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Tier1 e1785435-d38b-451a-b4db-71e09a703942

## Tier1 Pool & Spa Filter Cartridge User Manual

Model: e1785435-d38b-451a-b4db-71e09a703942

### PRODUCT OVERVIEW

The Tier1 Pool & Spa Filter Cartridge is designed to provide high-quality filtration for your pool or spa, ensuring clean and clear water. This product is a replacement for various models, including Hayward CX1380RE, Star Clear Plus C7490, Filbur FC-1297, and Pleatco PA137, among others. It features a pleated fabric filter media that maximizes contact for greater capacity and reduction of impurities.





Image: A single Tier1 Pool & Spa Filter Cartridge shown from an angled perspective, highlighting its pleated fabric construction and blue end caps. This design contributes to its filtration efficiency.

The filter's durable and washable 137 sq ft fabric is engineered with tight porosity and a dense weave to effectively sift out unwanted hair, leaves, dust, sediment, and sand. Its high-strength, high-flow design ensures optimal performance with less wear and tear on your pump.

## SETUP AND INSTALLATION

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Proper installation of your Tier1 filter cartridge is crucial for optimal performance and longevity. Ensure your pool or spa system is turned off and depressurized before beginning the installation process.

1. **Prepare the Filter Housing:** Turn off the pump and close any necessary valves to isolate the filter. Open the air relief valve on top of the filter to release any pressure. Remove the filter tank lid according to your system's manufacturer instructions.
2. **Remove Old Cartridge:** Carefully lift out the old filter cartridge. Dispose of it properly.
3. **Clean Housing (Optional but Recommended):** Inspect the inside of the filter housing for any debris and clean as necessary. Check the O-ring for cracks or wear; replace if damaged. Lubricate the O-ring with a silicone-based lubricant if needed.
4. **Install New Cartridge:** Gently lower the new Tier1 filter cartridge into the filter housing. Ensure it is seated correctly and securely. The cartridge is designed for systems that use a 7 inch (Outside diameter) x 32 3/4 inch (Length) spa or pool filter.
5. **Secure Housing:** Replace the filter tank lid and secure it according to your system's manufacturer instructions. Close the air relief valve.
6. **Restart System:** Open any valves that were closed and turn on the pump. Once water begins to flow, slowly open the

air relief valve until a steady stream of water emerges, then close it.

7. **Record Pressure:** Note the pressure gauge reading immediately after installation. This will be your baseline for determining when maintenance is required.

**REDUCE PUMP STRESS**

INJECTED MOLDED CORE	PVC DRILLED CORE
✓ Strong Reliable Construction	✗ Weak & Unstable Construction
✓ Superior Water Flow	✗ Inconsistent & Inefficient Flow
✓ Uniform Sediment Distribution	✗ Uneven Sediment Distribution

**OTHER PRODUCTS**

Image: This diagram illustrates the internal structure of the Tier1 filter's injected molded core compared to a PVC drilled core found in other products. The Tier1 design promotes strong, reliable construction, superior water flow, and uniform sediment distribution, which helps reduce pump stress.

## OPERATING GUIDELINES

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Once installed, the Tier1 filter cartridge works continuously to maintain the cleanliness of your pool or spa water. The pleated fabric design maximizes the filtration surface area, allowing for efficient removal of contaminants.

- **Continuous Filtration:** The filter operates as part of your pool or spa's circulation system, continuously drawing water through its pleated media to trap impurities.
- **Optimal Flow:** The high-strength, high-flow design ensures that water passes through the filter efficiently, maintaining good circulation and reducing strain on your pump.
- **Debris Capture:** The dense weave and tight porosity of the fabric effectively capture a wide range of particles, including hair, leaves, dust, sediment, and sand, contributing to sparkling clear water.



Image: This illustration depicts the Tier1 filter cartridge actively cleaning water by removing common impurities such as hair, leaves, sediment, sand, dirt, and general debris, resulting in sparkling clear water.

## MAINTENANCE

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Regular maintenance of your Tier1 filter cartridge is essential to prolong its lifespan and ensure consistent water quality. The filter is designed to be durable and washable.

