters; (iii) any external device attached by Customer creates conditions exceeding the Equipment's operating parameters; (iv) the Equipment is tampered with; or (v) the serial number is covered, removed or defaced. Clear Comfort, LLC reserves the right to seek damages if its system is tampered with, reverse engineered, or if Customer takes any other actions to interfere with the operation or integrity of the Clear Comfort system.

### CONTACT INFORMATION:

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[www.clearcomfort.com](http://www.clearcomfort.com)

## IMPORTANT SAFETY INSTRUCTIONS

### 1. READ AND FOLLOW ALL INSTRUCTIONS.

### 2. For cord connected/convertible units: DANGER – Risk of injury.

a. Replace damaged cord immediately.

b. Do not bury cord.

c. Connect to a grounding type receptacle only.

**3. For all permanently connected units intended for use on 15 or 20 ampere, 125 volt or 240 volt, single phase branch circuits:** WARNING – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

**4. For all cord connected units other than storable pool pumps:** WARNING – Risk of Electric Shock. Connect only to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

**5. For all permanently connected units:** WARNING – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

**6. For units intended for above-ground storable swimming pools:** Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.

**7. For all cord and plug connected units:** WARNING – To reduce the risk

of electric shock, replace damaged cord immediately.

**8. For units intended for above ground storable swimming pools:** WARNING – To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet.

**9. CAUTION:** At low or no flow conditions, gas may accumulate – ensure system is off when backwashing or when water is not being treated to prevent an unsafe gas buildup. Pressure switches, flow switches and other safety equipment to prevent unsafe gas buildup is recommended.

**10. When the modified air is introduced into the pool or spa water via the existing plumbing,** the biocide is produced. Some of the remaining activated atoms either keep minerals dissolved in the water or remove minerals that were previously deposited.

**11. This unit is to be installed in accordance with the installation instructions,** the applicable plumbing and building codes, the applicable state and local laws and regulations, and the requirements of the Authority Having Jurisdiction.

**12. When installing and using this equipment,** basic safety precautions should always be followed including the following.

**13. WARNING -** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

**14. WARNING -** Do not sit or stand on unit.

**15. SAVE THESE INSTRUCTIONS.**

## ELECTRICAL SAFETY

- Do not service the machine when the power is ON.
- The power supply wire gauge and insulation must meet the temperature and power requirements.
- To avoid personal injury never touch exposed electrical connections or components while the power is ON.
- Do not install/service the Clear Comfort system if you or the machine is standing in water with the power ON.
- Protect the power cord from being walked on or pinched, particularly at plugs and the point where they exit from the system.
- The device must be properly connected to the correct power source (either 60Hz 120Vac or 240Vac) using the supplied power cord in accordance with the local electrical code. If possible the unit should be hardwired to the pump circuit and controlled by the pump circuit (rather than hardwiring, an appropriate 120Vac or 240Vac receptacle outlet and plug may be used to connect

to the pump controlled circuit). If the unit is being wired to standalone AC power (i.e., not through the pump circuit on either 120Vac or 240Vac) it should be installed with its own timer circuit and plugged in through a Ground Fault Circuit Interrupt (GFCI) and the timer should be set to reflect the pool or tub's hours of operation. Regardless if hardwired or standalone connected, the electrical connection must be made in accordance with the local electrical code.

## GROUNDING

The Clear Comfort, LLC system must be properly grounded. An electrical ground connection to a reliable earth ground is essential for safe operation. Without an electrical ground, all accessible conductive components (including knobs and controls that appear insulated) can render an electrical shock.

## GENERAL SAFETY

Use personal protective equipment (steel toe shoes, hearing protection, eye protection) when installing the Clear Comfort system. Follow ladder safety requirements.



## KEY FEATURES

This manual describes how to install, operate, and maintain the standard Clear Comfort system. The installation takes only a few hours and can be installed with little or no disruption to a facility's recirculation or electrical systems. The Clear Comfort system immediately starts to work on a facility of any size and replaces the need to add toxic chemicals in most operating situations. Once the installation is complete, the Clear Comfort system does not require chemical replacement or frequent routine maintenance. The pool or spa water still needs to be tested, as would be done with a traditional chemical system.

## TECHNICAL SPECIFICATIONS FOR THE CLEAR COMFORT SYSTEM

The Clear Comfort system can be pole or wall mounted. A 10-foot power cord is included. See instructions on installation. The system is normally tied to the circuit controlling the pump operations.

