

MIKVATECH

Crystal Clear & Healthy Mikva Water

MikvaTech Oxidation & Filtration System Manual

Model: FLT+AOP Pro

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 made *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.

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General Introduction to the System

The MikvaTech system is comprised of two distinct technologies which are combined into one unit and operate together as one comprehensive water purification system:

1) **Oxidation Technology** – Developed with the Israeli Innovation Authority and patented internationally, our technology kills bacteria, viruses (including COVID) and other pathogens while destroying the toxic by-products of chlorine/bromine. This reduces the eye, skin, respiratory irritation and uncomfortable “chlorine odor” caused by chlorine byproducts. Our technology generates oxygen radicals which are diffused into the water through a small air tube and destroy the pathogens and organic matter in the water. The contaminants are oxidized and float to the water’s surface where they are collected by the MikvaTech Fixed Filter.



The oxidation is meant primarily to provide healthier water.

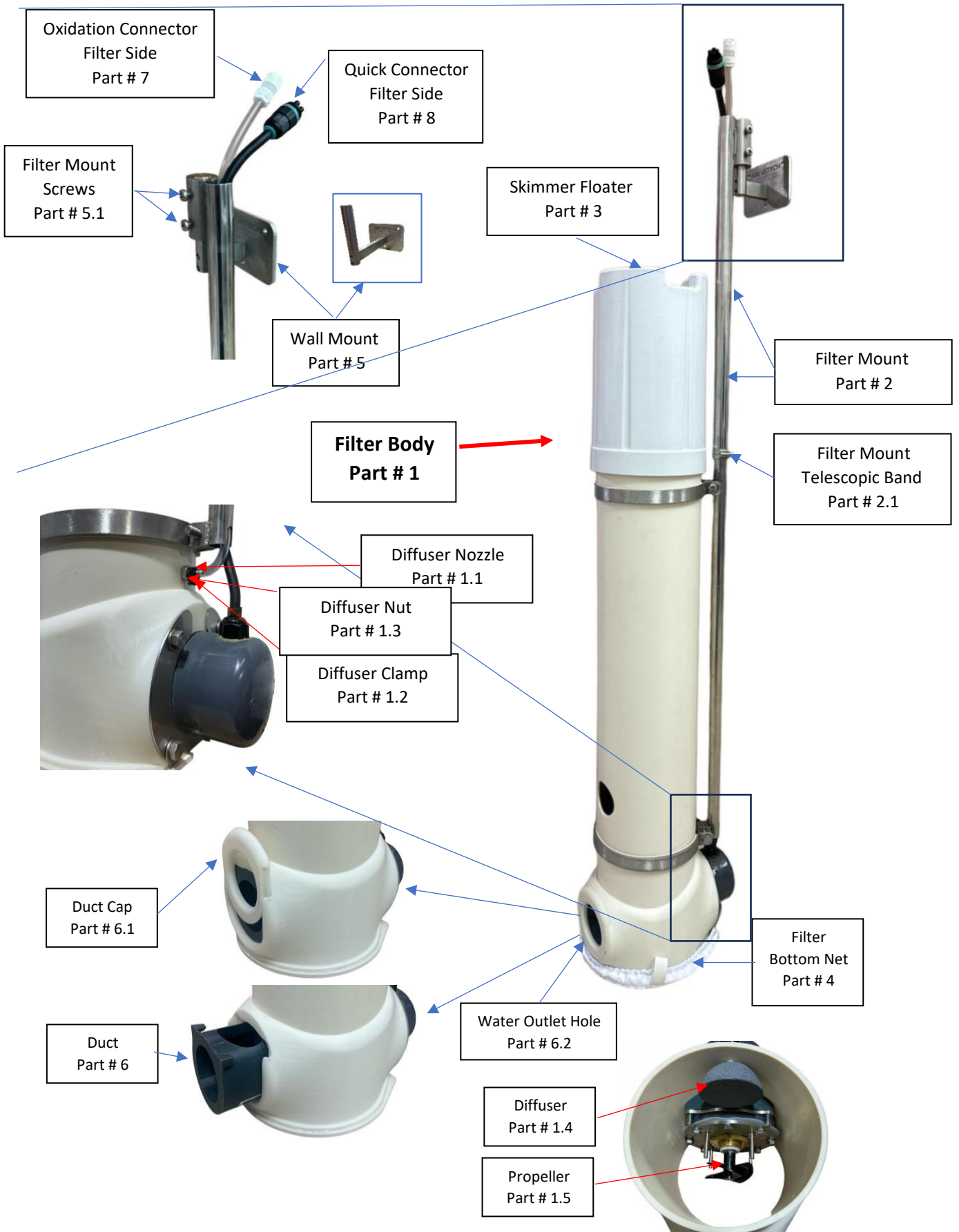
2) **MikvaTech Mehudar Filter** –Developed specifically for mikvaot, our mikva filter is superior operationally, technologically and halachically over older filters commonly installed in the bor tevila. Using ESC brushless underwater motors and thrusters, the filter does not require any carbon brush replacement. Our filters have a smaller footprint in the mikva and can be adapted into a mehudar structure with shfoferes hanod throughout the filter (they do not have the issue with shfoferes hanod in the propeller section as the older fixed filters have).



