Monzana SF159

Monzana SF159 Sand Filter System User Manual

Model: SF159 | Brand: Monzana

1. PRODUCT OVERVIEW

The Monzana SF159 sand filter system is designed to reliably clean pool water, ensuring it remains hygienic. This powerful system features a 60-liter tank volume, operates with low noise and energy consumption, and includes a versatile 7-function, 6-way valve.

Figure 1: Overview of the Monzana SF159 Sand Filter System, showing the blue filter tank, black pump unit, and connecting hose.

Key Features:

- High flow rate up to 15,900 l/h.
- 7-function, 6-way valve for optimal operation.
- Tank capacity for up to 50 kg of filter sand.
- Integrated pressure indicator for monitoring filtration.
- 8-meter water column (max head).
- Robust plastic body and water-cooled copper motor core.
- Stable base for secure placement.
- Compatible with common filter media: filter sand, filter balls, and filter glass.
- IPX5 protection against water jets.
- Suitable for both fresh and saltwater pools.

2. SAFETY WARNINGS

WARNING: Always read and understand all instructions before installation and operation. Failure to follow these instructions can result in serious injury or property damage.

- Keep small parts and packaging materials out of reach of children to prevent choking hazards.
- Ensure all electrical connections comply with local regulations and are properly grounded.
- Do not operate the pump if the power cord or plug is damaged.
- Never run the pump dry. Ensure the filter boiler is completely filled with water before starting.
- Disconnect the power supply before performing any maintenance or cleaning.
- In areas prone to freezing temperatures, drain and disassemble the unit for winter storage to prevent damage.
- Do not overtighten valves. Use Teflon tape for connections to ensure maximum sealing.

3. SETUP AND INSTALLATION

3.1. Package Contents:

- 1 x Sand Filter with Pump and Pre-filter
- Necessary Accessories (hoses, clamps, etc.)
- 1 x Instruction Manual

3.2. Assembly Steps:

1. Place the filter system on a stable, level surface near your pool.
2. Connect the pump to the filter tank using the provided hoses and fittings. Ensure all connections are secure and leak-free. The connection thread is 1.5" or 1 1/2" (48mm).
3. Fill the filter tank with the appropriate filter media (sand, filter balls, or filter glass) up to the recommended level. The tank can hold up to 50 kg of sand.

4. Connect the system to your pool's inlet and outlet lines.

5. **Important:** Before first use, completely fill the filter boiler with water. The system is self-priming once filled.

6. Ensure the 6-way valve is set to the correct position for initial operation (e.g., "Filter" or "Backwash" depending on initial priming needs).

7. Plug the power cord into a suitable, grounded electrical outlet. The power cable length is 2 meters.

Leistungsstarke Pumpe

- Förderleistung 15.900 L / H
- Förderhöhe/Pumphöhe: 8,0 m
- max. Leistung: 600 W
- Kabellänge: 2 m
- Wasser- u. Luftgekühlter Motor
- Kühlrippen

Figure 3: Detailed view of the powerful pump unit, highlighting its robust construction and connection points.

4. OPERATING INSTRUCTIONS

The Monzana SF159 sand filter system features a 6-way valve with 7 functions to manage your pool's filtration needs. Always turn off the pump before changing the valve position.

4.1. 6-Way Valve Functions:

Top Mount 6 Wege Ventil mit 7 Funktionen

1. Filtrieren
2. Nachspülen
3. Zirkulieren
4. Rückspülen
5. Entleeren
6. Winter
7. Geschlossen

Sandfilter Tank

60 Liter Tank für bis zu 50 kg Filtersand

Geeignet auch für:
Filterbälle oder Filterglas

Klarsichtfenster

zur Überprüfung der Wasserqualität

Figure 4: The 6-way valve, clearly indicating its seven operational settings for comprehensive pool maintenance.

1. **Filter:** Normal filtration mode. Water passes through the filter media to remove impurities.
2. **Backwash:** Cleans the filter media by reversing water flow. This flushes trapped debris out of the filter. Perform when pressure gauge indicates high pressure.
3. **Rinse:** Used after backwashing to flush out any remaining dirty water from the filter and settle the filter media.
4. **Circulate:** Bypasses the filter, circulating water through the pump and back to the pool. Useful for distributing chemicals without filtering.
5. **Waste:** Drains water directly from the pool, bypassing the filter. Useful for lowering water level or vacuuming heavy debris directly to waste.
6. **Closed:** Shuts off all flow to the filter. Use when performing maintenance on the pump or filter.
7. **Winter:** Specific setting for winterizing the system, typically used to drain water from the valve itself.

4.2. Pressure Gauge:

The integrated pressure gauge allows you to monitor the filter's performance. A rising pressure indicates that the filter media is becoming clogged and requires backwashing.