The top lid overhangs the door to keep moisture from getting inside the cabinet.

## OPERATING RANGES

Power: 120 or 240 volt receptacle with approximately 100 watts.

Current Sensor: Range of 0.25 A to 15 A

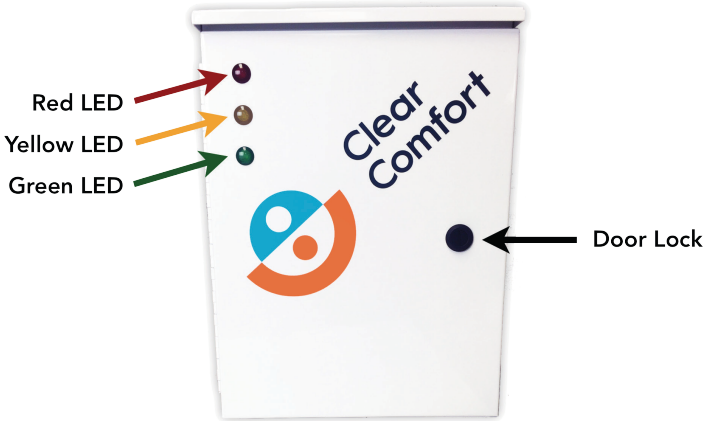
Ballast: 120V or 240V

**Electrical Requirements: 120V, 60Hz**

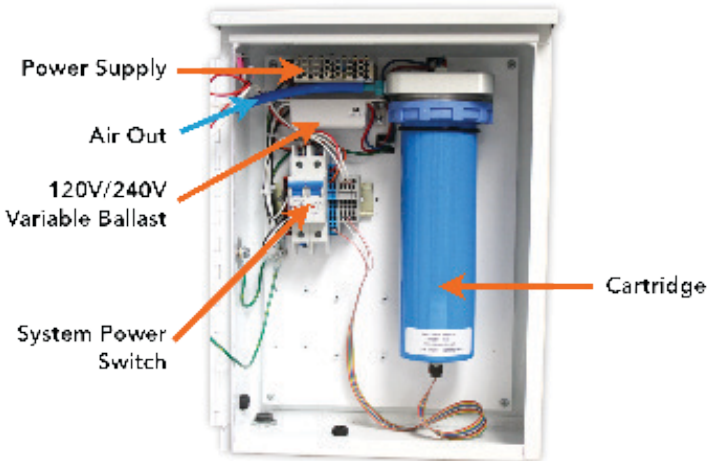
**Electrical Rating: 120V, 60Hz, 1.0Amp or 240V, 60Hz, 0.5Amp**

**NOTE: CLEAR COMFORT SHOULD ONLY RUN WHEN THE PUMP IS OPERATING**

### FRONT VIEW



### INTERNAL VIEW





Prior to installation, a site survey should be performed to validate the correct system parameters are in place and ready to be installed. We recommend that you maintain compliance within the following operating ranges for well constructed and circulated pools.

- **Pool volume:** Up to 50,000 gallons.
- **Time in operation:** Enough to cycle the entire body of water a minimum of two times per day.
- **Type of pool/spa filter:** Any ANSI 50 approved filtration.
- **Type of pump:** Enough to supply a minimum of two turns of the body of water per day.
- **Voltage of power supply:** 120 or 240V AC.
- **Maximum distance from injection point:** Air tubing length should be as short as possible with no more than 10 feet from the system to the venturi injector.
- **Indoors or outdoors:** Either is suitable. The system is NEMA 3R rated. Installation away from upward facing sprinklers is recommended.
- **Supported mounting types:** Wall, I-beam, or pole mounted.
- **Water quality at installation:** The water quality should be balanced prior to installing the Clear Comfort system.

## CLEAR COMFORT SUPPLIED MATERIALS

Components supplied for the Clear Comfort system are the following:

1. Clear Comfort system.
2. Power cord: 10 feet.
3. 10 feet of ¼-inch air tubing.
4. One-way air check valve.
5. 1.5" Venturi injector.

## RECOMMENDED MATERIALS AND TOOLS

1. A power drill.
2. Bolts/screws/brackets/hangers for mounting the Clear Comfort system.
  - May need special bracket to attach to an I-beam or pole.
3. Proper plumbing materials for venturi injector installation. See Figure 2 for details.