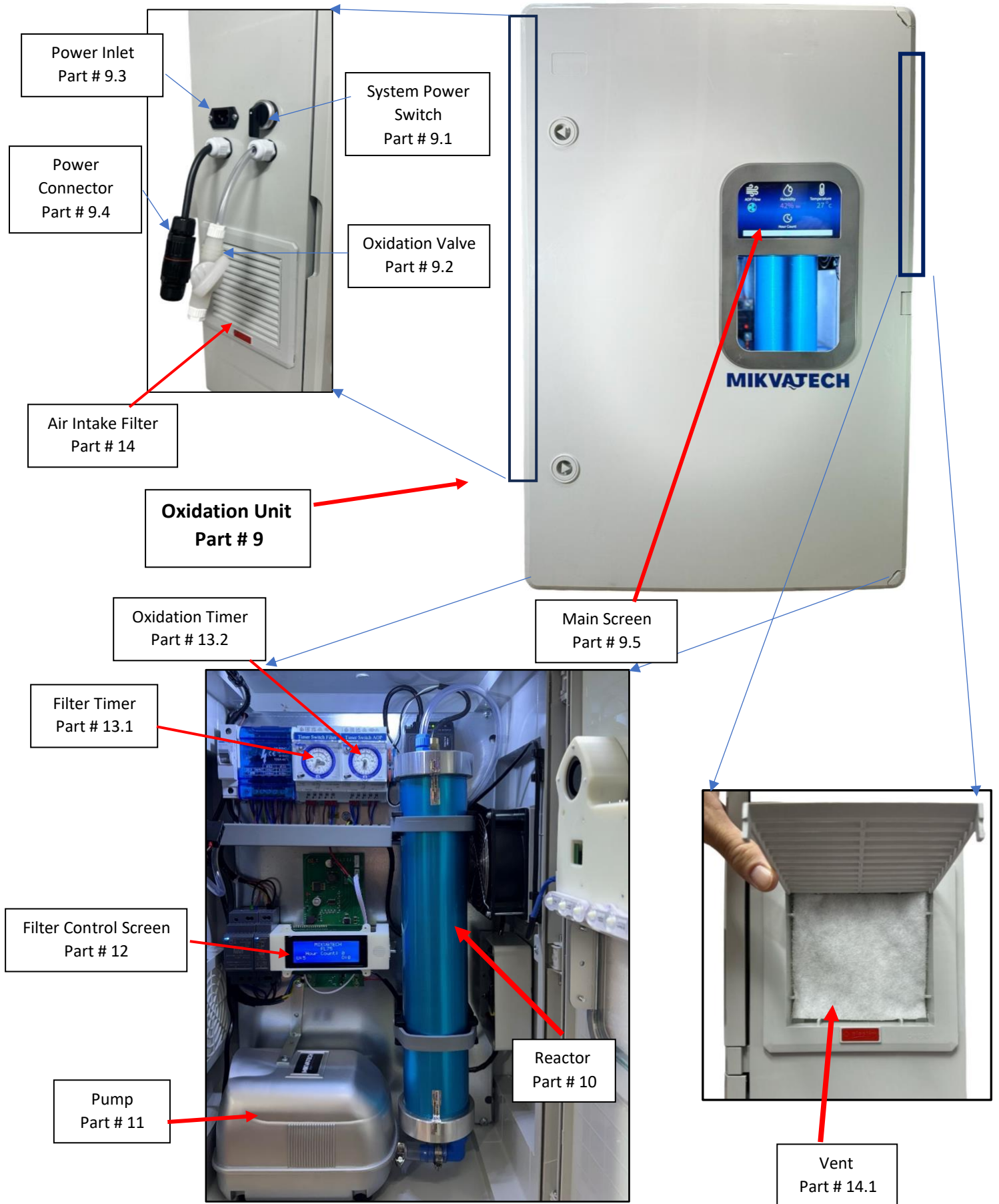
The fixed filter is meant to provide clearer water.

The oxidation technology and filter control box are incorporated into one unit which is installed in a Machine/Otzar Room. Exiting from the unit is an air tube for the oxidation and a SELV cable for powering the filter. These are threaded through a conduit (that should be prepared in advance) into the Bor Tevila room and connect into the filter body which is installed in the Bor Tevila.

Filter Components and Part Numbers



Oxidation Unit Components and Part Numbers



System Components and Part Numbers

The items in this page are not reflected to scale.



Cut section of Oxidation Air Tube
Part # 15



Cut section of Filter Power Cable
Part # 16



Cartridge Extractor Rod
Part # 17



Soaking Basin
Part # 18



2 Filter Cartridges
Part # 19



4 Wall Mounting Ears
Part # 20.1



8 Black Screws
Part # 20.2



4 Wall Anchors
Part # 20.3



4 Wall Screws
Part # 20.4



Triangle Key
Part # 20.5

Oxidation Machine Installation Kit - Part # 20



3 Wall Screws
Part # 21.1



3 Wall Anchors
Part # 20.3



2 Propellers
Part # 22.1



Propeller Screw
Part # 22.2



2 Filter Bracket Screws
Part # 22.3



Spare Diffuser
Part # 22.4



Diffuser Clamp
Part # 22.5

Filter Body Wall Mount Kit
Part # 21

AOP Wall-Fixing Stencil
Part # 20.6

Spare System Component Packet
Part # 22

System Models Specs and Maintenance Intervals

There are 4 standard sized models for mikvaot. The following is a table of the specs of each model system:

Model:	FLT-10 + AOP Pro	FLT-75 + AOP Pro	FLT-150 + AOP Pro	FLT-300 + AOP Pro
Amount of Daily Tovlim	<10	<75	<150	<300
Suggested Operating Hours per Amount of Daily Tovlim	3-4	5-6	9-10	11-12
After how many Tovlim the cartridge requires cleaning	15-30	50-75	100-150	200-300 (100-150 per filter)
Max 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	3,000 US gal / 11.5 m ³
~ Flow Rate	33 GPM / 125 LPM	43 GPM / 165 LPM	65 GPM / 250 LPM	110 GPM / 415 LPM
Estimated Motor Lifespan In Hours	2,000	2,500	3,500	4,000 (Each filter motor)
Input Voltage	Customized to 120 or 230V ~50/60Hz	Customized to 120 or 230V ~50/60Hz	Customized to 120 or 230V ~50/60Hz	Customized to 120 or 230V ~50/60Hz
Filter Motor Operating Voltage	24V	24V	24V	24V
Watt	180W	200W	250W	400W
Standard Dimensions	See diagrams on Pages 22-25			

