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› Waterco Fulflo TC400 Pool Filter Instruction Manual

## Waterco TC400

# Waterco Fulflo TC400 Tri-Cartridge Pool Filter Instruction Manual

Model: TC400 (Part #2165400A)

Manufacturer: Waterco

## 1. PRODUCT OVERVIEW

The Waterco Fulflo TC400 Tri-Cartridge Filter is a high-capacity filtration system designed for large residential pools and light commercial applications. It features a robust design for efficient water purification and ease of maintenance.



Figure 1: Waterco Fulflo TC400 Tri-Cartridge Pool Filter. This image shows the complete filter unit with its grey tank, black base, and pressure gauge on top.

## Key Features:

- **Filtration Capacity:** 400 sq.ft. of filtration area with three high-volume cartridges for superior water cleaning performance.
- **Construction:** Glass-reinforced tank body with heavy-duty tamper-proof clamp ensures durability and reliable operation.
- **Monitoring System:** Includes pressure gauge and air relief valve for easy maintenance and optimal performance tracking.
- **Quick Connect:** Features 2-inch unions for hassle-free installation and maintenance, allowing easy removal without cutting pipes.
- **Split Design:** Innovative split tank configuration with sturdy support base enables convenient access to filter cartridges.

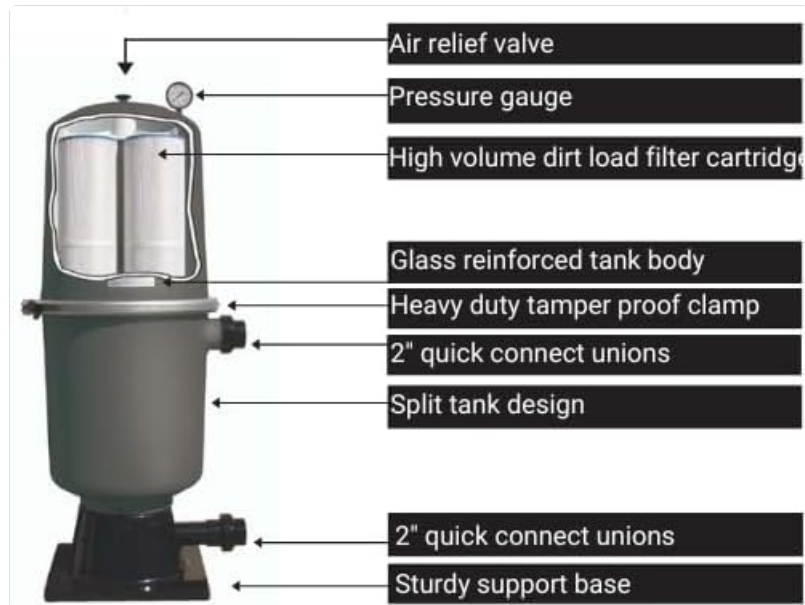


Figure 2: Diagram illustrating the components of the Waterco Fulflo TC400 filter, including the air relief valve, pressure gauge, high volume dirt load filter cartridge, glass reinforced tank body, heavy duty tamper proof clamp, 2" quick connect unions, split tank design, and sturdy support base.

## 2. SETUP AND INSTALLATION

Proper setup is crucial for the efficient operation of your Waterco Fulflo TC400 filter. Refer to the detailed instructions provided in the manufacturer's manual for specific plumbing and electrical connections. Ensure all connections are secure and leak-free.

### Pre-Installation Checklist:

- Verify that the installation site is level and can support the weight of the filter when filled with water.
- Ensure adequate clearance around the filter for maintenance and service.
- Confirm that the plumbing connections (2-inch unions) are compatible with your existing pool system.
- Review all local codes and regulations regarding pool equipment installation.

### Initial Startup:

1. Before starting the pump, ensure the filter tank is filled with water.
2. Open the air relief valve on top of the filter to allow air to escape as the filter fills.
3. Once a steady stream of water emerges from the air relief valve, close it.
4. Start the pool pump. Observe the pressure gauge and note the initial clean filter pressure.
5. Check for any leaks around the connections.

