

Instructions for use



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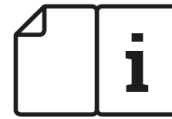
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W&H symbols

Symbols displayed on the product and/or used in this manual:



WARNING! / CAUTION!
(in the event of risk of injury to persons /
in the event of risk of damage to property)



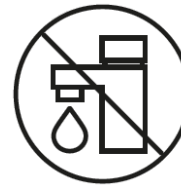
Consult the instructions for use



High voltage. Do not open or
tamper with the equipment.
Live electric parts inside the unit.



Do not dispose of
with normal waste



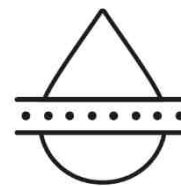
Don't drink the water
produced by Osmo



Filter cartridge
Lock/Unlock position



Resin filter
cartridge



Carbon filter
cartridge

Warranty

It is forbidden to copy, alter or translate this manual without prior written authorization from the manufacturer.

The information contained in this manual may be changed without prior notice.

The manufacturer declines responsibility for errors in the manual, for accidental damage or caused by the supply, performances or use of this equipment. This product is guaranteed against material and manufacturing defects for twelve months from the date of purchase of the product according to the clauses of the warranty certificate provided.

For any suggestions or remarks please send an email to office.sterilization@wh.com.

In the event of a fault occurring in the unit during the warranty period, the firm W&H may decide whether to repair or replace the product found to be defective.

The latest version of these Instructions for Use is always available at www.wh.com.

WORKS/REPAIRS DURING THE WARRANTY PERIOD

For work or repairs under warranty the customer must contact the supplier.

See the warranty certificate, delivered with every Osmo, for the warranty period and exclusions.

WARRANTY RESTRICTIONS

The warranty covers replacement or repair of the components recognized as being unsuitable due to manufacturing defects, inclusive of the necessary labor.

The above is not applicable to faults caused by:

- incorrect use of the equipment;
- improper or inadequate maintenance or use by the customer;
- unauthorized changes made to the equipment;
- the use of the product in environmental conditions other than those specified in this manual;
- non-compliance with the instructions included in this manual;
- inadequate preparation of the installation area / incorrect installation of the equipment.

No compensation shall be payable during the period of time required for replacement or repair of the unit.

Replacement shall in any case be decided solely by the manufacturer and only in the event of the unit being ascertained as wholly unusable and impossible to repair.



SAFETY

In order to retain the original safety features of the product, the customer must not replace any part of it or nor make unauthorized changes.

The symbols of Warning/Caution draws attention to one or more procedures whose partial or complete non-observance may cause partial or total damage to the product or personal injury. Before carrying out the procedures indicated after this symbol, make sure the conditions specified have been fully understood and observed.

1. General information and Safety advice

INTRODUCTION

Osmosis is a natural phenomenon for which a solution poor in mineral salts passes through a semi-permeable membrane then it is diluted in another one that has a greater saline concentration.

By counter pressure, the process is inverted and is called reverse osmosis: in fact, by pushing a solution with a high concentration of mineral salts against a special membrane, processed water is obtained.

Due to its structure and properties, the membrane almost completely retains dissolved salts, heavy metals, pollutant elements, bacteria and viruses letting the water pass in all its genuine purity.

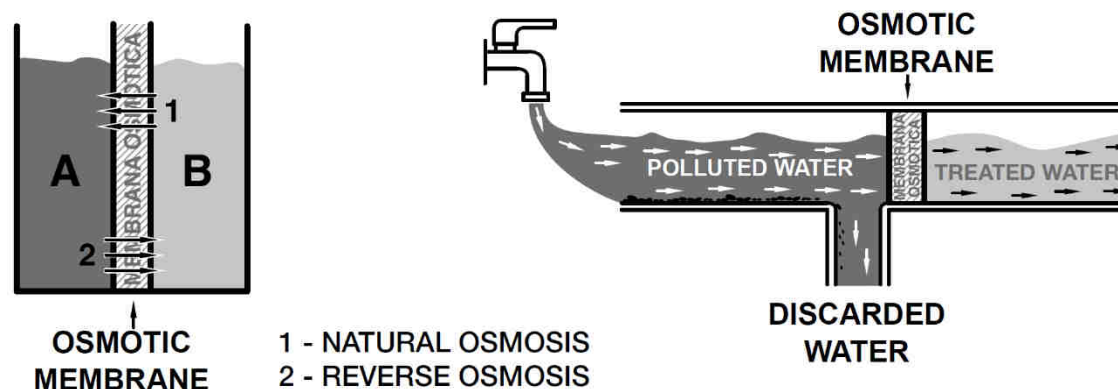
Reverse osmosis is therefore the safest and most widespread purification system around the world; the advantages, other than the basic reliability of the system, are:

- simple assembly;
- very low operating costs;
- total absence of chemical products.

The Osmo can eliminate from water all impurities and harmful pollutants.

Treated water is the ideal solution for professional use and delivery since the exclusive filtration system forms a safety barrier against different pollutants in groundwater.

The reverse osmosis purification system Osmo is made with the highest quality components and was designed and configured for professional use.



All W&H equipment are totally reliable and every component has been designed and manufactured to ensure top performances at all times. This instruction manual is an essential part of the W&H equipment. It contains important information about installation and operation security, maintenance and use. This instruction manual should always accompany the W&H equipment, an erroneous installation or use may cause damage to people, animals or property.

W&H may not be considered responsible for damage caused by improper use, maintenance or installation.