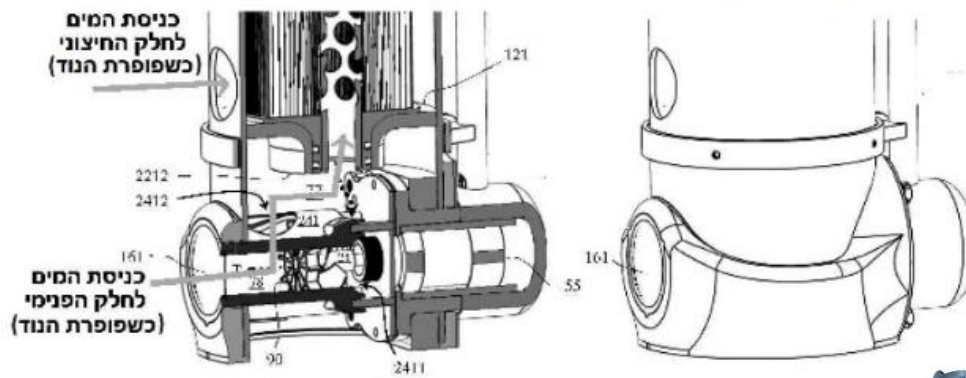
Shfoferes Hanod Halachic Modularity

When designing our mehudar filter, some rabbinical authorities stipulated that the system requires 'chibur shfoferes hanod' (חיבור שפופרת הנוד) throughout the entire filter body to ensure there is 'hashaka' (השקה) between every part of the filter and the surrounding water in the bor tevila. Utilizing computational fluid design, our team of engineers were able to introduce our proprietary design which ensures the highest halachic standard in mikvaot.

As a rule, we never pasken or offer any halachic opinion and firmly believe that this should be done solely by the rabbinical authorities of each mikva.

Patented internationally, our modular design allows each mikva's mora di'asra to decide the halachic standard they want for their mikva.

Every filter can be modularly adapted to either have a chibur shfoferes hanod throughout the filter or without. By simply replacing the duct and the duct cap, this can be easily adapted.



Using the duct with chibur shfoferes hanod:

When using the chibur shfoferes hanod duct set, the flow rate will decrease by ~30%. This is due to the flow loss through the shfoferes hanod hole. Also, when using the chibur shfoferes hanod duct set, the cap does not have a propeller protector.



This duct is meant primarily for women's mikvaot if the mora di'asra requests it.

Using the duct without chibur shfoferes hanod:

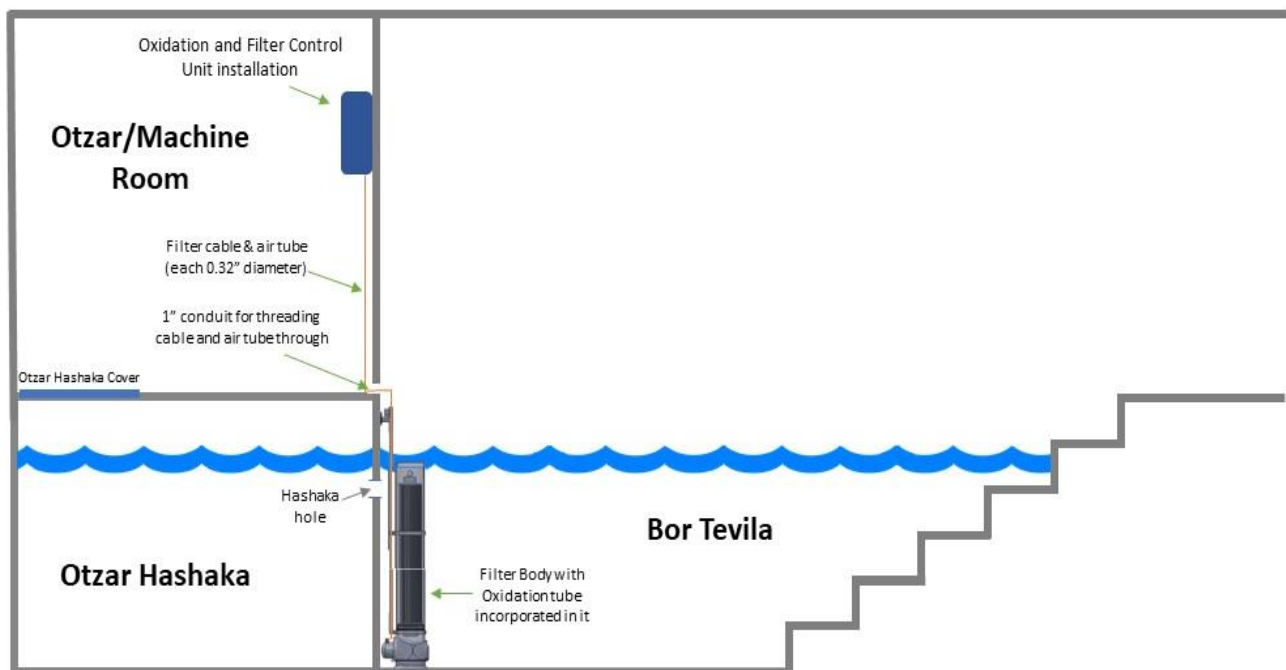
When using the duct without chibur shfoferes hanod, the flow rate will be significantly stronger. Also, when using this duct, you can use the propeller screen protector.



We strongly suggest that men's mikvaot use this duct.

Important Points Before Installation

- Please watch the Preparations video to confirm you are fully prepared for the installation and know what to avoid. To watch the video, scan the QR code here:
- Install the Filter Body (Part #1) in an easy-to-access location in the bor tevila to allow quick replacement of the cartridges.
- The Oxidation Unit (Part #9) should be installed in a separate room to avoid moisture and humidity, and near a standard electrical outlet.
- The Filter Body and Oxidation Unit are connected via a power cable and air tube. Ensure there is a 1" route/track/conduit starting **above the water line** to connect the two machines.



