choosmo CMF 2208

choosmo 13-inch Sand Filter System

Model: CMF 2208 with 6-Way Valve Pool Pump 2500GPH

1. Introduction

Thank you for choosing the choosmo 13-inch Sand Filter System. This system is designed to provide efficient and reliable filtration for above-ground pools, ensuring clean and clear water. Featuring a durable sand tank, a powerful 1/3HP pump, and a versatile 6-way valve, this unit simplifies pool maintenance. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your product.

2. Safety Information

- Always disconnect power to the pump before performing any maintenance or adjustments.
- Ensure the pump is installed on a solid, level surface to prevent vibration and movement.
- Do not operate the pump dry. Ensure the pump is primed with water before starting.
- Keep all electrical connections dry and protected from water.
- The pump is equipped with an overheat protection device. If the pump stops, allow it to cool before restarting.
- Never change the 6-way valve position while the pump is running. Always turn off the pump first.
- Use only pipe fittings designed for plastics (e.g., Teflon tape, Permatex No. 2 or equivalent) for proper sealing.
- Keep children and pets away from the filter system during operation.

3. Package Contents

Verify that all components are present before beginning assembly:

- 13-inch Sand Filter Tank
- 1/3HP Pool Pump with Pre-filter Basket
- 6-Way Multi-Port Valve
- Pressure Gauge
- Connecting Hoses and Clamps
- Drain Plug and Gaskets

- Base for Pump and Tank
- User Manual

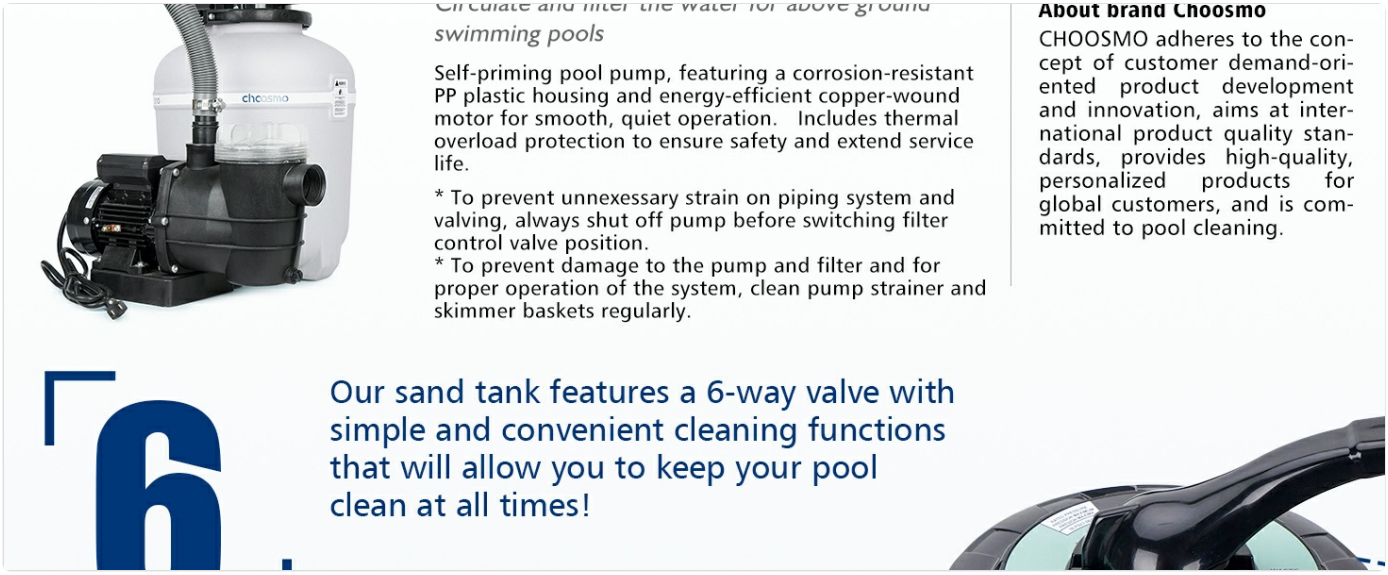

Figure 1: All components included in the choosmo 13-inch Sand Filter System package.

4. Specifications



Figure 2: Technical parameters of the choosmo 13-inch Sand Filter System.

Feature	Specification
Product Dimensions	19.5 x 13 x 24 inches
Item Weight	27.2 pounds
Model Number	CMF 2208
Input Power	400W
Voltage / Hz	115V / 60Hz
Horse Power	1/3 HP
Pump Max. Flow	2500 GPH
Max. Working Pressure	2.5 Bar
Quartz Sand Particles	0.018-0.022 Inch (approx. 61 lbs)
Hose Fitting Size	1.25 Inch, 1.5 Inch
Valve Type	Six-Way Valve
Max. Water Temperature	104°F



Figure 3: Product dimensions for the choosmo 13-inch Sand Filter System.