General information and Safety advice

Note: *if the Osmo demineralizer is used to supply sterilizers with demineralized water, it is imperative to monitor the water quality. If the supplied sterilizers do not feature a water conductivity sensor to monitor the water quality, we recommend using the manual water conductivity meter **Primo 5**.*

Electrical connection

Before plugging in the unit to the power socket, check that the voltage shown on the rating plate, corresponds to the one of your work place.

Earthing of the equipment is compulsory by law. Any deliberate cutting of the earth wire inside or outside the unit or removal of the earth terminal from the plug is forbidden in that the unit becomes hazardous.

The manufacturer declines all responsibility in respect to persons or things arising from failure to observe this rule. The electrical safety of this unit is only guaranteed when it is correctly connected to an effective earthing system, as provided by current electrical safety laws.

If you do not have an electrical system with proper earthing, do not connect the unit to the socket and consult a specialist electrician as soon as possible.



This equipment requires earthing.



BEFORE STARTING UP THE EQUIPMENT

Check that the equipment has not been damaged. Do not use products which have been damaged during transport; if in doubt consult the retailer or the manufacturer directly.

Use of the Osmo, as with any other equipment connected to an electrical system, involves compliance with certain fundamental safety rules:

- do not touch the reverse osmosis purifying system with wet or damp hands or feet;
- do not (dis)connect the plug to/from the socket with wet hands;
- do not pull the power cord to disconnect the plug from the power outlet;
- do not leave the reverse osmosis purifying system exposed to atmospheric agents;
- do not allow the reverse osmosis purifying system to be used by children without supervision;
- before carrying out any cleaning or maintenance operation, disconnect the reverse osmosis purifying system from the electricity mains by taking out the plug from the power socket;
- in the event of a fault or poor operation, switch off the Osmo and do not tamper with it. Contact an authorized technician for any intervention; if parts of the reverse osmosis purifying system are replaced, for maintenance or due to a fault, by an unauthorized technician, make sure the parts comply with the legislation in force.

General information and Safety advice



- The equipment should be used in compliance with the procedures described in the manual and never for purposes other than those detailed in the manual;
- The user is responsible for installing, operating and servicing the equipment in accordance with the instructions listed in this manual;
- Only use genuine manufacturer spare parts dedicated for this product;
- **Do not drink** the water produced by Osmo;
- **Do not block or crush** the inlet or outlet pipes of the equipment or the sterilizer;
- If the **water dispenser is not used** (manual filling) we recommend **closing the spiral tube's connecting tap**;
- If the equipment is not operated according to the instructions in this manual or is not properly maintained, the manufacturer cannot be held responsible for any fault, damage or malfunctioning of the equipment;
- If the tap water shows high quantities of turbidity, chlorine, iron and manganese, silicon, or a level of TDS (Total Dissolved Solids) above 2,000 ppm, the effectiveness and above all the life-span of the osmotic membrane will be significantly affected;
- Do not use the device with water over 20 °C;
- If the device is not used continuously it may emanate unpleasant smells.

This manual is an integral part of the product and must be kept close to the equipment for easy and quick reference. The equipment is to be used only for the purpose for which it is designed.

Osmo: equipment designed for the demineralization of tap water.

2. Storage

The packaged equipment must be stored in a dry place (without condensate), protected against bad weather.

The permitted temperature is $+5\text{ °C} \div 35\text{ °C}$.

Even if carefully packaged and protected, the system must be considered and handled as fragile material.

On receipt, check the external conditions of the package and the equipment in it.

If damaged, inform the carrier and the supplier immediately.

3. Contents of the packaging

General notes on delivery

Upon delivery of the equipment, check the condition of the package and keep it in case of future needs.

Open the package and check that:

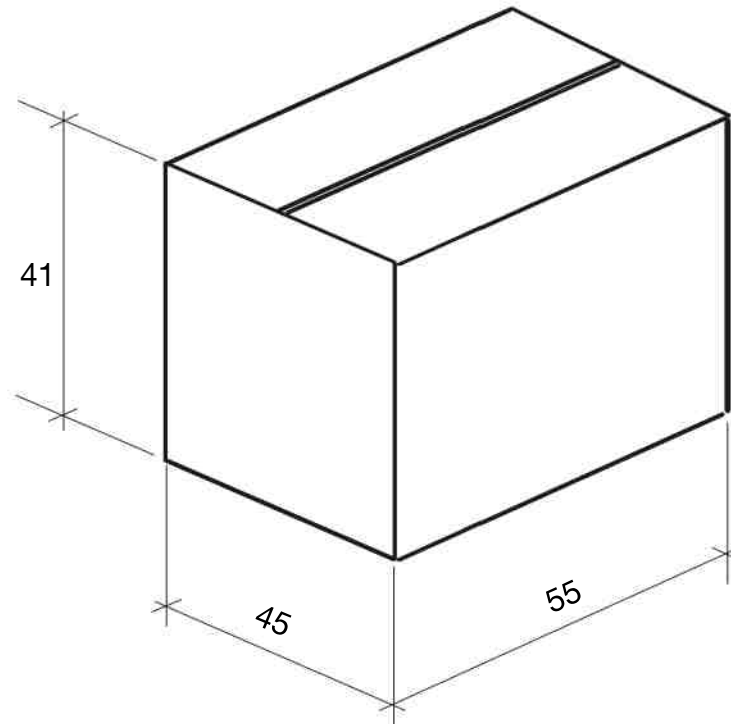
- the contents correspond to the delivery note and to the list in the next page;
- there is no evidence of any damage.

In the event of damage or missing items, inform the carrier and the supplier immediately.