Suggested Tools for Installation

- Drill
- Drill head size 5/16" / 8mm
- Electric screwdriver + Philips PH1 bit head
- Hammer
- Utility knife
- Marker
- If no conduit was prepared in advance, a Drill head size 1" / 25mm should be used for creating a pathway to threading the power cable and oxidation tube through the walls.

Installing The System in 15 Steps

1. Connect the Wall Mounting Ears (Part #20.1) to the back of the Oxidation Unit (Part #9) using the 8 black screws (Part #20.2) in the Oxidation Machine Installation Kit (Part #20) bag.
2. Position the AOP Wall-Fixing Stencil (Part #20.6) on the wall at the location you plan to install the unit (per the instructions on the previous page). Drill size 5/16" (8) holes through the designated stencil markings.
3. Mount the Oxidation Unit on the wall using the supplied wall anchors (Part #20.3) and screws (Part #20.4).
4. Thread the Power Cable (Part #16) and the Oxidation Air Tube (Part #15) through the conduit/route from the bor tevila to the Oxidation Unit.
Important note: The supplied roll of power cable comes with a quick connector already connected to one side of the cable for easy connection to the filter body.
Pass the roll of cable and air tube from the bor tevila to the oxidation unit, leaving the connector side in the bor tevila.
5. Disconnect the Filter Wall Mount (Part #5) from the Filter Mount (Part #2) by slightly loosening the 2 Filter Mount Screws (Part #5.1).
6. Use the Wall Mount (Part #5) to mark the locations for drilling on the wall of the bor tevila in the location you plan on installing the Filter Body. It is recommended halachically to install the Wall Mount above the water line.
7. Drill size 5/16" (8) holes into the wall, and insert the wall anchors (Part #20.3) from the Filter Body Wall Mount Kit (Part #21) bag.
8. Fix the Wall Mount on the wall facing up using the supplied stainless-steel screws (Part #21.1) in the Filter Body Wall Mount Kit (Part #21) bag.
9. Unscrew the Filter Mount Telescopic Band (Part #2.1) to loosen it from the Filter Mount (Part #2). Adjust the height of the Filter Mount so that it can be threaded onto the Wall Mount, while the bottom of the filter body is sitting completely flat the floor.
10. Fasten the Filter Mount (Part #2) onto the Wall Mount (Part #5) by fastening the 2 Filter Mount Screws (Part #5.1). Make sure it is fastened while the top of the Filter Mount and the Wall Mount are aligned.

11. Unscrew the cap of the Oxidation Connector Filter Side (Part #7).

Connect the air tube to the connector and screw shut. When closing, don't screw it too tight, this will make it hard to open in the future.



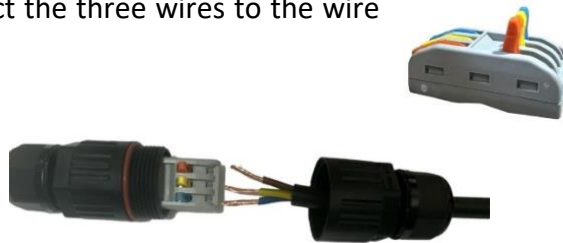
12. Connect the quick connector attached to the Power Cable (Part #16) to the Quick Connector Filter Side (Part #8). Make sure the pins and sockets are aligned. When closing, don't screw it too tight, this will make it hard to open in the future.



13. Unscrew the Power Connector (Part #9.4).

The Power Cable (Part #16) will have three open wires at its end. Lift the pins of the wire clamp inside the Power Connector to a complete 90-degree angle. Then connect the three wires to the wire clamp by connecting:

- a. Brown → Orange
- b. Yellow → Yellow
- c. Blue → Blue



After connecting the wires, close the pins. Ensure the wires are fully connected and the pins are closed tightly. Re-screw the Power Connector so the wires are connected within.

14. Unscrew the cap of the disconnected side of the Oxidation Valve (Part #9.2). Before connecting, cut the excess Oxidation Air Tube (Part #15) to maximize efficiency.

Connect the air tube to the Oxidation Valve and screw shut.

15. Connect a C14 power cable to the wall outlet and to the Power Inlet (Part #9.3) on the machine.



Fill the bor tevila, turn on the system, and enjoy healthy & clean mikva water!



MikvaTech System Operation and Maintenance

Here you can find the basic steps to operating the MikvaTech Water Purification System. You can also scan this QR code to watch the video:



Operating and Using the System

1. Place a clean cartridge (Part #19) into the filter body and the Skimmer Floater (Part #3) on top of the filter body.
2. Before turning on the filter, make sure the bor tevila is filled with water and the water level is above the filter body, so that the Skimmer Floater begins to float.
3. Ensure the Water Outlet Hole (Part #6.2) is aimed towards the center of the bor tevila.
4. For systems using 110v there is an analog timer inside the Oxidation Unit. Set this timer like setting any other Shabbos clock, or scan this QR for an instructions video:
For systems using 220v there is a digital timer. Set the timers using the manual on Page 19.
5. Turn on the system using the System Power Switch (Part #9.1).
6. Make sure there is an even flow of water through the top of the filter and out of the bottom. You should see oxidation bubbles exiting the bottom of the filter towards the center of the bor tevila.
Please note that after every 10 minutes of operation, the oxidation will shut off for 5 minutes to ensure maximum filtration efficiency. During this time, you will not see bubbles in the water.
7. Clean your cartridge periodically using the table and instructions on Page 14 or by watching the video using the QR code here:
8. Maintain your propeller periodically using the instructions on Page 15.
9. Test the pH and disinfectant levels using the instructions on Page 17.



Notice! Incorrect operation or maintenance of the system as per the instructions detailed in this section and the manual entirety, will void the granted warranty.