5. Setup & Installation

Follow these steps to properly set up your sand filter system:

1. **Prepare the Tank:**
   a. Install the drain plug and associated gaskets at the bottom of the tank. Ensure a tight seal.
   b. Place the central pipe inside the tank.
2. **Add Filter Sand:**
   a. Cover the central pipe opening to prevent sand from entering.
   b. Carefully pour approximately 61 lbs of 0.018-0.022 inch quartz sand into the tank.
3. **Install the 6-Way Valve:**
   a. Ensure the O-ring is correctly seated on the valve.
   b. Align the 'PUMP' port on the valve with the pump's outlet port.
   c. Secure the valve to the tank using the provided clamp and screws. Tighten securely.
4. **Install Pressure Gauge and Drain Plug:**
   a. Apply Teflon tape to the threads of the pressure gauge.
   b. Screw the pressure gauge into the designated port on the valve.
   c. Install the small drain plug on the side of the valve.
5. **Connect the Pump:**
   a. Attach the pump to its base using the provided screws.
   b. Connect the short flexible hose from the pump's outlet to the 'PUMP' port on the 6-way valve. Secure with clamps.
6. **Connect to Pool:**
   a. Connect the pool's intake hose to the pump's inlet.
   b. Connect the pool's return hose to the 'RETURN' port on the 6-way valve.
   c. Ensure all connections are tight and leak-free.

Your browser does not support the video tag.

Video 1: Official choosmo 13-inch Sand Filter System Installation Guide. This video demonstrates the step-by-step assembly process for the sand filter and pump.

6. Operating Instructions

The 6-way multi-port valve allows for various operational modes.**Always turn off the pump before changing the valve position.**



Figure 4: The 6-way valve with its various functions clearly labeled.

- **FILTER:** This is the standard operating mode for daily filtration. Water flows through the sand, trapping debris, and returns to the pool.
- **BACKWASH:** Used to clean the filter sand. Water flows in reverse through the filter, flushing trapped debris out through the waste port. Perform when pressure gauge reading is 8-10 PSI above normal operating pressure.
- **RINSE:** Used after backwashing to flush any remaining dirty water from the valve and pipes to the waste port before returning to FILTER mode.
- **WASTE:** Bypasses the filter and sends water directly out the waste port. Useful for quickly lowering pool water level or vacuuming heavy debris directly to waste.
- **RECIRCULATE:** Bypasses the filter and circulates water directly back to the pool. Useful for mixing chemicals without filtering.
- **CLOSED:** Shuts off all flow to the filter and pump. Use this setting when performing maintenance on the pump or filter.

7. Maintenance

Regular maintenance ensures optimal performance and extends the life of your filter system.

- **Pre-filter Basket Cleaning:** The pump includes a transparent pre-filter basket to catch larger debris. Regularly check and clean this basket by turning off the pump, opening the clear lid, removing the basket, and rinsing it.



Figure 5: The transparent pre-filter basket, showing collected debris that needs regular cleaning.

- **Backwashing and Rinsing:** Perform backwashing and rinsing as described in the Operating Instructions section when the pressure gauge indicates a need for cleaning (typically 8-10 PSI above initial clean pressure).
- **Sand Replacement:** Filter sand typically lasts for an entire pool season or longer, depending on usage and water quality. Replace the sand when filtration efficiency decreases significantly even after backwashing.
- **Winterization:** Before freezing temperatures, drain all water from the pump, filter, and hoses. Store the pump and filter in a dry, protected area.

8. Troubleshooting

Problem	Possible Cause	Solution
Low water flow / Poor filtration	Clogged pre-filter basket Dirty filter sand Air in the system Low water level in pool	Clean pre-filter basket Perform backwash and rinse cycle Check all connections for air leaks, ensure pump is primed Add water to the pool
Water leaking from connections	Loose connections Damaged O-rings/gaskets	Tighten all hose clamps and threaded connections Inspect and replace any damaged O-rings or gaskets
Pump not starting	No power Overheat protection activated Motor issue	Check power supply and circuit breaker Allow pump to cool down, then restart Contact customer support
Cloudy pool water	Insufficient filtration time Improper chemical balance Dirty filter sand	Increase daily filtration time Test and adjust pool chemicals Perform backwash and rinse cycle, or replace sand

9. Warranty & Support

choosmo products are manufactured with the utmost care and undergo rigorous testing before leaving the factory. We stand by the quality of our 13-inch Sand Filter System.
In the unlikely event of problems with your pump or filter system, please contact our professional after-sale service team. Our customer support is dedicated to assisting you with any issues or questions you may have regarding installation, operation, or maintenance.
Please refer to your purchase documentation for specific warranty terms and contact information. Keep your proof of purchase for warranty claims.

© 2026 choosmo. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question