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Intex 28647EG

Intex Krystal Clear Sand Filter Pump

MODEL 28647EG

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1. Introduction

The Intex Krystal Clear Sand Filter Pump is designed to keep your above-ground pool water clean, soft, and refreshing. This system utilizes natural sand for effective water filtration, reducing the need for frequent cartridge replacements. It features a 6-function control valve for versatile pool maintenance and a built-in timer for automated operation.



Image 1.1: The Intex Krystal Clear Sand Filter Pump, showing the sand tank, pump motor, and multi-port valve.

2. Safety Information

Before installing and operating this product, read, understand, and follow all instructions carefully. Failure to do so can result in serious injury or property damage. Always ensure the pump is disconnected from the power source before performing any maintenance or service.

- Do not operate the pump if the GFCI (Ground Fault Circuit Interrupter) is not functioning correctly. Test the GFCI before each use.
- Ensure the pump is installed on a solid, level surface, at least 10 feet (3.0 meters) from the pool.
- Never operate the pump when people are in the pool.
- Keep children away from the pump and electrical connections.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawnmowers, hedge trimmers, or other equipment.



Image 2.1: GFCI plug with Reset and Test buttons. Always test the GFCI before operating the pump.

3. Setup

Proper installation is crucial for the efficient and safe operation of your sand filter pump. Follow these steps for initial setup:

1. **Placement:** Position the sand filter pump on a firm, level surface near your above-ground pool. Ensure it is at least 10 feet (3.0 meters) away from the pool edge.
2. **Sand Filling:** Remove the multi-port valve from the top of the tank. Insert the sand shield (if provided) into the tank opening. Carefully pour the recommended amount of filter sand (typically 55 lbs of #20 silica sand) into the tank. Remove the sand shield and clean any sand from the tank opening.
3. **Valve Installation:** Reattach the multi-port valve to the top of the tank, ensuring a secure and watertight seal.
4. **Hose Connections:** Connect the hoses from your pool's inlet and outlet fittings to the corresponding ports on the sand filter pump. Ensure all connections are tight to prevent leaks. The pump includes two hose conversion adapters for various pool types.
5. **Power Connection:** Plug the GFCI-equipped power cord into a properly grounded electrical outlet.



Image 3.1: The sand filter pump properly connected to an above-ground pool, showing the hose routing.



Image 3.2: A detailed side view of the sand filter pump, highlighting the connections and overall structure.

Your browser does not support the video tag.

Video 3.1: Official Intex video demonstrating the setup and features of the Krystal Clear Sand Filter Pump.

4. Operation

The sand filter pump features a 6-function control valve and a built-in timer for convenient operation.

4.1. 6-Function Control Valve

The multi-port valve allows you to select different modes of operation:

- **Filter:** Normal filtering mode. Water passes through the sand bed, trapping debris.
- **Backwash:** Reverses water flow to clean the sand bed. This expels trapped debris out through the waste port.
- **Rinse:** Used after backwashing to settle the sand bed and flush any remaining dirty water to waste.
- **Recirculate:** Bypasses the filter bed to circulate water without filtering. Useful for mixing chemicals.
- **Drain:** Drains water directly from the pool through the waste port, bypassing the filter.
- **Closed:** Shuts off all flow to the filter and pool. Use this setting when performing maintenance on the pump or pool.

Important: Always turn off the pump before changing the valve position to prevent damage.

4.2. Built-in Timer

The pump includes a 24-hour automatic timer to set the operating time. This allows for hassle-free pool maintenance. To set the timer, turn the pump on at the desired start time and select the duration. The pump will then operate daily for the set duration at that time.



Image 4.1: The timer switch on the pump motor, indicating settings for Timer, Off, and On.

4.3. Flow Rate

This pump provides a flow rate of 2,800 gallons per hour (GPH), resulting in a system flow rate of 2,150 GPH. This ensures efficient circulation and filtration for above-ground pools up to 24 feet in diameter or 32x16 feet rectangular.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your sand filter pump.