Oxidation Maintenance

Reactor Maintenance:

In your Oxidation Unit, the most important component is the Reactor. The Reactor is a unique development of MikvaTech, and its role is to kill bacteria & pathogens, and reduce the toxic byproducts of chlorine.

The Reactor's efficiency decreases over time, as does its ability to treat bacteria. Replacing it in time will ensure that it functions optimally, and will help prevent malfunctions.

We recommended replacing the Reactor every 18 months or 4000 hours of operation – whichever comes first. The operation hour count will appear on the front Main Screen (Part #9.5). To order a new Reactor, please reach out to our MikvaTech Customer Support team. To send a Whatsapp, please scan the QR code below.



For your health, please do not open the Reactor or disconnect any connectors.

Ventilation Maintenance:

The Air Intake Filter (Part #14) and the Vent (Part #14.1) should be dusted/washed to prevent dust build-up which will limit the ventilation of the unit.

MikvaTech Customer Support



Cleaning Your Cartridge

Cleaning the Filter Cartridge is extremely important for the functionality of the filter. A dirty cartridge will not allow the water to flow through the filter and the mikva water will not be filtered. This is the most important maintenance that is required for this system.

7 Steps to a Clean Cartridge:

1. Remove the cartridge from the Filter Body by using the Cartridge Extractor Rod (Part #17) supplied with the system.
2. Thoroughly wash down the cartridge membrane with a strong hose head, with hot water (40C / 104F, not boiling). Pay attention to washing between the membrane folds until there is no large discernable dirt.
3. Gently open/spread the membrane for easier cleaning between the folds. Wash the membrane from top to bottom and in between every fold. This allows the dirt to drain down as you clean it.
4. Only after the cartridge is clean from large dirt and hair should it be soaked in the Soaking Basin (Part #18).
5. Pour 2.5oz / 70ml of detergent into the Soaking Basin, and fill slightly with hot water to dissolve the detergent.
6. Place the cartridge into the Soaking Basin, and fill with more hot water until the cartridge is completely submerged.
7. Allow it to soak for at least 12 hours, then remove the cartridge from the Soaking Basin and wash down thoroughly with hot water.

Must-Knows:

- After the first use of the cartridge in the filter, it is important to never allow the cartridge to dry completely. Even after cleaning the cartridge, it should be placed in the soaking basin in clean water in order for it to never dry out.
- Once every 1-2 months or after 5,000 tovim, soak the cartridge in a pool cartridge cleaning solution (instead of laundry detergent). This can be found on Amazon. Refer to the safety label of the solution you choose to use.
- Like all polyester, over time, the membrane will wear out. We recommend purchasing new cartridges within 6-12 months.

A few tips:

- Wash the cartridge immediately after the tevila hours, to prevent the growth of bacteria on the cartridge and maintain the filter motor.
- Use a strong hose to wash down the membrane. Do not use extremely high pressure as this can damage the cartridge. Some people find it easier to wash it down with a specialized hose head such as the AquaComb which can be purchased on Amazon.
- We recommend designating an area with good drainage for cleaning the cartridge so that the dirty water can drain easily.

Cleaning Your Motor Propeller

The motor propeller should be cleaned every 5,000 tovlim.

If the motor propeller is not cleaned on a consistent basis, hair can accumulate on the propeller. This can cause the propeller fins to break and will reduce the life expectancy of the motor.

Here you can find a step-by-step guide to cleaning/replacing your propeller. You can also watch the video by scanning this QR code:



14 Steps to a Clean Propeller:

1. Turn off the filter using the System Power Switch (Part #9.1) on the Oxidation Unit.
2. Open the Filter Quick Connector (Part #8) by turning the knob where the arrow is pointing to open.
Make sure both sides of the connector stay dry and out of the water at all times.
3. Disconnect the air tube by opening the Oxidation Connector Filter Side (Part #7).
4. Disconnect the Filter Wall Mount (Part #5) from the Filter Mount (Part #2) by slightly loosening the 2 Filter Mount Screws (Part #5.1).
5. Remove the Skimmer Floater (Part #3) and the cartridge from inside the filter.
6. Remove the Filter Body from the water, and lay it down gently on the floor.
7. Remove the Filter Bottom Net (Part #4), slide out the Duct Cap (Part #6.1), and pull out the Duct (Part #6).
8. Use a Phillips-head screwdriver to disconnect the Propeller (Part #1.5) from the motor.
9. Remove hair and dirt from the propeller, and make sure it is not damaged.
10. Remove hair and dirt from the motor axis.
11. Place the propeller back onto the axis so that it is aligned, and screw it back in.
12. Return the Duct, Duct Cap, Bottom Net, Cartridge and Skimmer Floater to their place on/in the filter.
13. Reconnect the filter to the Wall Mount and tighten the screws.
14. Close the Filter Quick Connector by turning it in the CLOSE direction 3 full rotations.

Replacing the Diffuser

The oxidation is diffused into the water using a diffuser. Over time, the diffuser will become clogged and discolored and will require replacement. We recommend replacing the diffuser every 18 months. A Spare Diffuser (Part #22.4) is supplied with the system.

Recommended Tools:

- 13mm Key Wrench
- Philips-head screwdriver
- Scissors
- Pliers

16 Steps to a replacing your Diffuser:

1. Turn off the filter using the System Power Switch (Part #9.1) on the Oxidation Unit.
2. Open the Filter Quick Connector (Part #8) by turning the knob where the arrow is pointing to open.
Make sure both sides of the connector stay dry and out of the water at all times.
3. Disconnect the air tube by opening the Oxidation Connector Filter Side (Part #7).
4. Disconnect the Filter Wall Mount (Part #5) from the Filter Mount (Part #2) by slightly loosening the 2 Filter Mount Screws (Part #5.1).
5. Remove the Skimmer Floater (Part #3) and the cartridge from inside the filter.
6. Remove the Filter Body from the water, and lay it down gently on the floor.
7. Remove the Filter Bottom Net (Part #4), slide out the Duct Cap (Part #6.1), and pull out the Duct (Part #6).
8. Use a Phillips-head screwdriver to disconnect the Propeller (Part #1.5) from the motor.
9. Use the scissors to cut the oxidation air tube connected to the Diffuser Nozzle (Part #1.1). Keep the cut as close to the nozzle as possible.
10. Use the scissors to cut/break the Diffuser Clamp (Part #1.2).
11. Remove the remaining air tube attached to the Diffuser Nozzle.
12. Use the Key Wrench to unscrew the Diffuser Nut (Part #1.3).
13. From inside the Filter, remove the Diffuser (Part #1.4).
14. Pull out extra air tube and thread the Spare Diffuser Clamp (Part #22.5) onto it.
15. Insert the Spare Diffuser (Part #22.4) into the diffuser hole. (Make sure to remove the plastic protecting cap from the Diffuser Nozzle).
16. Connect the air tube to the Diffuser Nozzle and clamp the Diffuser Clamp onto it.

Checking Chlorine and pH with Test Strips

Checking your Chlorine and pH levels is a necessary part of maintaining clean and healthy mikva water. According to the Israeli Ministry of Health regulation for mikvaot, the water in the mikva should have:

- **pH level of between 7 - 8**
- **Free Chlorine level of between 1.5 – 3 ppm**

There are various methods of checking these parameters in the water and in the following instructions we will examine a quick and easy method of using test strips.

The strip has 3 square pads:

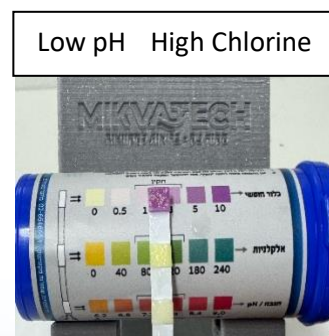
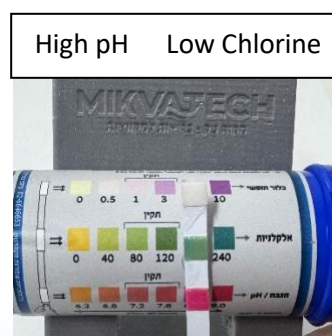
1. The top square: Free Chlorine
2. The middle square: Alkalinity
3. The bottom square: pH (acidity)

We will only be examining the Free Chlorine and pH testing (the top and bottom squares).

The colors of the square pads change according to the level of the parameter in the water.

Instructions:

1. With your hand dry, open the test strip bottle, remove a strip, hold the strip from the end that does not have square pads, and close the test strip bottle.
2. Dip the test strip 5-6 inches (12-16 cm) in the water for 2 seconds.
3. Remove the test strip from the water with the square pads facing upwards
4. Gently shake the test strip once in order to remove excess water from the test strip.
5. Immediately hold the test strip near the corresponding square pads on the bottle to see what the parameter levels are in the water.



Error Handling

The following errors will be accompanied by beeping and a stoppage of system operation. Please follow the guide below on how to handle these errors.

Error Message - "Underload"/"Overload":

The system uses a current control that will stop the operation of the system if the current isn't correct. When this happens, you will hear beeping and see on the Filter Control Screen (Part #12) one of 2 error messages – Underload or Overload.

Please check the following:

1. There is water in the bor tevila.
2. The Quick Connector is connected properly, with the pins aligned to the sockets.
3. The Oxidation Power Connector is connected properly, per step 13 on Page X (Installation).
4. Try reducing the oxidation airflow by slightly turning the Oxidation Valve towards the closed side. Make sure it isn't completely closed.
5. The Propeller (Part #1.5) and Diffuser (Part #1.4) are intact. To check, follow the steps on Page X (Diffuser).



UNDERLOAD
CHECK PROPELLER
AND WATER LEVEL
U: 1 0:0



OVERLOAD
CHECK PROPELLER
Hour Count: 0
U: 0 0:1



OPEN

CLOSED

Reactor Beeping:

This will occur when the Reactor can't turn on. This will generally happen after 4,000 hours of operation, or 18 months, as the Reactor "dies". Please contact a MikvaTech Service Operator to acquire a new one.

For any other malfunctions or errors, please contact a MikvaTech Service Operator. To send a Whatsapp, you can scan this QR Code:



Digital Timer Manual (for 220v)

Basic safety instructions

WARNING

Danger of death through electric shock or fire!

➤ Installation should only be carried out by professional electrician.

- The device is designed for installation on DIN top hat rails (in accordance with EN 60715)
- Corresponds to type 1 BSTU in accordance with IEC/EN 60730-2-7

Designated use

- The time switch is used for lighting, ventilation, flushing etc. applications
- Only for use in closed, dry rooms.
- Do not use on safety devices, e.g. escape route doors, fire safety equipment etc.

Disposal

Dispose of device in environmentalv sound manner

Screen and keys

Labels for the display:

- Set time
- Set switching times
- Storage location
- Channel number
- Days of the week
- Channel status
ON = On
OFF = Off
- Set the date
- Set summer/winter time
- Display permanent switching
- Display time
- 2 dots flash: Nominal voltage OK
- 3 dots flash: Power reserve operation

Buttons and their functions:

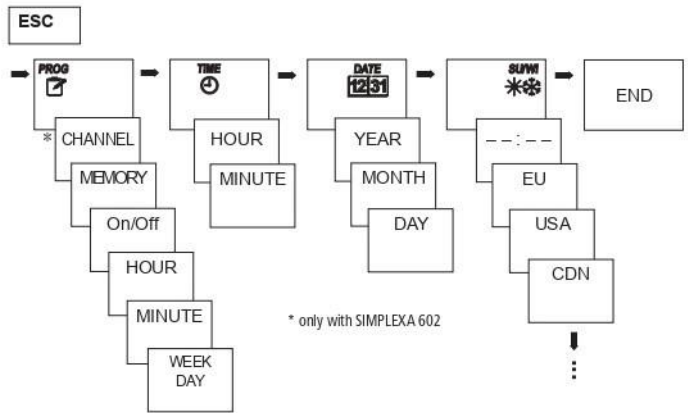
- ESC**: Activate screen, Open menu, Cancel menu, Leave menu
- OK**: Store selection, Confirm selection
- 1, 2**: Navigation buttons

RESET/complete deletion

- Press reset button.

