

Monzana MZPP05

Monzana MZPP05 Sand Filter System Instruction Manual

Model: MZPP05

1. INTRODUCTION

Thank you for choosing the Monzana MZPP05 Sand Filter System. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pool filter system. Please read these instructions carefully before use and keep them for future reference.

The Monzana MZPP05 sand filter system is designed to provide clean pool water with a high flow rate of up to 4500 liters per hour. It features a robust pump housing, a 4-way top-mount valve for easy operation, and a pressure indicator for monitoring the filtration process. The system can be used with filter sand, filter glass, or the included filter balls.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure the power supply matches the specifications of the pump.
- Always disconnect the power supply before performing any maintenance or cleaning.
- Do not operate the pump if the power cable or plug is damaged.
- Keep children and unauthorized persons away from the filter system during operation.
- The filter system is designed for use with swimming pools. Do not use it for other purposes.
- Protect the pump from frost. During winter, drain the system completely.
- Ensure all connections are securely tightened to prevent leaks.
- The system has an IPX5 protection class, meaning it is protected against water jets. However, avoid submerging the pump.

3. PACKAGE CONTENTS

Before assembly, verify that all components are present and undamaged:

- Sand Filter Tank (12-liter volume)
- Filter Pump
- 4-Way Top-Mount Valve
- Pressure Gauge
- 320g Filter Balls (replaces 12kg of filter sand)
- Connection Hoses
- Hose Clamps
- Sealing Tape
- 2-in-1 Adapter (Ø 32 mm – 38 mm)
- Other necessary seals and fittings



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Zubehör

Im Lieferumfang sind neben Dichtungen, Schellen und Schlauch auch 320g Filterbälle enthalten

Image 3.1: Included accessories and components for the Monzana MZPP05 Sand Filter System.

4. SETUP AND INSTALLATION

4.1 Preparing the Filter Tank

1. Place the filter tank on a stable, level surface near your pool.
2. Before first use, it is essential to completely fill the filter tank with water. This primes the self-priming sand filter.
3. If using filter sand or filter glass (instead of filter balls), carefully pour the chosen filter media into the tank. The tank volume is 12 liters.
4. If using the provided filter balls, place the 320g of filter balls into the tank. These replace 12kg of filter sand.

4.2 Connecting the 4-Way Valve and Pump

1. Attach the 4-way top-mount valve to the top of the filter tank. Ensure a secure and watertight connection using the provided clamping ring.
2. Connect the filter pump to the designated inlet on the 4-way valve.
3. Wrap all external threads tightly and completely with the supplied sealing tape in the opposite direction of screwing to ensure a leak-free seal.
4. When installing the pressure gauge, ensure the opening on the precision part's thread remains free of sealing tape to guarantee proper function.



Image 4.1: Overview of the assembled Monzana MZPP05 Sand Filter System.

4.3 Connecting to the Pool

1. Connect the pool's skimmer/suction line to the pump inlet.
2. Connect the pool's return line to the designated outlet on the 4-way valve.
3. Use the 2-in-1 adapters (Ø 32 mm or Ø 38 mm) and hose clamps to ensure secure connections for your pool hoses.

SAUBERES POOLWASSER

Die **Sandfilteranlage** besitzt ein **großes Tankvolumen** von **12 Litern**; den Tank können Sie statt mit den **enthaltenen Filterbällen** auch mit **Filtersand** oder **Filterglas** befüllen. Der **stabile Sockel** der **Filteranlage** sorgt für **festen und sicheren Stand**.



- ✓ **IPX8
SCHUTZKLASSE**
- ✓ **100 WATT
PUMPENLEISTUNG**
- ✓ **4,5M
PUMPHÖHE**
- ✓ **2M
KABELLÄNGE**
- ✓ **IPX8 GS
TÜV RHEINLAND**
- ✓ **KÜHLRIPPEN**

Image 4.2: Detail of the pump and hose connection points.

5. OPERATION

5.1 4-Way Valve Functions

The 4-way top-mount valve allows for different operational modes. Always turn off the pump before changing the valve position.

EINSTELLUNGEN BEIM TOP-MOUNT 4-WEGE VENTIL

Für **einwandfreie Handhabung** sorgt das **Top-Mount 4-Wege Ventil**. **Top Wasserqualität, wassersparend und gut für die Umwelt.**



- ✓ **RÜCKSPÜLEN**
- ✓ **NACHSPÜLEN**
- ✓ **BECKEN FILTERN**
- ✓ **ÜBERWINTERN**

Image 5.1: Settings for the 4-Way Valve.