5.1. Backwashing

Monitor the pressure gauge on the multi-port valve. When the pressure rises 5-10 PSI above its normal operating pressure, it's time to backwash the filter. This process cleans the sand bed by reversing water flow.

1. Turn off the pump.
2. Set the multi-port valve to the 'Backwash' position.
3. Turn on the pump. Backwash until the water flowing out of the waste port is clear (typically 1-2 minutes).
4. Turn off the pump.
5. Set the multi-port valve to the 'Rinse' position.
6. Turn on the pump for 30-60 seconds to settle the sand.
7. Turn off the pump.
8. Set the multi-port valve back to the 'Filter' position.
9. Turn on the pump for normal operation.

5.2. Strainer Basket Cleaning

The pump includes a strainer basket to catch larger debris before it reaches the sand filter. Regularly check and clean the strainer basket to maintain optimal flow and prevent pump damage.

1. Turn off the pump and disconnect it from the power source.
2. Close the plunger valves on the pool's inlet and outlet to prevent water flow.
3. Unscrew the strainer cover and remove the basket.
4. Empty and rinse the basket.
5. Replace the basket and secure the cover.
6. Open the plunger valves and reconnect power to the pump.



Image 5.1: The clear lid of the strainer basket, showing the basket inside, designed for easy debris removal.

5.3. Sand Replacement

The filter sand typically needs replacement only once every five years, making it a low-maintenance filtration solution.

6. Troubleshooting

If you encounter issues with your sand filter pump, refer to the following common problems and solutions:

- **Low Water Flow:**

Possible Causes: Clogged strainer basket, dirty sand filter, closed valves, air in the system.

Solutions: Clean strainer basket, backwash/rinse filter, ensure all valves are open, bleed air from the system.

- **Pump Not Starting:**

Possible Causes: No power, tripped GFCI, motor issue.

Solutions: Check power connection, reset GFCI, ensure timer is set correctly. If issues persist, contact customer support.

- **Water Leaks:**

Possible Causes: Loose connections, damaged O-rings/gaskets.

Solutions: Tighten all hose connections, inspect and replace any worn O-rings or gaskets.

- **Cloudy Pool Water:**

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

Solutions: Increase pump operating time, backwash/rinse filter, test and adjust pool chemistry.

7. Specifications

Feature	Specification
Brand	Intex
Model Number	28647EG

Pump Flow Rate	2,800 GPH (10.5 m ³ /hr)
System Flow Rate	2,150 GPH (8.0 m ³ /hr)
Voltage	110-120V
Horsepower	0.75 HP
Filter Tank Size	14 inches (356 mm)
Sand Capacity	55 lbs (25 kg) of #20 Silica Sand
Product Dimensions	15.75"L x 26.25"W x 23.38"H
Item Weight	45.3 Pounds
Power Source	Corded Electric with GFCI



Image 7.1: Diagram showing the length, width, and height dimensions of the sand filter pump.

Product Class	Pool Size	Sand Filter Pumps		
		1,200 Gal	1,600 Gal	2,650 Gal
Easy Set Pools	8'x30"			
	10'x30"			
	12'x30"			
	12'x36"			
	15'x36"	X	X	
	15'x42"	X	X	
	15'x48"	X	X	
	18'x42"	X	X	X
	18'x48"	X	X	X
Round Metal Frame Pools	10'x30"			
	12'x30"			
	15'x36"	X	X	
	15'x42"	X	X	
	15'x48"	X	X	
	18'x48"	X	X	X
Ultra Frame Pools	16'x48"	X	X	X
	18'x52"	X	X	X
Oval Frame Pools	10'x18'x42"	X	X	
	12'x20'x48"	X	X	X
Rectangular Ultra Frame Pools	9'x18'x52"	X	X	X
	12'x24'x52"		X	X
	16'x32'x52"			X

Image 7.2: Compatibility chart indicating suitable pool sizes for various Intex sand filter pump models.

8. Warranty & Support

This Intex Krystal Clear Sand Filter Pump comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, replacement parts, or further assistance, please visit the official Intex website or contact their customer service department. You can also visit the [Intex Store on Amazon](#) for more information.