! All data is deleted after a reset and the device is returned to factory settings (not preset).

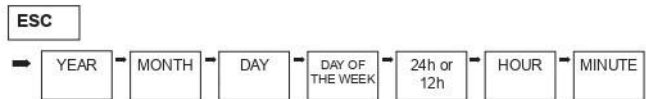
Overview of menu selection



Initial start-up

The device is not preset. Date, day of the week (1 ... 7), time format (12h AM/PM or 24 h) and time must be set.

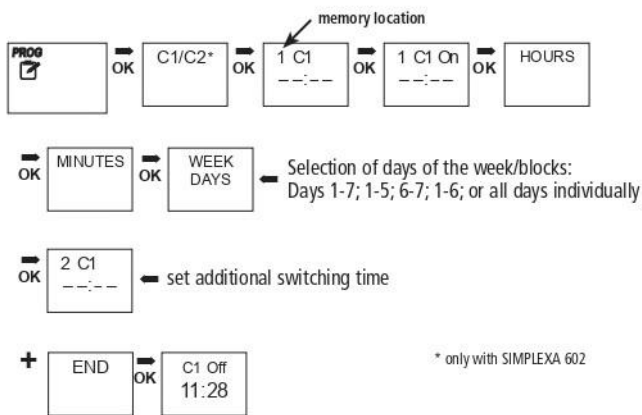
- Press any button and follow on-screen instructions. (see fig.).



Select digit for day of the week: Presetting e.g. Monday = 1; depending on country: Sunday = 1, Saturday = 1

Switching times

1 Set switching times



There are 28 available memory locations per channel.

2 Request switching times


- Request switching times by using + or – buttons.

3 Change /delete switching times

Change switching times:

- Confirm stored switching time by pressing the **OK** button.
- Press **OK** button again once, use + or – button to change hour/minute.
- Confirm with **OK** button.

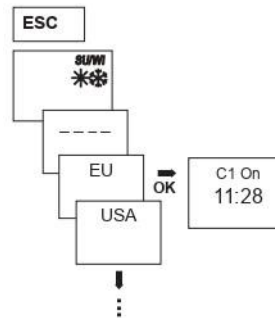
Delete switching time:

- Confirm stored switching time by pressing the **OK** button.
- Press + or – button; it appears 
- Confirm with **OK** button.

Summer/winter time

1 Set summer/winter time

- Press **ESC** button and using the + or – buttons select **SU/WI** menu.
- Press **OK** button and using the + or – buttons select the relevant rule (see table).



Summer/winter time rules	
----	no rule
EU	rule for the EU
USA	USA
CDN	Canada
IL	Israel
NZ	New Zealand
IRAN	Iran
FREE	free rule
DATE	fixed date

2 Set free rule (FREE)

1. Change to summer time


- Enter month, week in month (5 = last week), day of the week, changeover time consecutively