## SYSTEM INSTALLATION

1. Determine the best location and mount the Clear Comfort system using four (4) screws, or appropriate hardware with wall anchors to mount the Clear Comfort system, aligning with the mounting brackets on the Clear Comfort system.
2. System should be installed no more than 10 feet from injection location.
3. Where possible, ensure system location is at least one (1) foot above the water line of pool/spa.

## ELECTRICAL INSTALLATION - DIRECTLY TO CIRCUIT (RECOMMENDED)

1. Direct pump circuit connection is recommended. Unit should be hardwired to the pump circuit and controlled by pump circuit.
2. The device must be properly connected to the correct power source (either 60Hz, 120Vac or 240Vac) using the supplied power cord, in accordance with the local electrical code.
3. Toggle ballast switch between 120V and 240V to match required voltage. See Figure 1.
4. If hard wired, cord supplied must be hard wired in accordance to the National Electrical Code and in accordance with local regulations.
5. Test for proper grounding and secure connections.

## ELECTRICAL INSTALLATION - WALL OUTLET

1. If the unit is being wired to standalone 120Volt AC power (i.e., not through the pump circuit), connect Clear Comfort system to the pool timing clock so that the system operates simultaneously with pool pump through a Ground Fault Circuit Interrupt (GFCI). In either case, the electrical connection must be made in accordance with the local electrical code.
2. Toggle the ballast switch between 120V and 240V to match required voltage. See Figure 1.
3. Test for proper grounding and secure connections.

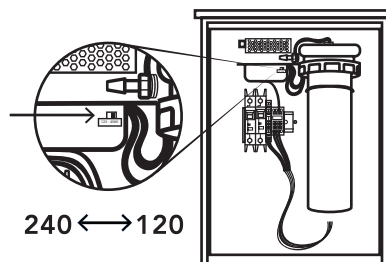


Figure 1: Ballast Electrical Switch

## WIRE THE SYSTEM TO RUN ONLY WHEN THE PUMP IS RUNNING

## INSTALLING THE CLEAR COMFORT INJECTION ASSEMBLY



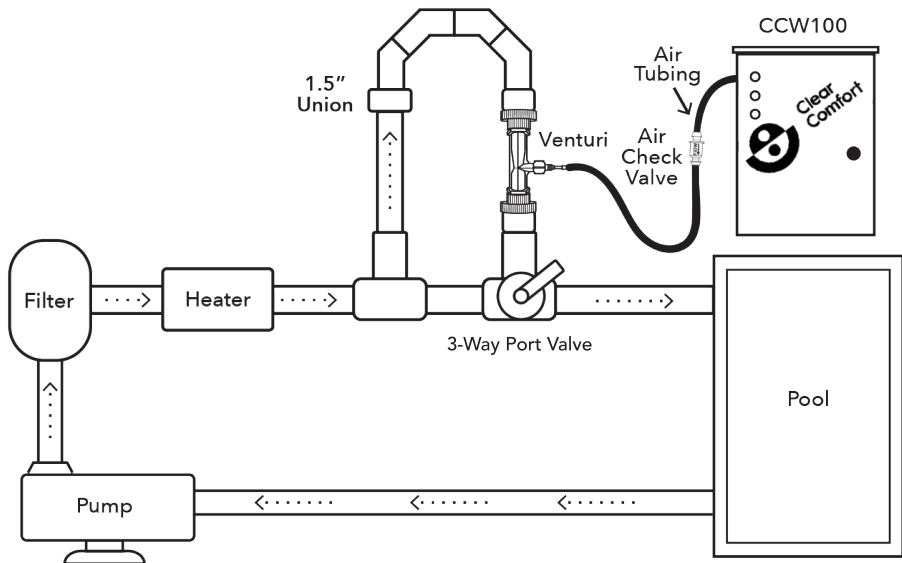
Clear Comfort systems can be installed with passive or active venturi injection in the main return line after all other pool equipment (pump, filter, heater and chemical injection).

On the next page, Figure 2 indicates the preferred installation using a U-bypass venturi injection.

**NOTE:** For pools with 1-2 horsepower pumps, infloor cleaners (pop-ups) and/or multiple return lines back to pool, a booster is required. Active injection with a 2-speed, 3/4 hp booster pump will maximize system effectiveness and eliminate strain on existing pool equipment. This will also minimize the electrical consumption of the system. Please see section titled **“Installation with Booster Pump”** on page 15. For questions regarding booster pumps, please call Clear Comfort at: 303-872-4477.