Package size and weight

Gross weight: 15,5 kg

Dimensions (cm):



Contents of the packaging



1. Complete osmotic subset composed of: 2 filter cartridges (resin and carbon), 1 osmotic membrane, 1 pump, 1 one-way valve, 1 pressure switch, electric system and a variety of internal and external connecting tubes (support bracket kit - optional);
2. 7-litre storage tank
3. Water Block® valve with filter and setting key;
4. Opening/closing tool for osmotic vessel cap;
5. Dowels and screws for fixing the system to a wall;
6. No.2 quick-connector fittings $\frac{3}{4}$ " for tube \varnothing 8 mm;
7. Inlet and outlet tubes;
8. Water dispenser kit;
9. Tank water tap;
10. Warranty certificate, CE declaration of conformity and quick start manual (not shown).

4. Conditions of use and period of use

Reverse osmosis system processing essentially consists in an adjustable reduction of fixed residue in treated water.



This equipment is for the treatment of drinking water only. Input water must be drinkable according to the National and local rules and standards in force in the Country of installation.

This equipment requires regular maintenance to guarantee the purity level of the output water within the limits declared by the manufacturer.

Summary maintenance table		
Description	Frequency	Action
Time of use	10 years	Service by Manufacturer or disposal. <i>See instructions for use.</i>
Carbon filter cartridge life	Max. 6 months or exhaustion	Replacement and flush filter cartridge for 5 minutes. <i>See label on the equipment and instructions for use.</i>
Resin filter cartridge life	Max. 6 months or exhaustion	Replacement. <i>See instructions for use.</i>
Osmotic membrane life	Max. 4 years or exhaustion	Replacement. <i>See instructions for use.</i>
Machine off without electrical supply	Over 10 days or time uncontrolled	Intervention to replace the: <ul style="list-style-type: none">• Resin filter cartridge;• Osmotic membrane. and: <ul style="list-style-type: none">• disinfect the equipment (extraordinary intervention, contact the dealer for the methods).

For the maintenance method, see the specific section (8).

Specific tests were carried out to define the time of use and the maintenance methods.



After installation, the equipment must be powered and flushed for at least 5/15 minutes, for hygiene reasons.

If the equipment is left unpowered for 10 days or more, replace the resin filter cartridge and sanitize the relevant vessel.

5. Installation

PRELIMINARY INSTALLATION INSTRUCTIONS

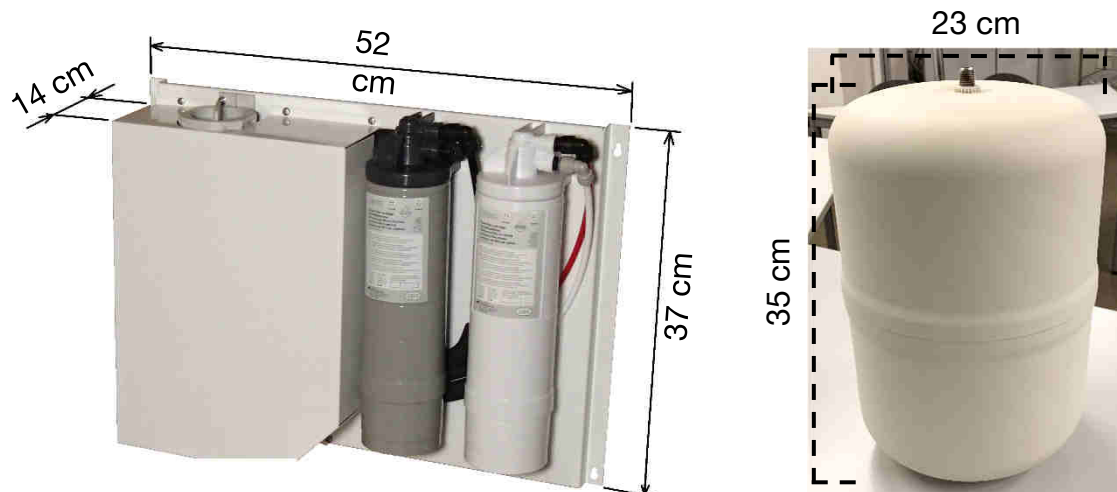
Wall-mounted installation

The water demineralizer should be fitted in a vertical position either beneath a sink or in a cabinet.

For mounting, use the supplied dowels and screws.

Install on the wall leaving a space of at least 10 cm from the floor or the bottom surface so that the filter cartridge can be dismantled.

Overall dimensions



*When the storage tank is full of water, it weights approximately 10 kg.
Check that the work surface can withstand this weight.*

Power supply

The equipment is supplied with 230 V ac or 115 V ac and the maximum power absorbed is 138 W.

Hydraulic installation

Drain

Install a drain nearby to dispose the waste water discarded by the osmotic membrane (max 1.5 m).

WB Valve

The safety valve (Water Block®) prevents a water flow greater than the set value, which is the flow requested by the appliance connected. This prevents big leaks in case a vessel or a tube gets broken. The Water Block is also fitted with a special check, preventing the return of water into the hydraulic system and possible consequent contamination.

For this purpose, the WB valve must be installed in a vertical position (refer to section 9).



Charge

The installation of the product with inlet water pressure above 5 bars, can drastically reduce the lifespan of the equipment.