Schlauchanschluss
für Schläuche oder Adapter mit einem Gewinde von 1 1/2" (48mm)

Komfortable Druckanzeige

Figure 5: A detailed view of the pressure gauge, essential for monitoring filter performance and determining when backwashing is needed.

4.3. General Operation Tips:

- Run the pump for several hours daily to ensure proper filtration. Consider using a timer for automated operation, especially during off-peak hours.
- Regularly check the pressure gauge. When the pressure rises significantly (e.g., 8-10 PSI above the clean filter pressure), perform a backwash cycle.
- Ensure the pre-filter basket is clean to prevent debris from entering the pump.

5. MAINTENANCE

5.1. Regular Cleaning:

- **Pre-filter Basket:** Regularly inspect and clean the pre-filter basket located on the pump. Turn off the pump, close

necessary valves, remove the lid, empty debris, and rinse the basket.

- **Backwashing:** Perform backwashing as indicated by the pressure gauge. Follow the operating instructions for the "Backwash" and "Rinse" functions.

5.2. Filter Media Replacement:

Filter sand typically needs to be replaced every 3-5 years, depending on usage and water quality. Filter balls or filter glass may have different replacement schedules as per their manufacturer's recommendations.

5.3. Winterization:

In regions with freezing temperatures, it is crucial to winterize your sand filter system to prevent damage from ice expansion.

- Disconnect the power supply.
- Drain all water from the pump, filter tank, and connecting hoses. Use the "Winter" or "Waste" valve setting as appropriate, and open drain plugs if available.
- Remove the pump and store it in a dry, frost-free location.
- Cover the filter tank to protect it from elements, or store it indoors if feasible.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Low water flow / Poor filtration	- Clogged pre-filter basket - Clogged filter media (sand) - Air in the system - Incorrect valve setting	- Clean pre-filter basket. - Perform backwash and rinse cycles. - Check for leaks in suction lines; ensure filter is filled with water. - Set valve to 'Filter' position.
Pump not starting	- No power supply - Motor overload/thermal cut-out - Impeller jammed	- Check power connection, circuit breaker. - Allow motor to cool down; check for proper ventilation. - Inspect impeller for debris; clear any obstructions (ensure power is off).
Water leaking from connections	- Loose connections - Damaged O-rings/gaskets	- Tighten all connections. - Inspect and replace damaged O-rings or gaskets.

7. TECHNICAL SPECIFICATIONS

Characteristic	Value
Model Number	MZPP28
Dimensions (H x W x L, with plate)	86.5 x 51 x 75.2 cm
Connection Thread	1.5" or 1 1/2" (48mm)
Tank Volume	60 liters

Characteristic	Value
Max. Flow Rate	15,900 l/h
Max. Head (Water Column)	8 meters
Rated Power	600 W
Max. Power	680 W
Protection Class	IPX5 (Protection against water jets)
Color	Black, Blue
Material	Robust Plastic (tank, pipes), Copper (motor core)
Weight	23.8 kg

8. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts, please refer to the contact details provided with your purchase documentation or visit the official Monzana website.

This product is TÜV Rheinland certified and GS safety tested, product group: MZPP.

Related Documents - SF159

[Monzana Sandfilteranlage Bedienungsanleitung](#)
Umfassende Bedienungsanleitung für die Monzana Sandfilteranlage (Modelle MZPP14, MZPP15, MZPP27). Enthält wichtige Sicherheitshinweise, Montageanleitungen, technische Daten und Fehlerbehebung für die Poolwasserfiltration.

[Monzana Konvektor Heizer Bedienungsanleitung](#)
Bedienungsanleitung für den Monzana Konvektor Heizer (Modelle DBHK002, DBHK011). Enthält Sicherheitshinweise, Bedienung, Wartung, Fehlerbehebung und technische Daten.

	Monzana Klimagerät 4 in1 XL Bedienungsanleitung Bedienungsanleitung für das Monzana Klimagerät 4 in1 XL (Modell-Nr.: MGK500W). Enthält Sicherheitshinweise, Bedienung, Wartung und technische Daten.
	Monzana Sandfilteranlage Bedienungsanleitung Umfassende Bedienungsanleitung für die Monzana Sandfilteranlage, einschließlich Aufbau, Inbetriebnahme, Wartung und Fehlerbehebung. Enthält wichtige Sicherheitshinweise für den sicheren Gebrauch.
	Monzana LE2000 Luftentfeuchter 20 Liter - Bedienungsanleitung Umfassende Bedienungsanleitung für den Monzana LE2000 Luftentfeuchter mit 20 Liter Kapazität. Enthält Informationen zu Installation, Bedienung, Wartung und Fehlerbehebung.
	Monzana Druckluft-Karosseriesäge DBDL005 Bedienungsanleitung Bedienungsanleitung für die Monzana Druckluft-Karosseriesäge Modell DBDL005. Enthält Sicherheitshinweise, Bedienungsanleitung, Wartung und technische Daten für das Werkzeug.