## INSTALLING THE U-BYPASS INJECTION

(PREFERRED METHOD)



**Figure 2: Full System Diagram With U-Bypass Injection  
(PREFERRED METHOD)**

## INSTALLING THE U-BYPASS INJECTION (PREFERRED METHOD)

1. Turn main pool pump OFF and switch OFF main circuit breaker.
2. Locate the section of existing plumbing that you chose to install the U-bypass assembly in. Location should be in any accessible area after the pump, filter and heater.
3. Venturi is to be installed in the downward position. See Figure 2 for details.
4. **MAKE CERTAIN THE VENTURI IS INSTALLED WITH THE FLOW MARK IN THE PROPER DIRECTION. IF REVERSED IT WILL NOT OPERATE.**
5. A Jandy (part number 4715), Hayward (part number PSV3S ), Pentair (part number 263037) or Waterway (part number 600-7100-CPVC) 3-Port diverter valve is required to offer a full range of adjustability.
6. To increase the draw with a venturi system, simply adjust or slowly close the valve according to Figure 4.
7. Set venturi air suction to draw between 4 -7 LPM using a flow meter.

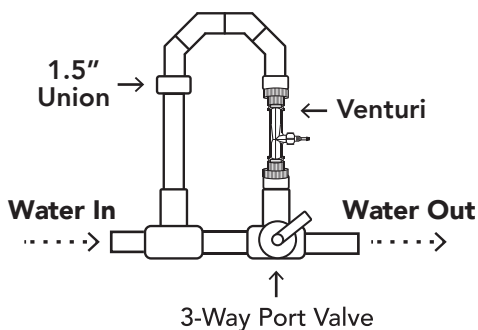


Figure 3: U-Bypass Configuration

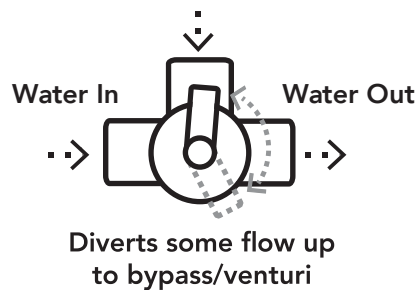


Figure 4: 3-Way Port Valve Configuration

## SUGGESTED MINIMUM PARTS LIST FOR U-BYPASS INJECTION

ITEM	QUANTITY	SIZE/DIAMETER
45 Degree Elbow	4	1.5"
Slip-FPT PVC Adapters for Venturi	2	1.5"
Slip-Slip Union	1	1.5"
Jandy (part number 4715), Hayward (part number PSV3S), Pentair (Part Number 263037) or Waterway (part number 600-7100-CPVC) 3-Port diverter valve	1	1.5"
PVC 3-Way Tee	1	1.5"
PVC Piping	2 feet	1.5"

## CONNECTING CLEAR COMFORT SYSTEM TO VENTURI INJECTION

1. Run provided 1/4-inch tubing from the venturi injection port to the straight barb fitting. Length of tube should be less than 10 feet. See Figure 6.
2. If the unit is installed below the water line, install a loop in the 1/4-inch line known as a Hartford loop. Loop the hose so that at some point, tubing is above water level.
3. Install 1/4-inch one-way air check valve (supplied) in between the Clear Comfort system and the Hartford loop to eliminate any potential water backflow. See Figure 5 below.

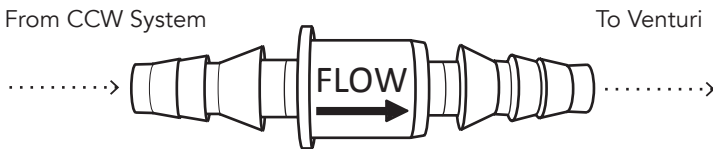


Figure 5: 1/4" One-Way Air Check Valve

4. Gas exiting the Clear Comfort system to the venturi connector port should flow easily.
5. Measure air suction using an air flow meter and set venturi air suction to draw between 4 - 7 LPM. See Figure 6 for details.

## CONNECTING CLEAR COMFORT SYSTEM TO VENTURI INJECTION

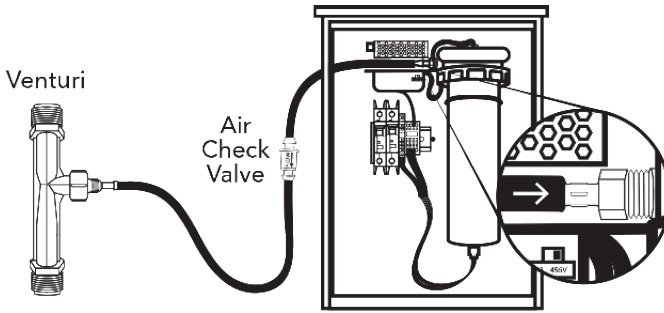


Figure 6: Venturi Connection

### NOTE:

Check Valve should be installed to flow in a vertical, downward direction below the exit from the system. See Figure 7 below.