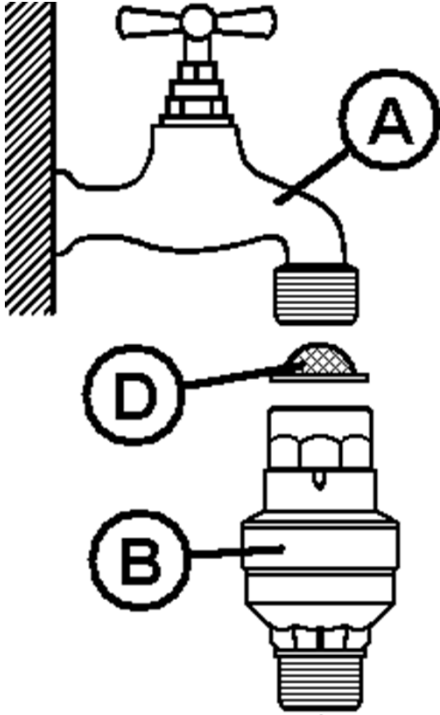
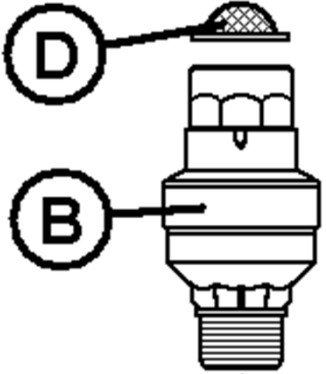
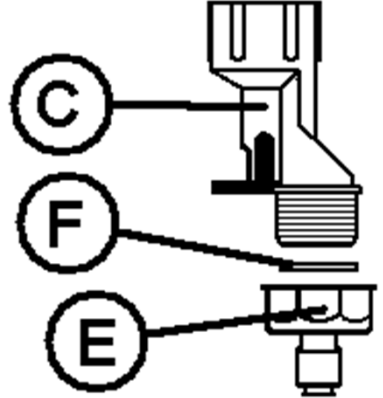
In case the inlet water pressure is more than 5 bars, install a suitable pressure reducer.

Installation

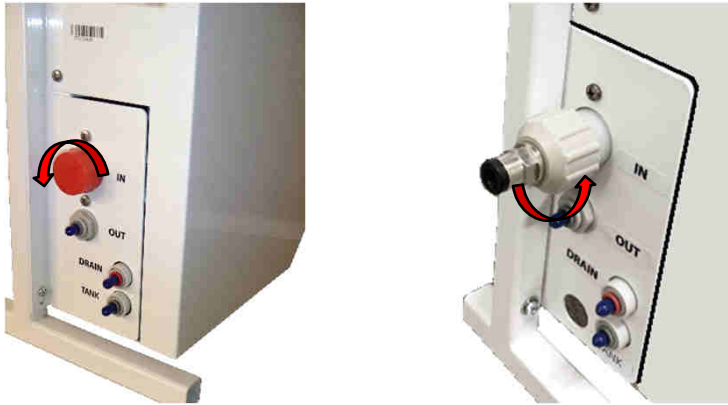

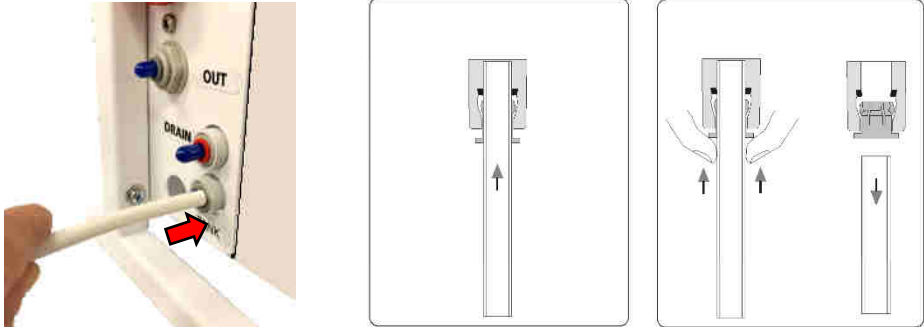
INSTALLATION PROCEDURE

Step	Description	Image
1	<p><i>Wall-mounted installation</i></p> <p>Install the osmotic group using the 4 supplied dowels and screws (see detail).</p> <p>OR</p> <p><i>Installation with brackets (optional)</i></p> <p>Install the brackets (see detail) on the osmotic group using the 4 screws and nuts.</p>	 


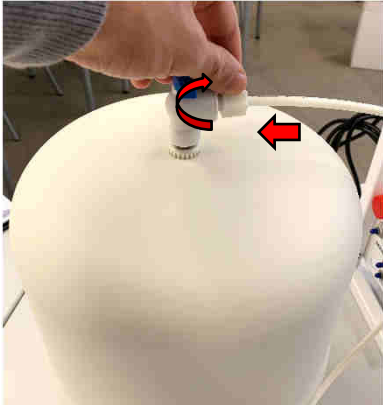
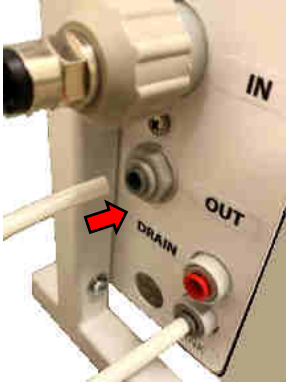
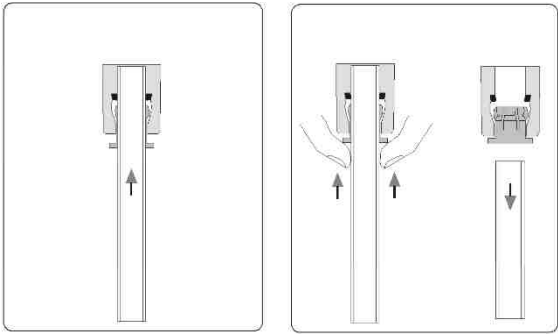
Installation

