Pentair EC-180008

Pentair FNS Plus 48 Sq. Ft. DE Pool Filter (EC-180008) Instruction Manual

Model: EC-180008

1. Product Overview

The Pentair FNS Plus 48 Sq. Ft. DE Pool Filter (EC-180008) is engineered for superior pool water filtration, ensuring crystal clear water. It features a chemical-resistant fiberglass-reinforced polypropylene tank, providing exceptional strength and a long service life. The large filtration area maximizes efficiency, leading to longer periods between cleanings and reduced maintenance.
Key benefits of this filter include:

- **Energy Efficient:** Designed for optimal performance with reduced energy consumption.
- **Superior Filtration and Water Clarity:** Effectively removes impurities for sparkling clean water.
- **Ideal for Use with VS Pumps:** Compatible with variable speed pumps for enhanced efficiency.
- **Filters Down to 3-5 Microns:** Captures even the finest particles for exceptional water quality.



A beige-colored Pentair FNS Plus 48 Sq. Ft. DE Pool Filter unit, shown with its standard plumbing connections, ready for installation.



An infographic highlighting the benefits of the Pentair FNS Plus filter, including energy efficiency, superior water clarity, compatibility with variable speed pumps, and its ability to filter particles as small as 3-5 microns.

2. Setup

Installation of the Pentair FNS Plus 48 Sq. Ft. DE Pool Filter requires careful attention to ensure proper function and safety. It is recommended that installation be performed by a qualified pool professional.
Before starting, ensure all necessary components are present and undamaged. The filter features an easily removable filter grid pack, secured by a single nut, which simplifies internal access.

Installation Tips:

1. Check the tank clamp and all connection fittings to ensure they are secure and properly sealed.
2. Add the specified amount of D.E. (Diatomaceous Earth) filter media according to the manufacturer's instructions for your specific pool volume and filter size.



A visual guide for filter installation, set against a backdrop of a residential pool, detailing steps like checking the tank clamp and adding D.E. filter media.

3. Operating Instructions

Once installed and filled with the appropriate amount of D.E. filter media, the Pentair FNS Plus filter operates to provide continuous filtration. Monitor the pressure gauge regularly to determine when backwashing is required.
The filter is designed to run quietly and effectively, capturing fine particles to maintain crystal clear water. Ensure your pump is running at the recommended flow rate for optimal filtration.

4. Maintenance

Regular maintenance is crucial for the longevity and efficiency of your Pentair FNS Plus filter. This D.E. filter maximizes the useful filtration area, allowing for longer periods between cleanings and saving you time on pool maintenance.

Maintenance Tips:

1. **Backwash:** Backwash the filter when the pressure gauge reads 8-10 psi above the starting (clean filter) pressure.
2. **D.E. Addition:** Do not add D.E. directly to the skimmer. Always add D.E. through the skimmer after backwashing, as per the manufacturer's instructions.
3. **Filter Cleaning:** Clean the filter out at least once every 6 months, or more frequently depending on pool usage and debris levels.
4. **Grid Replacement:** Replace filter grids every 7-10 years on average, or sooner if signs of damage or reduced performance are observed.



An image providing essential maintenance tips for the pool filter, such as backwashing procedures, regular cleaning, and recommended grid replacement intervals, with a pool water background.

5. Troubleshooting

Should you encounter any issues with your Pentair FNS Plus filter, refer to the following general guidelines:

- **Reduced Water Flow:** Check for clogged skimmer baskets, pump strainer, or a dirty filter. Backwash the filter if the

pressure gauge indicates a high reading (8-10 psi above clean pressure).

- **Cloudy Water:** Ensure proper D.E. levels. Check for leaks in the system or damaged filter grids. Verify the chemical balance of your pool water.
- **Leaks:** Inspect all connections and the tank clamp for proper sealing. Replace O-rings or gaskets if they appear worn or damaged.

For persistent problems or issues not covered here, consult a qualified pool technician.

6. Specifications

Product Dimensions	22.5 x 22.5 x 45 inches
Item Model Number	EC-180008
Brand	Pentair
Filter Type	DE Pool Filter
Filtration Area	48 Sq. Ft.
Tank Material	Chemical-resistant fiberglass-reinforced polypropylene

7. Warranty and Support

This product is manufactured by Pentair. For specific warranty details and customer support, please refer to the documentation included with your purchase or visit the official Pentair website. A 30-day return policy is typically offered by sellers for this product.
Pentair is committed to providing solutions that help people move, improve, and enjoy water, with sustainable applications that ensure the health of the world. Their pool and spa solutions are engineered to filter and clean water, with automation equipment designed for easy control.

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How do I set the AM and PM filtration times for the Pentair FNS Plus 48 Sq. Ft. DE Pool Filter (EC-180008)?

The Pentair FNS Plus DE Pool Filter (EC-180008) is a mechanical filtration tank and does not have a built-in clock, timer, or electronic control panel to set AM/PM schedules directly on the unit.Filtration timing...

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