

Carvin B00NBY9UJE

Carvin Laser 22-inch Sand Filter System User Manual

Model: B00NBY9UJE

PRODUCT OVERVIEW

The Carvin Laser 22-inch Sand Filter System is engineered for efficient filtration of above-ground swimming pools up to 31,000 gallons. Its design ensures even water distribution across the sand bed, preventing channeling and promoting superior filtration and backwashing. The system features a durable, UV- and corrosion-resistant blow-molded tank and a versatile 7-way dial valve for various operational modes.



Figure 1: Carvin Laser 22-inch Sand Filter System with multi-port valve.

This filter system is designed for longevity and ease of use, featuring a deep, high-capacity sand bed that extends filter cycles between backwashings. The tank includes a bottom drain for convenient draining and winterizing. Included with the filter tank are a high-pressure hose and two hose adapters. Please note that the filter pump and

sand are not included.

SETUP AND INSTALLATION

Due to the significant weight of the sand filter once filled, it is crucial to determine its permanent location before adding sand or connecting plumbing. Ensure the chosen site is level, stable, and can support the full weight of the filter. The non-corrosive resin clamp on the 7-way dial valve allows for simple installation and service.

- **Placement:** Select a permanent, level, and stable location for the filter system.
- **Sand Capacity:** The 22-inch tank holds 250 lbs. of sand (sand not included).
- **Plumbing:** The valve features 1 1/2-inch plumbing connections. Use the included high-pressure hose and two hose adapters for connection to your pool pump and return lines.
- **Secure Connections:** Ensure all connections are tight to prevent leaks.



Figure 2: Included high-pressure hose and hose adapters for plumbing connections.

OPERATING THE 7-WAY DIAL VALVE

The Carvin Laser sand filter is equipped with a 7-way dial valve that controls various operational modes. To switch between functions, always turn off the pool pump before moving the handle. The functions are:

1. **Filtration:** Standard operating mode for filtering pool water.
2. **Backwash:** Reverses water flow to clean the sand bed. Used when pressure gauge indicates high pressure.
3. **Rinse:** Used after backwashing to settle the sand bed and flush out remaining debris before returning to filtration.
4. **Drain:** Allows for draining water from the pool or filter.
5. **Winterize:** Prepares the filter for cold weather storage.
6. **Test:** For diagnostic purposes.
7. **Whirlpool:** (Also referred to as Recirculate) Circulates water without filtering, useful for chemical distribution.



Figure 3: Top view of the 7-way dial valve, showing the various operational settings.



Figure 4: Detailed view of the valve handle, used to select the desired function.

MAINTENANCE

Regular maintenance is essential for optimal filter performance and longevity. Key maintenance tasks include:

- **Pressure Monitoring:** Regularly check the pressure gauge located on the valve. An increase in pressure indicates that the sand filter needs backwashing.
- **Backwashing:** Perform backwashing when the pressure gauge reads 8-10 PSI above the clean filter pressure, or as recommended by your pool maintenance schedule. This process cleans the sand bed by reversing water flow.
- **Rinsing:** Always rinse the filter after backwashing to ensure all dirty water is flushed out before returning to filtration mode.
- **Winterizing:** Follow the winterize function and instructions to properly prepare the filter for off-season storage, preventing damage from freezing. The tank's bottom drain facilitates this process.



Feature	Detail
Product Model	22-inch Laser Sand Filter System
Pool Type Compatibility	Above Ground Pools
Maximum Pool Capacity	Up to 31,000 gallons
Sand Capacity	250 lbs. (sand not included)
Plumbing Size	1 1/2" on valve
Tank Material	Blow-molded, UV- and corrosion-resistant
Valve Type	7-way dial valve
Filtration Rate	66 gpm (53 gpm for commercial installations)
Maximum Flow Rate	25 gpm (20 gpm for commercial installations)
Maximum Pressure	50 PSI
Included Accessories	(1) High pressure hose, (2) hose adapters

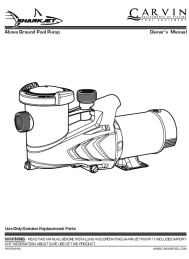
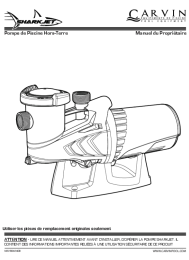

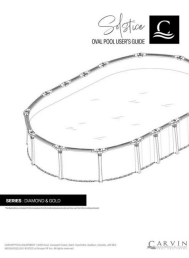
WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please refer to the warranty card included with your purchase or visit the official Carvin website. Keep your purchase receipt as proof of purchase for warranty claims.

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Related Documents - B00NBY9UJE

	<p>Carvin Solstice Round Pool User's Guide: Installation and Maintenance</p> <p>Comprehensive guide for installing, maintaining, and winterizing Carvin Solstice Round Above Ground Pools. Covers safety, site preparation, assembly for Silver, Gold, and Diamond series, water chemistry, and replacement parts.</p>
	<p>CARVIN Diamond Series Oval Pool User Manual</p> <p>User manual for the CARVIN Diamond Series Oval Above-Ground Pool, detailing installation, safety guidelines, maintenance, winterization, and warranty information.</p>

	<p>Carvin SharkJet Above Ground Pool Pump Owner's Manual</p> <p>Comprehensive guide for the Carvin SharkJet Above Ground Pool Pump (Model M22904246A). Includes installation, operation, safety warnings, maintenance, troubleshooting, parts list, and warranty information.</p>
	<p>Carvin SharkJet Above Ground Pool Pump Owner's Manual</p> <p>This manual provides instructions for the installation, operation, and maintenance of the Carvin SharkJet Above Ground Pool Pump. It includes safety precautions, troubleshooting tips, and parts information.</p>
	<p>Carvin DCM Series Power Amplifiers: DCM2000, DCM2500, DCM2570 Operating Manual</p> <p>Explore the Carvin DCM Series power amplifiers (DCM2000, DCM2500, DCM2570). This manual details their pristine sound, brute power, rugged construction, and modular design for professional audio applications.</p>
	<p>Carvin Solstice Oval Pool User's Guide</p> <p>Comprehensive user's guide for the Carvin Solstice Oval Pool, covering installation, safety, maintenance, and winterization. Includes detailed instructions and diagrams for assembly and care.</p>