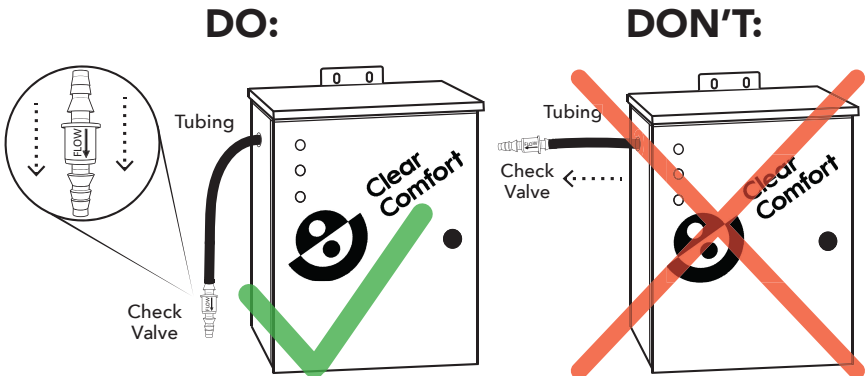


Figure 7: Air Check Valve Position

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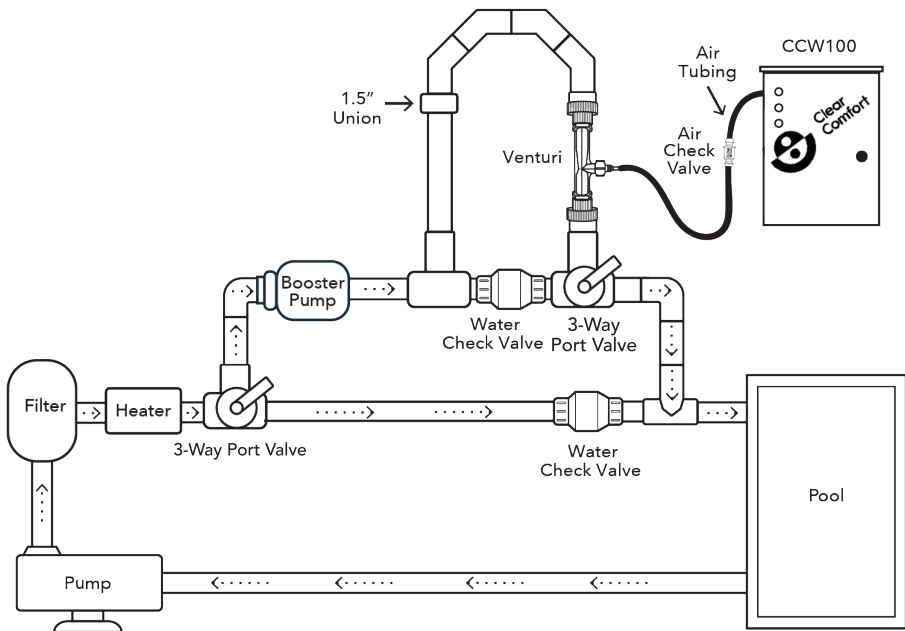
## OPERATING INSTRUCTIONS WITH U-BYPASS INJECTION

1. Install plumbing according to Figure 2.
2. Ensure sure bypass 3-way port valve is OPEN before turning pumps ON.
3. Turn pool/spa pump and filtration systems on.
4. Set venturi air suction to draw between 4 -7 LPM.
5. To increase the draw of air from venturi system, adjust or slowly close bypass 3-way port valve.
6. Toggle Clear Comfort system switch to the ON position. Secure front door of the Clear Comfort system.
7. Water entering the pool/spa should have bubbles exiting at least one of the returns on to the body of water.



## INSTALLING INJECTION PLUMBING WITH BOOSTER PUMP

For pools with 1-2 horsepower pumps, in-floor cleaners (pop-ups) and multiple return lines back to pool, a booster pump is required. A 2-speed, 3/4 hp booster pump will maximize system effectiveness and eliminate strain on existing pool equipment.