- **Backwash (RÜCKSPÜLEN):** Used for cleaning the filter media. Water flows in reverse through the filter, dislodging trapped debris, and is then discharged through the waste port.
- **Rinse (NACHSPÜLEN):** Used after backwashing to flush out any remaining dirty water from the filter and settle the filter media. Water is discharged through the waste port.
- **Filter (BECKEN FILTERN):** The standard operating mode for filtering pool water. Water flows through the filter media, trapping debris, and clean water is returned to the pool.
- **Winter (ÜBERWINTERN):** A setting for winter storage, typically used to relieve pressure on the valve and allow for drainage.

5.2 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 or cleaning.

GROßES TANKVOLUMEN

Die mitgelieferten **Filterbälle** für Sandfilterpumpen liefern ein **ausgezeichnetes Filterergebnis** und sind aufgrund der **verwendeten Materialien recyclebar**.

320g Filterbälle ersetzen **12 kg Filtersand**.

Die Bälle sind einfach **von Hand zu waschen**.



Image 5.2: Pressure gauge and clamping ring detail.

6. MAINTENANCE

6.1 Cleaning the Filter Media

Regularly check the pressure gauge. When the pressure rises significantly above the normal operating pressure (typically 0.5-1 bar above clean filter pressure), it's time to backwash the filter:

1. Turn off the pump.
2. Set the 4-way valve to 'Backwash'.
3. Turn on the pump and run until the water flowing out of the waste port is clear (usually 2-3 minutes).
4. Turn off the pump.
5. Set the 4-way valve to 'Rinse'.
6. Turn on the pump and run for about 30-60 seconds to flush the lines.
7. Turn off the pump.
8. Set the 4-way valve back to 'Filter'.
9. Turn on the pump to resume normal filtration.

If using filter balls, they can be easily washed by hand and are recyclable.

ROBUSTER SPANNRING + KOMFORTABLE DRUCKANZEIGE

Der **robuste Spannungsring**, verbindet den **Filterkessel** mit dem **handlichen 4-Wege-Ventil**. Die **schaubaren Edelstahl Rohrschellen** sorgen für **maximalen Halt des Verbindungsrohr**. Mit der **praktischen Druckanzeige** behalten Sie den **Filterprozess** des Poolwassers im Blick.



2 in 1 Adapter für Schläuche mit
Ø 1 1/4" = 32mm
Ø 1 1/2" = 38mm

Image 6.1: Filter balls inside the tank.

6.2 Winterization

Before the first frost, the filter system must be completely drained and stored in a frost-free environment. Set the 4-way valve to 'Winter' to relieve pressure and facilitate drainage.

7. TROUBLESHOOTING

If you encounter issues with your Monzana MZPP05 Sand Filter System, consider the following common problems and solutions:

- **Low Water Flow:** Check for blockages in the skimmer, pump basket, or hoses. Ensure the filter media is clean (perform backwash/rinse). Verify the pump is properly primed.
- **Cloudy Pool Water:** This often indicates insufficient filtration time, dirty filter media, or improper chemical balance. Backwash the filter, check pool chemistry, and ensure the pump runs long enough daily.
- **Water Leaks:** Inspect all connections for loose fittings or damaged seals. Ensure sealing tape was applied correctly to threaded connections.

- **Pump Not Starting:** Check the power supply, circuit breaker, and ensure the pump is plugged in correctly.

For persistent issues, contact customer support.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	MZPP05
Max. Flow Rate	4500 l/h
Tank Volume	12 liters
Pump Power	100 W
Max. Pump Height	4.5 m
Protection Class	IPX5
Cable Length	1.9 m
Adapter Size	Ø 32 mm (1¼") Ø 38 mm (1½")
Material	Plastic (tank and pipes), Metal/ABS (pump housing)
Color	Black, Blue
Product Dimensions (L x W x H)	31 x 33 x 48 cm
Weight	320 grams (referring to filter balls, actual unit weight not specified)
Certifications	TÜV Rheinland GS certified

9. WARRANTY AND SUPPORT

Monzana products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or on the official Monzana website. In case of technical issues or questions not covered in this manual, please contact Monzana customer support or your retailer for assistance.