

MIKVATECH

Crystal Clear & Healthy Mikva Water

Filter Maintenance Manual

Model: FLTM

We thank you for the opportunity of allowing us to take part in this special mitzva of enhancing purity in Klal Yisrael. Every system used within the Bor Tevila is required to meet certain Halachic criteria and many of our products are assembled individually by hand with great detail in order to maintain the strict Halachic requirements. Although we try our utmost to have every system made at the highest quality standard, if your system is damaged in any way, please reach out to us immediately for assistance.

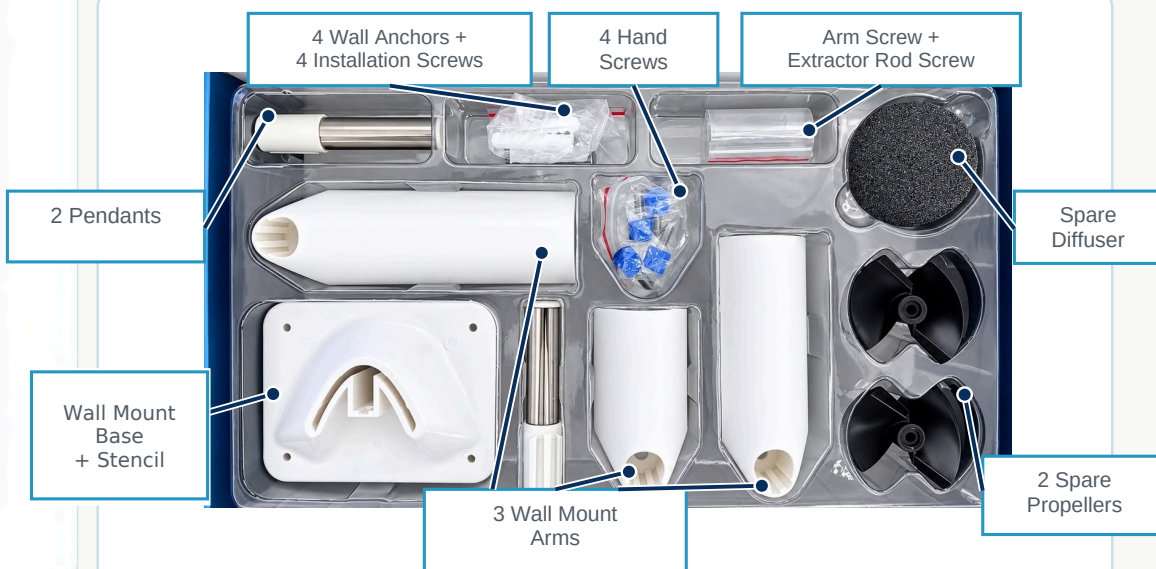
Filter Package Components

Contents included in the FLTM filter box

FILTER BODY



ACCESSORY / INSTALLATION KIT - CLOSED BOX



ACCESSORY / INSTALLATION KIT - OPEN BOX

Also Included in Filter Package



Filter Power Cable
10 m / 32 ft

Connect the control unit to the filter body. Connect by following the installation steps.



Filter Cartridge

Comes already within the filter body.



Spare Motor

Comes in a separate spare motor box.



2 Spare Bottom Nets



Spare Diffuser Kit



Cartridge Ring (PVC)

Helps hold a cleaned cartridge in shape for easier reinsertion

System Model Specs

FLTM standard model specifications

Comparison of standard FLTM models and maintenance intervals.

Specification	FLTM-10	FLTM-75	FLTM-150
After how many Tovlim the cartridge requires cleaning	10-20	50-75	100-150
Suggested Water Volume of Bor Tevila	800 US gal / 3 m ³	1,100 US gal / 4.5 m ³	1,600 US gal / 6 m ³
Flow Rate	33 GPM / 125 LPM	43 GPM / 165 LPM	65 GPM / 250 LPM
Estimated Motor Lifespan	4,000 hours	4,000 hours	4,000 hours
Maximum Daily Motor Operation	10 hours	10 hours	10 hours
Filter Motor Operating Voltage	24V	24V	24V
Watt	180W	200W	250W
Standard Dimensions	See Dimensions page	See Dimensions page	See Dimensions page

OPERATING HOURS

Recommended operating hours are not listed here. They are listed in the operation manual of the control unit (OXD / SCB), where they depend on the model and the daily tovlim. Never operate the FLTM motor more than 10 hours per day.

Maintenance at a Glance

Routine FLTM maintenance schedule

Use this page as a quick reference. Follow the complete maintenance procedures on the pages listed below.

Maintenance Schedule

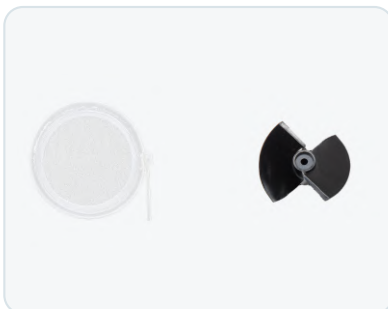


CARTRIDGE

Clean routinely

FLTM-10: every 10-20 tovlm
FLTM-75: every 50-75 tovlm
FLTM-150: every 100-150 tovlm
Double Filter System: every 300 tovlm
Replace every 6-12 months depending on usage.