**Figure 8: Full System Diagram With Booster Pump**

## INSTALLING INJECTION PLUMBING WITH BOOSTER PUMP

1. Build the bypass assembly according to Figure 8. Dryfitting the bypass assembly prior to installation is recommended.
2. Install the ENTRANCE leg to the bypass assembly. Location must be after the pump, filter and heater. The bypass assembly shall be assembled on the pressure side of the 3/4 hp 2-speed bypass pump.
3. Locate section of existing plumbing in which you choose to install the EXIT leg from the bypass assembly. Location must be downstream of ENTRANCE leg.
4. Install check valve in the main line upstream of the EXIT leg of the bypass assembly.
5. Install venturi in the downward position. See Figure 8 for details.
6. **MAKE CERTAIN THE VENTURI IS INSTALLED WITH THE FLOW MARK IN THE PROPER DIRECTION. IF REVERSED IT WILL NOT OPERATE.**
7. **MAKE CERTAIN CHECK VALVES ARE INSTALLED IN THE CORRECT LOCATION AND IN THE CORRECT DIRECTION.**

## SUGGESTED MINIMUM PARTS LIST FOR BOOSTER PUMP INJECTION

ITEM	QUANTITY	SIZE/DIAMETER
PVC Pipe	10 ft. (est.)	1.5"
Jandy (part number 4715), Hayward (part number PSV35), Pentair (Part Number 263037) or Waterway (part number 600-7100-CPVC) 3-Port diverter valve	2	1.5"
Slip-FPT PVC Adapters for Venturi	2	1.5"
PVC 45 Degree Elbow	4	1.5"
PVC 90 Degree Tee	2	1.5"
PVC 3-Way Tee	2	1.5"
PVC Swing Check Valve	2	1.5"
Booster Pump	1	3/4 HP, 2-Speed

### BYPASS BOOSTER PUMP WIRING

1. Turn main power breaker OFF before working with equipment.
2. Wire booster bypass pump on the low speed configuration according to local code. Please consult a licensed electrician before installation and operation, as needed.
3. **The bypass pump should be wired to run only if the main pump is operating.**
4. If main pump is not operating 24 hours a day, assure Clear Comfort system is operating only when the main pool pump is operating using a pool timing box or an inline flow switch that operates simultaneously with the main pool pump.

### CONNECTING CLEAR COMFORT SYSTEM TO VENTURI INJECTION

1. Connect provided 1/4-inch tubing from the venturi injection port to the straight barb fitting. See Figure 10.
2. If the unit is installed below the water line, install a loop in the 1/4-inch line known as a Hartford loop. Loop the hose so that at some point it is above water level.
3. Install 1/4-inch one-way check valve (supplied) in-between the Clear Comfort system and the Hartford loop to eliminate any potential water back-flow. See Figure 9 below.

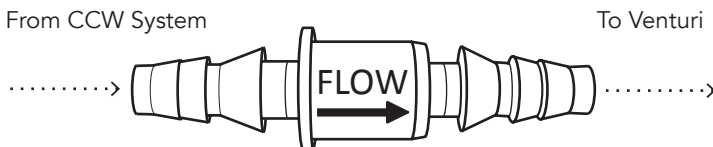


Figure 9: 1/4" One-Way Check Valve

4. Gas exiting the Clear Comfort system to the venturi connector port should flow easily.

## CONNECTING CLEAR COMFORT SYSTEM TO VENTURI INJECTION

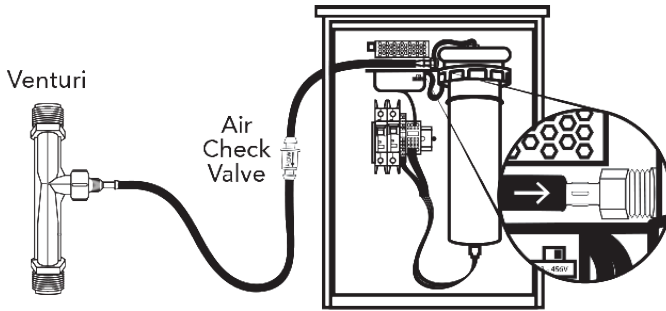


Figure 10: Venturi Connection

### NOTE:

Check valve should be installed to flow in a vertical, downward direction below the exit from the system. See Figure 11 below.

