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> [Hayward](#) /

> [Hayward W3S180T ProSeries Sand Filter User Manual](#)

Hayward W3S180T

Hayward W3S180T ProSeries Sand Filter User Manual

Model: W3S180T | Brand: Hayward

1. PRODUCT OVERVIEW

The Hayward ProSeries 18-inch Top-Mount Sand Filter (Model W3S180T) is engineered for efficient and reliable filtration in above-ground pools. It features a unique self-cleaning lateral system designed to provide consistent flow and evenly distributed water, ensuring balanced backwashing and long-lasting performance. This filter is suitable for various applications, including above-ground pools, on-ground pools, small in-ground pools, aquariums (salt or freshwater), and ponds, delivering sparkling clear water for years.

Key Features:

- Durable corrosion-proof materials for dependable all-weather performance.
- Precision-engineered umbrella-fold self-cleaning lateral system for efficient flow and balanced backwashing.
- 7-position VariFlo valve provides maximum flow at lower pressure drop.
- Large pressure sand/water drain for rapid winterizing or servicing.
- Integral top diffuser ensures even distribution of water over the entire sand bed for maximum filtration area use.





Figure 1: Hayward W3S180T ProSeries Sand Filter. This image shows the complete sand filter unit with its top-mounted multiport valve and pressure gauge.

HAYWARD PROSERIES

FOR
ABOVE
GROUND
POOLS

SAND
FILTER



1.5 IN
MULTIPOINT
VALVE
INCLUDED

150 LBS
OF SAND
REQUIRED

Figure 2: Key features of the Hayward ProSeries Sand Filter. This diagram highlights that the filter is for above-ground pools, is a sand filter, includes a 1.5-inch multiport valve, and requires 150 lbs of sand.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Hayward ProSeries Sand Filter. Please follow these general guidelines. Refer to the detailed diagram and specific instructions provided with your product packaging for precise steps.

1. **Site Selection:** Choose a level, firm surface as close to the pool as possible. Ensure adequate drainage and protection from direct sunlight or extreme weather.
2. **Filter Assembly:** Carefully unpack all components. Ensure the underdrain laterals are properly seated at the bottom of the filter tank.
3. **Sand Loading:** Place a small amount of water in the tank to cushion the laterals. Carefully add the recommended amount of filter sand (typically 150 lbs for the 18-inch model) into the tank. Ensure the standpipe is centered during this process.
4. **Multiport Valve Installation:** Secure the 7-position VariFlo valve to the top of the filter tank, ensuring a tight seal.
5. **Plumbing Connections:** Connect the pool's skimmer/main drain line to the 'PUMP' port on the

valve, and the return line to the 'RETURN' port. Connect the waste line to the 'WASTE' port. Ensure all connections are secure and leak-free.

6. **Pump Connection:** Connect your pool pump to the filter system according to the pump manufacturer's instructions.
7. **Initial Startup:** Before starting the pump, ensure the filter tank is filled with water. Set the multiport valve to the 'BACKWASH' position and start the pump. Backwash until the water in the sight glass is clear. Then, set the valve to 'RINSE' for 30-60 seconds, followed by 'FILTER'.

3. OPERATING INSTRUCTIONS

The 7-position VariFlo valve allows for various operational modes. Always turn off the pump before changing valve positions to prevent damage to the system.

- **FILTER:** Normal filtration mode. Water flows through the sand bed, trapping debris, and returns to the pool.
- **BACKWASH:** Used for cleaning the filter sand. Water flow is reversed, flushing trapped debris out through the waste port. Perform when pressure gauge reads 8-10 PSI above starting pressure.
- **RINSE:** Used after backwashing to flush out any remaining dirty water from the filter and settle the sand bed. Run for 30-60 seconds.
- **WASTE:** Bypasses the filter, sending water directly out the waste port. Useful for vacuuming heavy debris directly to waste or lowering pool water level.
- **RECIRCULATE:** Bypasses the filter, circulating water directly back to the pool. Useful for chemical distribution without filtration.
- **CLOSED:** Shuts off all flow to the filter and pool. Use only when servicing the pump or filter. Never operate the pump with the valve in the 'CLOSED' position.
- **WINTERIZE:** (If applicable) Position for draining the filter for winter storage.

4. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your sand filter.

- **Backwashing:** Backwash your filter regularly, typically when the pressure gauge reads 8-10 PSI above its clean operating pressure. This usually occurs every 1-2 weeks, depending on pool usage and debris.
- **Sand Replacement:** Filter sand typically lasts 3-5 years before needing replacement. Over time, sand particles wear down and become less effective at trapping debris.
- **Winterizing:** In colder climates, the filter must be properly winterized to prevent freeze damage. Drain all water from the filter tank and plumbing lines. Store the multiport valve in the 'WINTERIZE' or 'CLOSED' position with the drain plug removed.
- **Inspection:** Periodically inspect the filter tank, valve, and plumbing for any signs of cracks, leaks, or wear. Address any issues promptly.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your sand filter.

- **Low Water Flow:**

Possible Causes: Clogged skimmer/pump basket, dirty filter sand, undersized pump, closed valve.

Solutions: Clean baskets, backwash/rinse filter, ensure valve is in 'FILTER' position, check pump for issues.

- **Cloudy Pool Water:**

Possible Causes: Insufficient filtration time, dirty filter sand, improper chemical balance, too much sand.

Solutions: Run filter longer, backwash/rinse filter, test and adjust pool chemistry, ensure correct sand level.

- **Water Leaking from Valve/Tank:**

Possible Causes: Loose connections, worn O-rings/gaskets, cracked tank/valve.

Solutions: Tighten connections, replace worn O-rings/gaskets, inspect for damage and replace parts if necessary.

- **Sand Returning to Pool:**

Possible Causes: Broken laterals, too much sand, improper backwashing.

Solutions: Inspect and replace broken laterals, ensure correct sand level, perform proper backwash and rinse cycles.

6. TECHNICAL SPECIFICATIONS

Specification	Value
Product Dimensions	20.3 x 20.3 x 36.4 inches
Item Weight	29 pounds
Manufacturer	Hayward
Item Model Number	W3S180T
Filter Type	Sand Filter
Filter Diameter	18 inches
Valve Type	7-position VariFlo Top-Mount

7. WARRANTY AND SUPPORT

Hayward products are manufactured to the highest standards of quality and reliability. For specific warranty information regarding your W3S180T ProSeries Sand Filter, please refer to the warranty card included with your product or visit the official Hayward website. For technical support, replacement parts, or further assistance, please contact Hayward customer service or an authorized Hayward dealer.

No relevant official product videos were found for embedding based on the provided data.