See page 5 for the complete cartridge-cleaning procedure.



BOTTOM NET + PROPELLER

Check regularly

Every 5,000 tovlm OR 3 months - whichever comes first.

See page 7 for bottom-net and propeller maintenance.



DIFFUSER

Replace routinely

Replace every 12 months.

See page 8 for the diffuser-replacement procedure.

CLEAN SOONER IF NEEDED

Do not wait for the scheduled interval if the cartridge becomes visibly dirty or clogged, or if water flow is noticeably reduced.

STOP & CONTACT MIKVATECH

Stop using the filter and contact MikvaTech if the propeller or another system component is damaged or broken.

Cleaning the Cartridge

Routine cleaning instructions for the filter cartridge

Routine cartridge cleaning is the most important maintenance for the FLTM filter. A dirty cartridge restricts water flow, reduces filtration performance, and can damage the motor.

CLEAN ACCORDING TO YOUR MODEL

FLTM-10: every 10-20 tovlim
FLTM-75: every 50-75 tovlim
FLTM-150: every 100-150 tovlim
(Double Filter System: every 300 tovlim)
Or every 3 months, whichever comes first.

7 Steps to a Clean Cartridge

01 Remove the cartridge

Remove the cartridge from the Filter Body using the cartridge extractor rod, and place it on the cartridge cleaning stand as needed.

02 Rinse thoroughly

Rinse the cartridge membrane with a strong hose head - not a power washer - using hot water (40 C / 104 F, not boiling).

03 Clean between the pleats

Gently spread the pleats and clean between the folds. Rinse from top to bottom so debris drains away as you clean.

04 Prepare the soaking basin

Add hot water and pool cartridge cleaning solution. Follow the cleaner label for quantity and safety instructions.

05 Submerge the cartridge

Place the cartridge into the soaking basin and add hot water until the cartridge is completely submerged.

06 Allow it to soak

Soak according to the cleaning-solution instructions.

07 Rinse and return

Remove the cartridge, rinse thoroughly with hot water, and reinstall when clean.
If the pleats are not closing fully, use the cartridge ring to help reinsert the cartridge more easily.



Soaking Basin

Used for soaking the cartridge during cleaning.



Filter Cartridge



Cartridge Extractor Rod

Soaking Basin Package



Cartridge Ring (PVC)



Slide the cartridge ring onto the cartridge from the top down to the bottom to hold the pleats together.



Cartridge Stand

Included in Soaking Basin Package

Important Notes

- Do not allow a used cartridge to dry out completely. If it will not be reinstalled immediately, keep it in clean water.
- Cartridges are consumables and typically need replacement every 6-12 months, depending on use.
- Once every 1-2 months or after 5,000 tovlim, soak the cartridge in an appropriate descaling solution and follow the solution label.

Prepare the Filter for Service

Use before bottom net, propeller, or diffuser maintenance

Complete these preparation steps before servicing any of the three components.

01

Turn OFF & Disconnect Power

- Turn the filter OFF at the control unit.
- Open the Filter Power Cable connector. Keep both sides dry and above the waterline throughout service.
 - The Bor Tevila does not need to be drained.



OPEN CONNECTOR

02

Remove the Cartridge & Release the Filter

- Pull the cartridge straight up and out of the Filter Body.
- Slightly loosen the two wall-mount screws and release the filter from the wall mount.



RELEASE WALL MOUNT

03

Remove the Filter Body & Blue Duct

- Lift the Filter Body out of the water and lay it down carefully.
- Remove the Bottom Net to expose the Blue Duct.
- Unscrew and remove the Blue Duct.



BLUE DUCT



BLUE DUCT REMOVED

Bottom Net & Propeller Maintenance

Inspect every 5,000 tovlim or 3 months, whichever comes first

BOTTOM NET

Inspect or Replace the Bottom Net

- Inspect the Bottom Net for perforation. If it is intact, clean away visible buildup and leave it in place.

IF REPLACEMENT IS NEEDED

- Cut the existing securing zip tie and remove the old Bottom Net.
- Fit the replacement net evenly around the bottom rim.
- The replacement net comes with a zip tie already installed. Tighten it until the net is seated securely all the way around, then trim the excess tie.



CUT OLD SECURING TIE



SECURE + TRIM ZIP TIE

After completing this maintenance, continue to Reassemble the Filter on page 9.

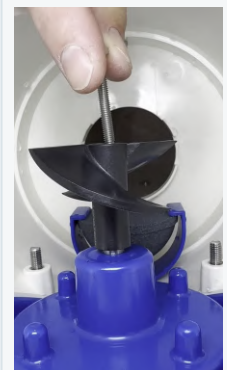
PROPELLER

Service the Propeller

- Hold the propeller while loosening the screw with a 7 mm hex wrench.
- Remove hair and dirt from the propeller and propeller shaft, and make sure the propeller is not damaged.
- Align the clean or new propeller correctly with the motor axle.
- Hold the propeller while tightening the screw back in place.