### 3. OPERATING THE FILTER

The Waterco Fulflo TC400 filter operates by circulating pool water through its three heavy-duty cartridges, trapping debris and impurities. The pressure gauge indicates the internal pressure of the filter, which is a key indicator for maintenance.

#### Normal Operation:

- Run your pool pump for an adequate duration each day to ensure proper water circulation and filtration. The recommended run time varies based on pool size, usage, and environmental factors.
- Regularly monitor the pressure gauge. An increase of 8-10 PSI (Pounds per Square Inch) above the initial clean filter pressure indicates that the cartridges require cleaning.

### 4. MAINTENANCE

Regular maintenance of your Waterco Fulflo TC400 filter is essential for its longevity and to maintain clear, healthy pool water. This primarily involves cleaning the filter cartridges.



Figure 3: Close-up view of the three high-volume filter cartridges inside the Waterco Fulflo TC400 filter, showcasing their pleated design for maximum surface area.

Cartridge Cleaning Procedure:

1. Turn off the pool pump and close any necessary valves to isolate the filter.
2. Open the air relief valve to release any pressure from the tank.
3. Unscrew the heavy-duty tamper-proof clamp to separate the two halves of the split tank.
4. Carefully remove the filter cartridges.
5. Hose down the cartridges thoroughly with a garden hose to remove loose debris. For deeper cleaning, soak the cartridges in a specialized filter cleaning solution according to the solution's instructions.
6. Inspect cartridges for any damage or wear. Replace if necessary.
7. Reinstall the clean cartridges, ensuring they are properly seated.
8. Reassemble the filter tank, securing the clamp firmly.
9. Follow the initial startup procedure to repressurize the system and restart the pump.

**Tip:** Consider having a spare set of cartridges. This allows you to swap out dirty cartridges for clean ones immediately, minimizing downtime for your pool filtration system while the dirty set is being cleaned or soaked.

General Pool Maintenance (Video Guide):

Maintaining overall pool health involves more than just filter cleaning. Proper water circulation, regular physical cleaning, and chemical balancing are crucial. The following video provides a comprehensive guide to general pool maintenance practices.

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Video: "Pool Maintenance 101: How to Keep Your Pool Clean and Clear" by Doheny's Pool Supplies Fast. This video covers essential aspects of pool maintenance, including circulation, cleaning, and chemical balancing, to ensure clear and healthy pool water.

Another helpful video on general pool maintenance:

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Video: "Doheny's Pool Supplies - Be your own pool pro!" This video highlights various pool maintenance products and techniques offered by Doheny's, emphasizing the importance of proper care for your backyard pool.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Waterco Fulflo TC400 filter. For more complex problems, consult a qualified pool technician.

| Problem                        | Possible Cause                                                  | Solution                                                                           |
|--------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------|
| Low Water Flow / High Pressure | Clogged filter cartridges, clogged skimmer basket, pump issues. | Clean filter cartridges. Empty skimmer and pump baskets. Check pump for blockages. |

| Problem                    | Possible Cause                                                        | Solution                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Cloudy Pool Water          | Insufficient filtration, improper chemical balance, excessive debris. | Clean filter cartridges. Test and adjust pool chemicals (pH, alkalinity, chlorine). Brush and vacuum pool. Ensure pump runs long enough. |
| Water Leaking from Filter  | Loose clamp, damaged O-ring/gasket, cracked tank.                     | Tighten clamp. Inspect and replace O-ring/gasket if damaged. Contact Waterco support for tank issues.                                    |
| Air Bubbles in Return Jets | Air leak in suction line, low water level, loose pump lid.            | Check water level and fill if low. Inspect pump lid O-ring and tighten. Check all suction side connections for leaks.                    |

## 6. SPECIFICATIONS

- **Model Number:** TC400 (Part #2165400A)
- **Filtration Area:** 400 sq. ft.
- **Filter Type:** Tri-Cartridge
- **Tank Material:** Glass-Reinforced
- **Connection Size:** 2-inch Unions
- **Product Dimensions:** 14 x 24 x 48 inches
- **Item Weight:** 35 pounds
- **Manufacturer:** Waterco

## 7. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact Waterco directly or visit their official website. Always refer to your product's original documentation for the most accurate and up-to-date warranty details.

**Manufacturer:** Waterco  
**ASIN:** B0F53CR876

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**