2. Change to winter time

- Enter month, week in month

Set manual permanent switching

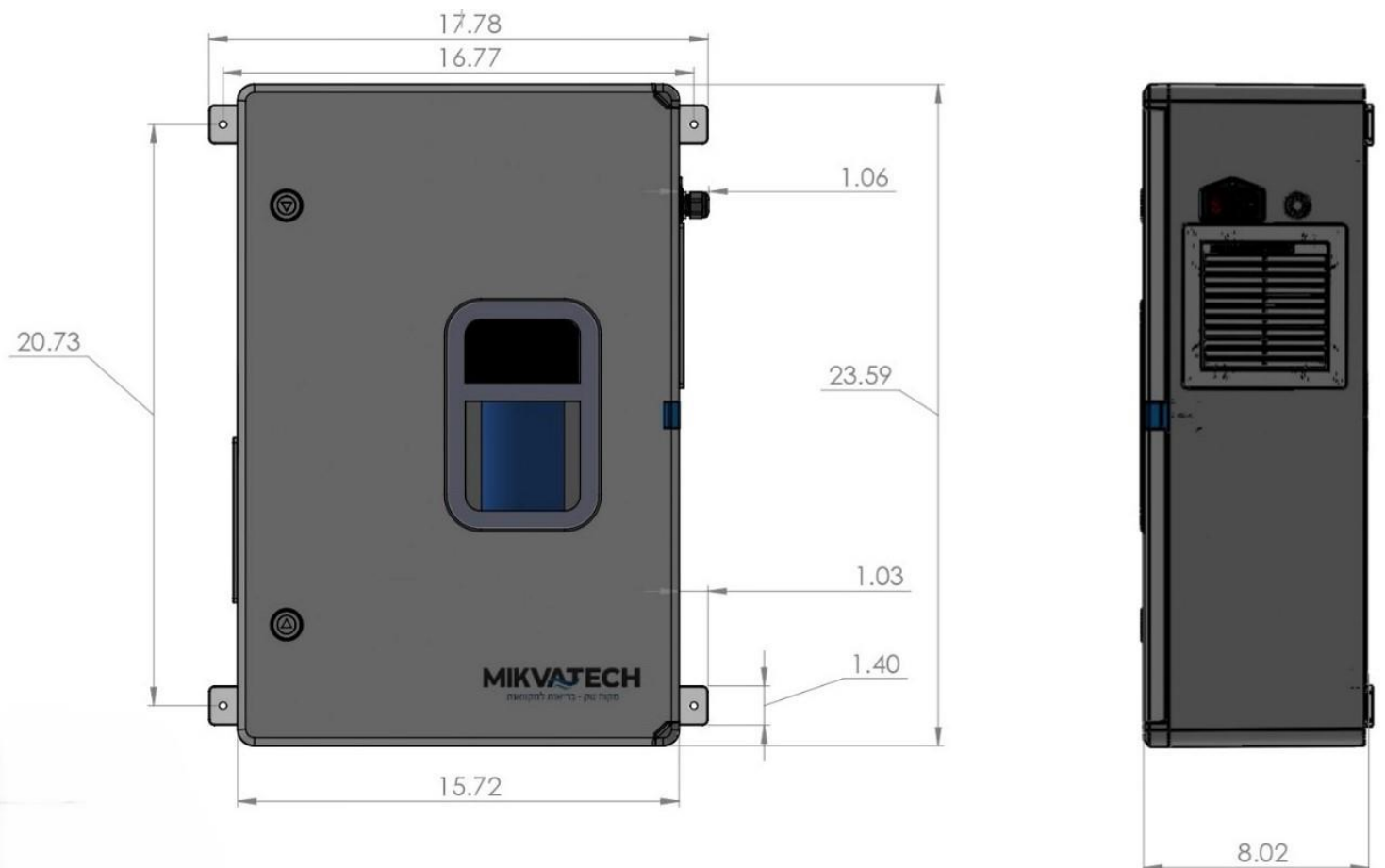
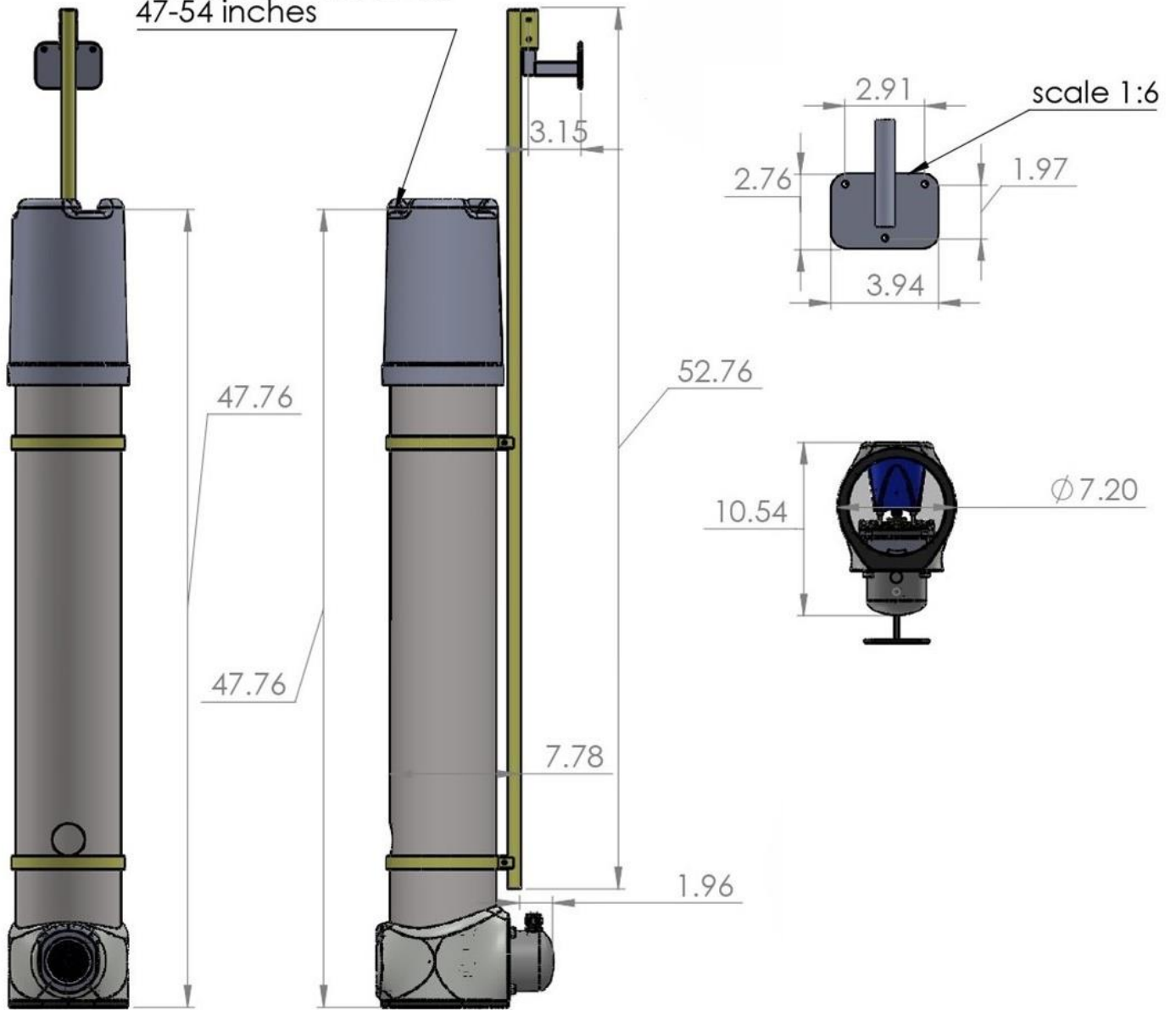
The permanent switching (**PERMANENT ON**, **PERMANENT OFF**) can be selected for each channel via direct operation of buttons.

- **SIMPLEXA 601**: Press + and – buttons simultaneously ( appears)
- SIMPLEXA 602**: for C1: Press + and – buttons
for C2: Press + and **OK** buttons
- Press button continually until the required status is displayed (**PERMANENT ON**, **PERMANENT OFF**, no permanent switching).

Safety Warnings

- 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 by trained and qualified personnel only. It is not suitable for operation by individuals with physical or mental disabilities, children, or those without proper training and experience.
- Children in the mikva should be supervised at all times to ensure that they do not touch the device.

Standard water level:
47-54 inches



Standard water level:
119-138 cm