CLEAN PROPELLER + SHAFT



ALIGN + REINSTALL

After completing this maintenance, continue to Reassemble the Filter on page 9.

Diffuser Maintenance

Replace the diffuser every 18 months

01

Open the Diffuser Clamp

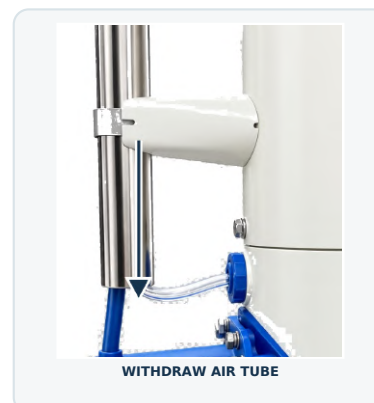
- Locate the blue Diffuser Clamp above the motor housing.
- Loosen or open the clamp so the diffuser assembly can be removed.



02

Remove the Old Diffuser Assembly

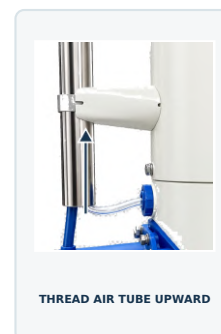
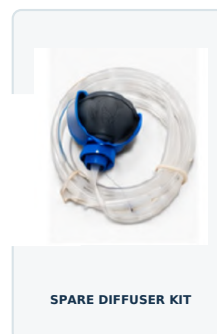
- Withdraw the full air tube from the Filter Mount Tube. Detach and keep the Oxidation Connector at the other end of the air tube.
- Remove the diffuser, connected air tube, and blue diffuser holder together from inside the Filter Body.



03

Install the Spare Diffuser Kit

- Feed the new air tube upward through the Filter Mount Tube.
- After the air tube is threaded through, reattach the retained Oxidation Connector to the end of the air tube.
- Seat the diffuser and blue holder back in their original position.
- Close and secure the Diffuser Clamp firmly.



After replacement, continue to Reassemble the Filter on page 9.

Reassemble the Filter

Complete after bottom net, propeller, or diffuser maintenance

01

Close the Bottom of the Filter

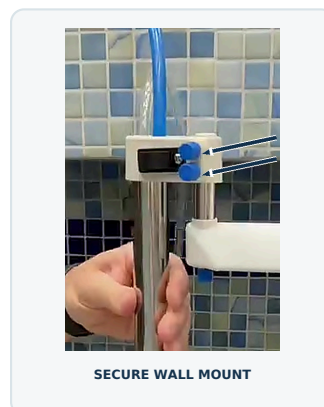
- Return the Blue Duct to its original position and make sure it is seated securely.
- Make sure the hole of the Blue Duct is pointing upward.
- Reinstall the Bottom Net and make sure it is secure all the way around.



02

Return the Filter to the Wall Mount

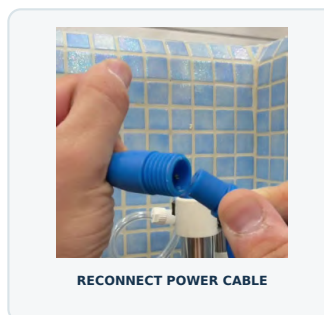
- Return the filter to the wall mount and secure it in place.
- Tighten both mounting screws so the Filter Mount is firmly fixed to the wall-mount pendant.
- Reinsert the cartridge into the Filter Body.



03

Reconnect the Filter Power Cable

- Make sure both sides of the Filter Power Cable connector are dry and aligned properly.
- Reconnect the connector and keep it dry and above the waterline.



IMPORTANT - KEEP THE CONNECTOR DRY.

Before reconnecting, make sure both sides of the Filter Power Cable connector are aligned properly. Keep both sides dry and above the waterline throughout service.

Safety Warnings

Read before installation and operation



Do not install the system without prior reading of this manual.



Do not operate the system without prior reading of this manual.



If anything in the manual is not clear to you, contact a company technician before installing and operating the system.



Do not operate the system without water in the Bor Tevila.



Do not place fingers into any part of the filter!



If any component or part of the system breaks, immediately turn off the system and contact the company for replacements.



Do not operate the filter with dirty or clogged cartridges.



Do not feed any external devices or circuits from the oxidation and filter control unit.



This system is intended for use and maintenance by trained and qualified personnel only. Children and untrained persons should not operate or service the system.



Children in the Mikva should be supervised at all times to ensure that they do not touch the device.

Support & Resources

Support for routine maintenance and service

BEFORE SERVICE OR MAINTENANCE

Read the Safety Warnings on the previous page before servicing the filter. Follow the maintenance intervals and procedures in this manual, and contact MikvaTech if anything is unclear.

Need Assistance?

If anything in this manual is not clear to you, contact a MikvaTech technician before servicing the system.

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Thank you for choosing MikvaTech.

We are honored to take part in this special mitzva
and to support the health and cleanliness of your mikva water.

For support and contact information,
please refer to the final page inside this manual.