- **When to Clean/Replace:** It is recommended that you clean or replace your pool or spa filter when the pressure gauge on the filter tank reaches 8 psi (pounds per square inch) above the pressure recorded when the filter was first installed. This indicates that the filter is becoming clogged and its efficiency is reduced.
- **Cleaning Procedure:**
  - a. Turn off the pump and release pressure from the filter system.
  - b. Remove the filter cartridge from the housing.
  - c. Rinse the pleats thoroughly with a garden hose, working from top to bottom. Use a filter cleaning tool or nozzle for best results.
  - d. For deeper cleaning, soak the cartridge in a specialized filter cleaning solution overnight to remove oils and stubborn debris. Follow the cleaner's instructions.
  - e. Rinse again thoroughly after soaking.
  - f. Reinstall the clean cartridge as per the "Setup and Installation" section.
- **Longevity:** The uniform fabric and sturdy, evenly spaced pleats are designed to hold up to multiple cleanings without significant wear, contributing to a longer fabric lifespan.

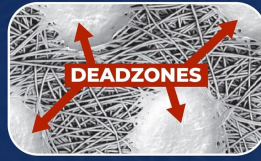
# SUPERIOR CLEANABILITY



## FLAT BOND FEATURES:

- ✓ Uniform fabric reduces clogs and is easier to clean.
- ✓ Utilizes 100% of the filter's surface area for maximum efficiency.
- ✓ Sturdy, evenly spaced pleats hold up to multiple cleanings without wear.

## OTHER PRODUCTS



## POINT BOND DRAWBACKS

- ✗ Filter deadzones clog with dirt and are difficult to clean.
- ✗ Blocks 20% of the filter's surface area reducing filter efficiency.
- ✗ Limp, uneven pleats wear more quickly and make cleaning difficult.

Image: This graphic compares the "Superior Cleanability" of Tier1's flat bond features against the drawbacks of point bond designs in other products. Tier1's uniform fabric reduces clogs and is easier to clean, utilizing 100% of the filter's surface area for maximum efficiency, and its sturdy pleats withstand multiple cleanings.

# 40% MORE DEBRIS HOLDING CAPACITY

## Trilobal Advantage



Greater Surface Area



Longer Fabric Lifespan



More Time Between Cleanings



Higher Filtration Efficiency



VS.



Trilobal fiber grooves create extra space to trap debris without blocking water flow. As a result, trilobal fabrics need cleaning less often than round fiber fabrics.



Image: This diagram explains the "Trilobal Advantage" of Tier1 filters, which offers 40% more debris holding capacity. Trilobal fibers create extra space to trap debris without blocking water flow, leading to a greater surface area, longer fabric lifespan, more time between cleanings, and higher filtration efficiency compared to round fibers.

## TROUBLESHOOTING

If you encounter issues with your Tier1 filter cartridge or pool/spa water quality, consider the following common troubleshooting steps:

## Common Issues and Solutions

Problem	Possible Cause	Solution
Reduced Water Flow / Low Pressure	Clogged filter cartridge; Air in the system; Pump issues.	Clean or replace filter cartridge; Bleed air from the system; Check pump and skimmer baskets for blockages.
Cloudy Water	Dirty filter; Improper chemical balance; Insufficient filtration time.	Clean or replace filter; Test and adjust water chemistry; Increase pump run time.
Filter Cartridge Damage	Improper installation; Chemical imbalance; Old age.	Ensure correct installation; Maintain proper water chemistry; Replace cartridge if damaged or at end of lifespan.

If these steps do not resolve the issue, consult a qualified pool or spa technician.

## SPECIFICATIONS

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Detailed specifications for the Tier1 Pool & Spa Filter Cartridge:

**Brand:** Tier1

**Model Number:** e1785435-d38b-451a-b4db-71e09a703942

**Material:** Pleated Fabric

**Product Dimensions (Overall):** 7"D x 7"W x 32.75"H

**Outside Diameter:** 7 inches

**Length:** 32 3/4 inches

**Filter Media Area:** 137 sq ft

**Item Weight:** 19 Pounds (for 4-pack)

**UPC:** 810004470743

**Compatible Models:** Replacement for Hayward CX1380RE, Star Clear Plus C7490, Filbur FC-1297, Pleatco PA137, Unicl C-7490, C1380RE, SmartFilter 550, BHCA5520MB, CA5500, CX1380REM, 090164021348, 090164021331, SD-01013, FC-6455, PA137-M, C-7490-4, CX1380-RE, C-5500, C5520, SD-00368, APCC7251, 17-175-1339 filtration cartridges.

## WARRANTY AND SUPPORT

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Tier1 products are manufactured to high-quality standards. Specific warranty details are typically provided with your purchase documentation or can be found on the official Tier1 website. Please retain your proof of purchase for any warranty claims.

For technical support, product inquiries, or further assistance, please visit the official Tier1 website or contact their customer service department. Contact information can usually be found on the product packaging or the brand's official online presence.

*Note: Always refer to the specific instructions provided by your pool or spa system manufacturer for compatibility and installation procedures.*