Step	Description	Image
2	<p>Connect the Water Block® valve (B) to the water network tap (A).</p> <p>Ensure the filter (D) is properly positioned.</p>	
3	<p>If this accessory is included in your package, install the Water Block® reset fitting (C) on the water block outlet.</p> <p>Attention: seal the thread with PTFE tape. Do not use glue nor paste as a sealant.</p>	
4	<p>Tighten the quick-connector fitting (E) ¾" (ø 8 mm) to the Water Block® valve outlet or to the reset fitting, if installed.</p> <p>Ensure the gasket (F) is properly positioned.</p> <p>Attention: seal the thread with PTFE tape. Do not use glue nor paste as a sealant.</p>	

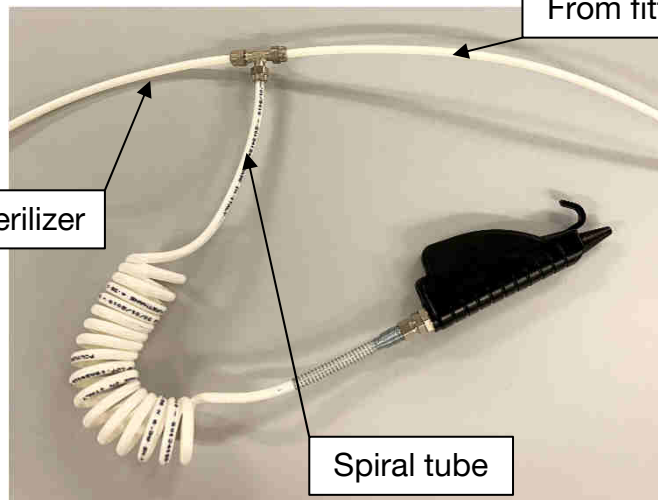
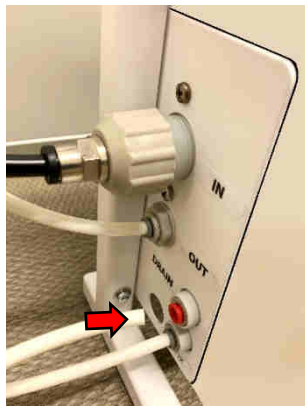
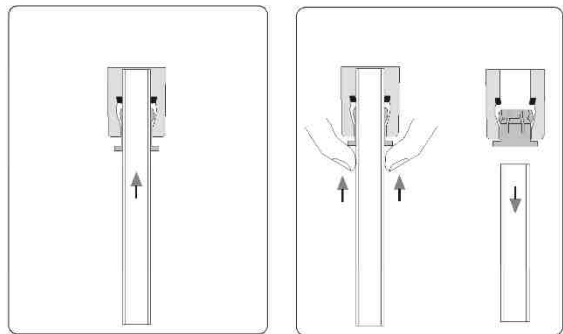
Installation

Step	Description	Image
5	<p>Remove the red cap from the “IN” fitting of the Osmo and tighten the quick-connector fitting $\frac{3}{4}$“ (ø 8 mm) on it.</p> <p>Attention: seal the thread with PTFE tape only. Do not use glue nor paste as a sealant.</p>	
6	<p>Connect the black tube to the fitting at the Water Block® valve outlet and to the “IN” fitting of the Osmo. These are quick-connector fittings: insert the tube until it hits the back of the fitting and pull slightly to check it is correctly inserted. To take the tube out of the fitting, press the fitting ring with your fingers and pull out the tube.</p>	
Note	<p><i>The following steps require the white tube to be cut into several pieces.</i></p>	
7	<p>Connect the white tube to the fitting “TANK” of the Osmo. This is a quick-connector fitting: insert the tube until it hits the back of the fitting and pull slightly to check it is correctly inserted. To take the tube out of the fitting, press the fitting ring with your fingers and pull out the tube.</p>	

Installation

Step	Description	Image
8	Tighten the tap on the storage tank. Attention: seal the thread with PTFE tape. Do not use glue nor paste as a sealant.	
9	Insert the white tube (from the fitting “TANK” of the Osmo) in the storage tank tap and tighten it with the ring nut.	
10	Connect the white tube in the fitting “OUT” of the Osmo. This is a quick-connector fitting: insert the tube until it hits the back of the fitting and pull slightly to check it is correctly inserted. To take the tube out of the fitting, press the fitting ring with your fingers and pull out the tube.	 

Installation

Step	Description	Image
11	Insert the other end of the tube from the fitting “OUT” of the Osmo to the T-connection of the water dispenser and tighten it with the ring nut.	
12	<p>Insert one white tube into the T-connection of the water dispenser and the other end of the tube in the “water supply inlet” fitting of the sterilizer.</p> <p>Insert the spiral tube of the water dispenser in the other free fitting of the T-connection.</p> <p>Note: <i>tighten the tubes connected to the T-connection with the ring nuts.</i></p>	
13	<p>Connect the white tube to the fitting “DRAIN” of the Osmo.</p> <p>This is a quick-connector fitting: insert the tube until it hits the back of the fitting and pull slightly to check it is correctly inserted.</p> <p>To take the tube out of the fitting, press the fitting ring with your fingers and pull out the tube.</p> <p>Note: <i>insert the other end of the tube in a draining sink or a collecting basin.</i></p>	 