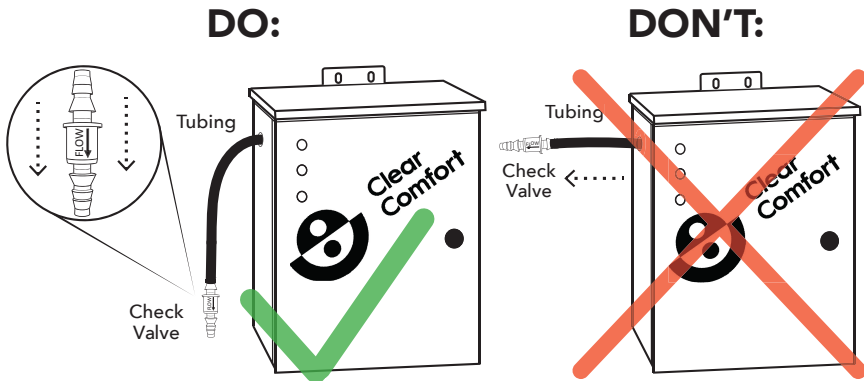


Figure 11: Check Valve Position

## **BYPASS BOOSTER PUMP OPERATION**

### **MAIN PUMP TYPE: VARIABLE SPEED PUMP (PREFERRED METHOD)**

1. Install plumbing according to Figure 8.
2. Ensure bypass 3-way port valve is OPEN before turning pumps ON.
3. Turn on main pool pump to 2,000 RPM and allow water to circulate for 2 minutes.
4. Turn on 3/4 horse booster pump and allow bypass pump to prime and fill bypass plumbing with water.
5. Set venturi air suction to draw between 4 - 7 LPM.
6. To increase the draw with a venturi system that utilizes a 3-way port valve, adjust or slowly close the 3-way port valve.
7. The booster pump shall only run when main pump is operating.
8. In the case that the booster pump loses prime, repeat steps 2 - 6.
9. If your pool uses in-floor cleaning systems (pop-ups), program your pump to run at the specified RPMs to activate the cleaning system for a complete cleaning cycle.
10. Toggle Clear Comfort system switch to the ON position. Secure front door of the Clear Comfort system.
11. Water entering the pool/spa should have bubbles entering from at least one return into the body of water.

### **MAIN PUMP TYPE: SINGLE SPEED PUMP**

1. Install plumbing according to Figure 8.
2. Ensure bypass 3-way port valve is OPEN before turning pumps ON.
3. Turn on main pool pump and allow water to circulate for 2 minutes.
4. Turn on 3/4 horse booster pump and allow bypass pump to prime and fill bypass plumbing with water.
5. The booster pump shall only run when main pump is operating.
6. Set venturi air suction to draw between 4 - 7 LPM.
7. To increase the draw with a venturi system that uses a 3-way port valve, adjust or slowly close the 3-way port valve.
8. In the case that the booster pump loses prime, repeat steps 2 - 7.
9. Toggle Clear Comfort system switch to the ON position, secure front door of the Clear Comfort system.
10. Water entering the pool/spa should have bubbles entering from at least one return into the body of water.

## CARTRIDGE REPLACEMENT

The cartridge must be replaced annually. No other maintenance is required. If the yellow OR red LED is illuminated, the cartridge must be replaced.

1. Turn off and disconnect power to Clear Comfort system. Never attempt to service unit while it is wet. Ensure all LEDs on system front are off.
2. To remove the cartridge, disconnect ribbon connector at the base of the canister. Do this by pulling the plug with care from the base of the canister and gently pulling down.



3. Carefully unscrew the PVC union nut while holding the canister with your other hand. After the retaining ring is completely free of the metal mounting head, gently pull the canister down.



4. Please return old canister to Clear Comfort for proper recycling. For sustainability purposes, Clear Comfort provides a return-shipping label so the canister can be properly recycled.

5. To install the replacement cartridge, align pins with corresponding holes in head assembly of the system.



6. While pushing the canister upwards, firmly re-screw and hand tighten the PVC union nut up until it is tight. **DO NOT OVER TIGHTEN**, but make sure nut securely holds cartridge in place.



7. Reconnect plug at the base of the canister, making sure that it is oriented in the correct direction.

For questions, please call Clear Comfort at:  
303.872.4477

- **How is the Clear Comfort system different from traditional chemical-free water treatment systems?**

The Clear Comfort system is the first product to provide complete protection for pools or spas (biocide, scale control, and corrosion control) without adding toxic chemicals. Traditional water treatment systems require the purchase, transport, storage, and application of toxic chemicals.