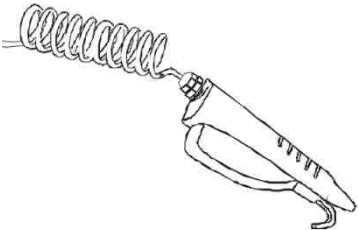
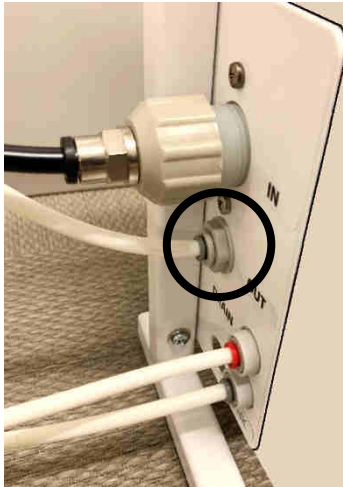

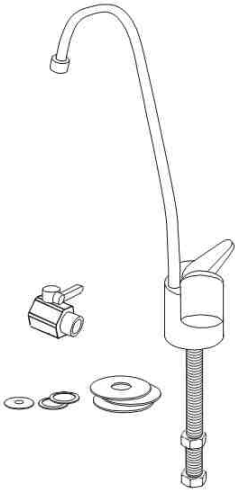
Installation





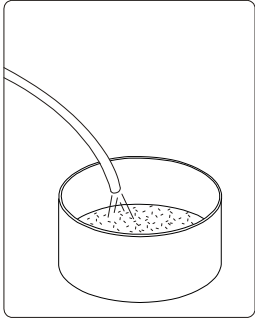

- Connection to:
- Water dispenser
 - Tap (optional)

Example of installation

Installation

EXAMPLES OF USAGE	
Description	Image
Manual use with water dispenser for manual filling of the sterilizer tank and washing of instruments.	 +  + 
Manual usage with tap (optional).	 +  + 

6. Priming

Step	Description	Image
1	<p>Slowly open the water network tap. Plug the Osmo mains cable into the power socket.</p> <p>Note: <i>make sure there is no leakage and there are no traces of water on the bottom of the equipment.</i></p> <p>Do not operate the equipment without having opened the water supply first. The pump can suffer irreparable damage if run dry.</p>	
2 	<p>Let the water come out of the “DRAIN” tube until it is clean and free from black bits and other residuals.</p> <p>WARNING: During this phase, the Water Block® valve could operate, due to the water quantity required. If this happens, reset the Water Block® with the reset device and let the priming phase go on.</p> <p>If the reset device is not fitted, divide the priming phase into several sub – phases, separated by a 10 second OFF period, giving the Water Block® valve the time to get automatically reset.</p>	 <p>5 ÷ 15 min</p>
3	<p>Open the storage tank tap.</p>	

7. Use and operation

USE OF OSMO

Once the system has been correctly installed and connected, the demineralizer is able to immediately supply purified and demineralized water.

If the demineralized water is used to run a sterilizer, you may choose between manually filling the sterilizer tank with the water dispenser, or having it filled automatically (if the sterilizer is suitable for connection to a purified water system).

The quantity of water produced by the filter cartridges depends on the quality and hardness of the city water supply in the installation area.

PRECAUTIONS TO AVOID WATER CONTAMINATION



In accordance with subsection 4.5 of EN1717, in order to avoid water quality degradation and bacterial growth, the entire system must be drained before leaving it unused for more than 10 days.



Re-using the system after a long period of non-use.

To restart the equipment when it hasn't been used for a long time or after the equipment has been emptied, the system must be flushed for at least 5 minutes (see section 6 "Priming", points 1, 2 and 3).

It is also recommended not to leave the storage tank filled with demineralised water for a long period of time.

BY-PASS ADJUSTMENT

The pump is equipped with a by-pass system to adjust the fixed residue of the produced water.



Don't change the by-pass system setting.



8. Maintenance



Disconnect the mains plug before carrying out any maintenance.
Check regularly the housing and the mains cable for damage in order to prevent electrical accidents.

EXTERNAL CLEANING

Switch the equipment OFF before cleaning.

Clean the equipment with a damp cloth using non-abrasive and non-corrosive detergents (neutral pH value).

For better cleaning results, clean with W&H MC-1000 cleaning solution.

MAINTENANCE OF THE Water Block®

Depending on the city water quality in your area and the frequency of use of the equipment, the valve inlet filter should be regularly cleaned as explained in the instructions of the Water Block®.



Regular check of the Water Block®

To ensure compliance with subsection 4.6 of EN1717, have the Water Block checked at least once a year; in case a sterilizer is attached to the system, this could be done during the scheduled maintenance visits for the sterilizer.

It is further recommended to check all related devices fitted to the sterilizer to ensure that the hydraulic connection between demineralized and sterilizer corresponds to category 2, in accordance with EN 1717.



The Water Block serves as an anti-flooding device.

It operates only if there is a considerable leak (such as a cut in the tube between the Water Block® and the demineralizer).

The Water Block® device does not protect against small leaks

Maintenance

REPLACEMENT OF THE FILTER CARTRIDGES / MEMBRANE

Only use genuine cartridges as they have been specifically designed for this product.

The lifespan of the filter cartridges depends largely on the operating conditions and, above all, on the quality of the city water in your area.

Annual cartridge replacement is recommended for average use.

Resin filter cartridge	Max. 6 months or exhaustion
Carbon filter cartridge	Max. 6 months or exhaustion
Osmotic membrane	Max. 4 years or exhaustion

Notes:







- If the water has a conductivity value of over 15 μS after the “filter cartridge maintenance kit” has been replaced, also replace the osmotic membrane;
- All the filter cartridges can vary slightly, which in combination with unfavourable operational conditions (e.g. high temperature, high presence of chemical particles in the water supply, high pressure) can cause a high reduction in the performance and the life of the product;
- In the event of unexpected contamination of the input water (for example the presence of soil), all filter cartridges can get damaged. Replace the “filter cartridge maintenance kit” and check if the osmotic membrane also needs changing.