- **Is the Clear Comfort system a non-chemical device?**

The Clear Comfort system creates hydroxyls and hydrogen peroxide when the system's treated air is injected into the water.

- **How does the Clear Comfort system work?**

Using a proprietary and patented technology, the Clear Comfort system creates a gas that, when added to water, forms hydroxyl radicals and safe amounts of hydrogen peroxide, which destroys aquatic microorganisms and controls organic material. The Clear Comfort system produces an excellent biocide, which kills bacteria, protozoa, and viruses.

- **How long does installation take?**

Installation typically should only take a few hours. As soon as it is installed, it starts treating the water immediately.

- **Where does the get Clear Comfort system get installed?**

The Clear Comfort system needs to be within 10 feet of the pool or spa venturi injection site. It can be installed either indoors (as long as there is access for the air handling) or outdoors on the pool or spa. The system's venturi is installed directly into the pool or spa plumbing.

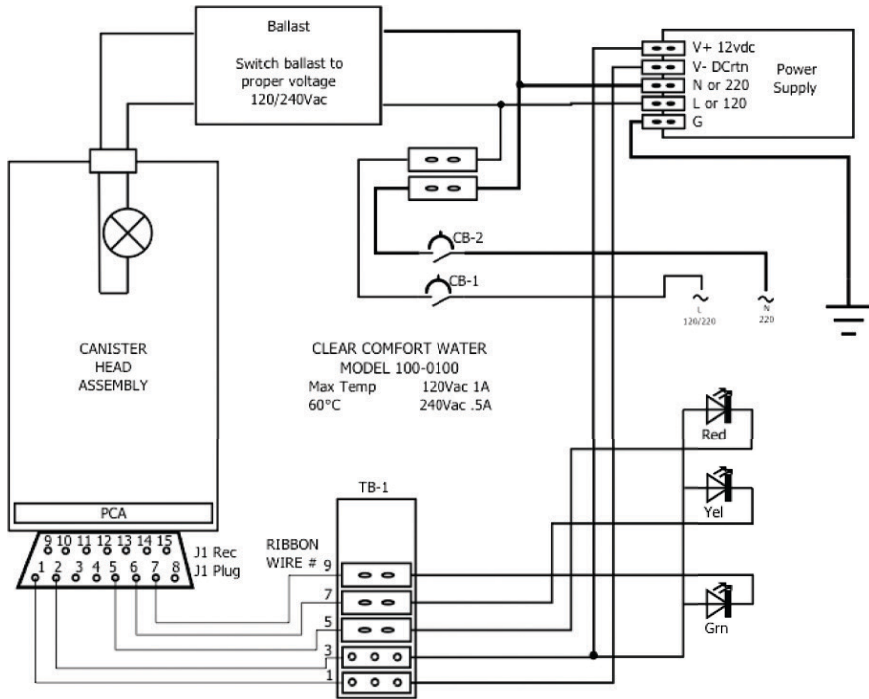
- **Is the Clear Comfort system affected by temperature? Hot or cold?**

No, our system is weatherproof for outdoor conditions and has a NEMA 3R rating for heat and cold.

- **Does the Clear Comfort system treat the water even when the system isn't in operation?**

When the system is turned off, it stops producing the biocide. However, residual hydrogen peroxide will remain in the water for some time.





This electrical connection must be made in accordance with the local electrical code.

### **Wiring to pump electrical circuit (preferred method)**

The device must be properly connected to the correct power source (either 60Hz, 120Vac or 240Vac) using the supplied power cord in accordance with the local electrical code. The unit should be hardwired to the pump circuit and controlled by the pump circuit.

### **Wiring to a standalone electrical outlet (use when pump continuously operates)**

If the unit is being wired to standalone AC power (i.e., not through the pump circuit on either 120Vac or 240Vac) it should be installed to operate only when the pump is operating with its own timer circuit and plugged in through a Ground Fault Circuit Interrupt (GFCI) and the timer should be set to reflect the pool pump hours of operation. The unit should not run when the pump is off. For questions regarding this operational mode please contact Clear Comfort at 303.872.4477.

240 Volt power supply cord supplied and must be field wired in accordance to the NEC (ONLY FOR 240V).





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[clearcomfort.com/residential-manual](http://clearcomfort.com/residential-manual)



For further assistance contact us:

303.872.4477

[support@clearcomfort.com](mailto:support@clearcomfort.com)

[clearcomfort.com](http://clearcomfort.com)