IDENTIFICATION OF THE FILTER CARTRIDGES



Maintenance

REPLACEMENT OF THE FILTER CARTRIDGES


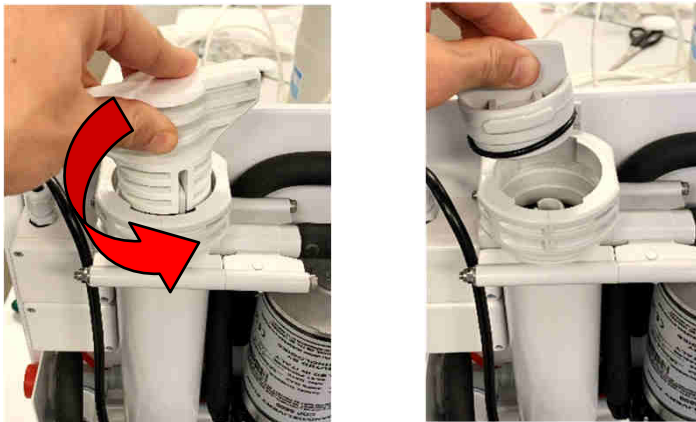
Step	Description	Image
1	Disconnect the electrical power supply.	
2	Close the water inlet tap and the storage tank tap.	 
3	If present, release the water pressure with the use of the water dispenser or tap (if connected - optional).	
4	Turn the exhaust filter cartridge counter-clockwise and remove it. Note: during this operation, water will inevitably pour out of the vessel.	 
5	Insert the new filter cartridge and turn it clockwise to the end, until you hear a click, and align the closed lock icon to the arrow on the head. Note: check carefully that there are no water leaks.	 
6	Follow the priming procedure as described in section 6.	

Maintenance

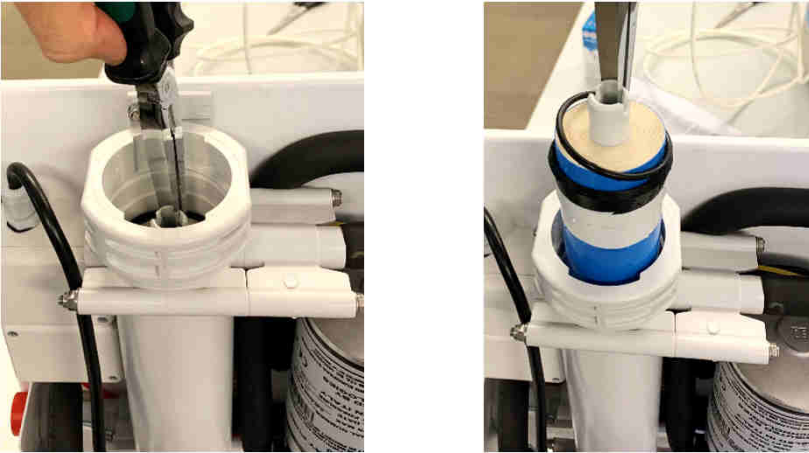
REPLACEMENT OF THE OSMOTIC MEMBRANE



After osmotic membrane replacement, the equipment needs to be primed!
Refer to section 6 “Priming” for further instructions.

Step	Description	Image
1	Disconnect the electrical power supply.	
2	Close the water inlet tap and the storage tank tap.	
3	If present, release the water pressure with the use of the water dispenser or tap (if connected - optional).	
4	Remove the front cover plate by removing the relevant screws.	
5	Using the appropriate tool, unscrew the osmotic vessel cap by turning it counter-clockwise and remove it.	

Maintenance

Step	Description	Image
6	Extract the membrane with the help of pliers. Note: <i>during this operation, water will inevitably pour out of the vessel.</i>	
7	Insert the new membrane completely, making sure that the two o-rings are positioned correctly. Tighten the osmotic vessel cap by turning it clockwise with the appropriate tool. Note: <i>check carefully that there are no water leaks.</i>	
8	Reinstall the front cover plate.	



After osmotic membrane replacement, the equipment needs to be primed!
Refer to section 6 “Priming” for further instructions.

9. Water Block[®] safety valve

Water Block (WB) SAFETY VALVE

Indispensable device for washing machines, dishwashers and demineralizers as, under the conditions defined in the technical features herewith described, it prevents a flow of water greater than the one for which it has been set by the adjustment pointer.

This avoids continuous leaking. The Water Block also has a particular non-return valve (antipollution).

The device should be installed vertically (see *fig.2*) and following the instructions carefully.

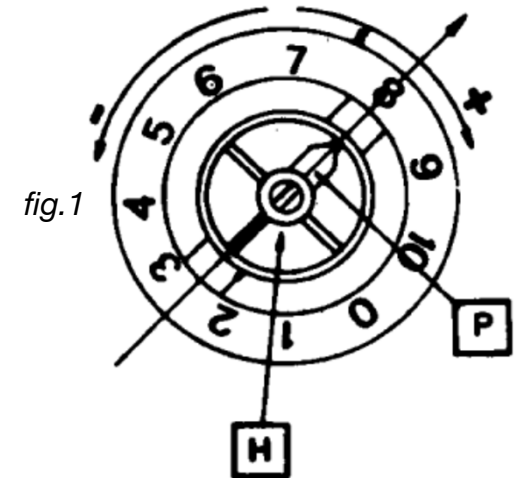
TECHNICAL FEATURES

- Burst pressure: 500 N/cm²
- Max. static pressure: 100 N/cm²
- Max. controllable volume: about 50 lt
- Min. operating capacity: 2 lt/min
- Max. operating capacity: 30 lt/min
- Max. water temperature: 70 °C

USER INSTRUCTIONS

Water Block should be installed between the tap and the supply hose of the demineralizer (*fig. 2*).

Using the enclosed plastic key, turn pointer 'P' (*fig. 1*) counter-clockwise to the required setting (example, position 1,5).



For use on other fixtures, set the pointer to a position suitable for that particular application, considering that each number on the scale corresponds to a controlled volume of approx. 4-6 litres.

In case of installation on drinking water lines, it is recommended to let flow at least 10 litres of water inside the device before the connection, so as to remove all impurities banked during the storage.

Water Block® safety valve (*)

INSTALLATION

1. The device must be installed in vertical position, flow downwards.
2. Manually screw the WB to the tap having suitable thread (G 3/4"), inserting the filter 'E' with its convex side facing upwards (*fig.2*). The WB will not operate properly if the filter is not installed correctly. If a tool is used, apply it to the octagonal section 'A' of the valve housing.
3. Install the reset fitting, if supplied, on the outlet of the WB
4. Screw the supply hose 'C' to the lower end of the WB (or of the assembly WB + reset fitting). If the supply hose is equipped with a filter, the latter must be substituted by a flat rubber washer 'F'. If a tool is used to hold the valve, apply it to the octagonal section 'B' of the valve housing.
5. The WB will shut off if a failure causes a water leak whose volume exceeds the set point value set with the pointer "P". The WB device does not protect against small leaks.

RESETTING THE WATER BLOCK®

NOTE: Before resetting the WB, it is necessary to repair the fault that caused it to operate.

Turn the tap off and push the reset lever upwards (see the red arrow). A small click indicates that the system is reset. If the reset fitting is not installed, remove the supply hose 'C' from the Water Block and press the coloured plunger 'H' which is located inside the lower housing of the device itself (*fig.1*).

WARNING: It may be difficult to press this plunger if there is high pressure at the inlet side of the WB. In this case, slacken the device from the tap to release the pressure: the plunger 'H' can then be pressed with ease. Repeat the operation as described in the section headed 'Installation'.



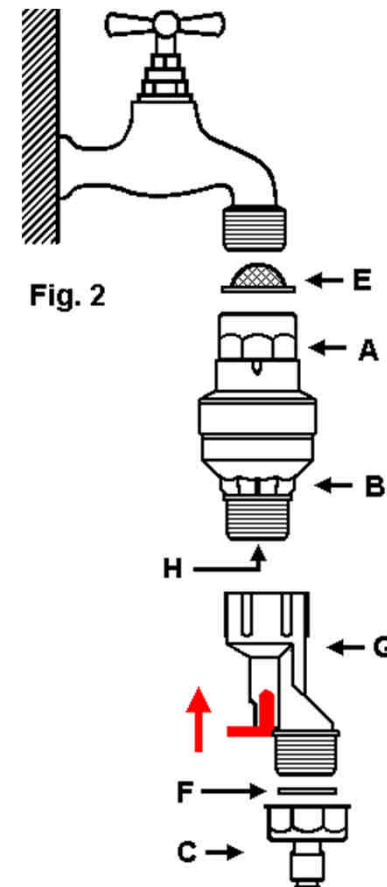
To avoid any possible damage that may be caused by water freezing inside the WB after its installation, the room temperature should never drop below 2° C.

W&H decline all responsibility deriving from the incorrect use of the WB or from its use for applications and/or solutions not expressly foreseen by the above instructions.







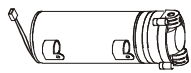
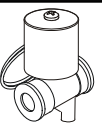




MAINTENANCE

Depending on the conditions and frequency of usage of the Water Block, it is recommended to clean out the inlet filter 'E' and to replace the seal 'F' periodically.




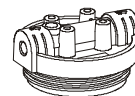
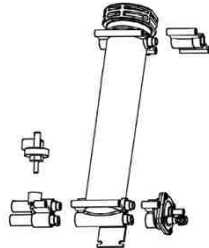
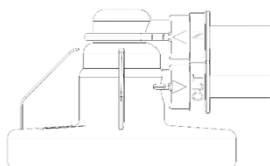


We reserve the right to modify any features without prior notice.




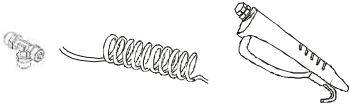
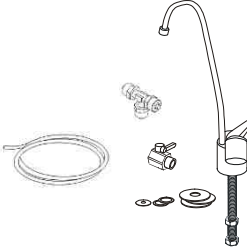
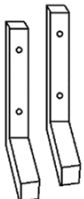
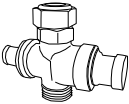
10. Spare parts

Description	Code	Drawing/Image
Resin filter cartridge	A813028X	
Carbon filter cartridge	A813027X	
Osmotic membrane	A813029X	
Filter cartridge maintenance kit (resin + carbon filter cartridges)	A813030X	
Complete maintenance kit (resin + carbon filter cartridges + osmotic membrane)	A813053X	
No.2 quick-connector fittings $\frac{3}{4}$ " - tube \varnothing 8 mm	A813031X	
Pump 230 V	A813032X	
Pump 115 V	A813033X	
Solenoid valve 230 V	A813034X	
Solenoid valve 115 V	A813035X	
Fuse	A813036X	
Water Block® valve (including filter and setting key)	A812005X	
Reset fitting for Water Block® valve	W230505X	
Black tube 2 m (\varnothing 8 mm)	A813037X	
White tube 4 m (\varnothing 6 mm)	A813038X	

Spare parts

Description	Code	Drawing/Image
Storage tank	A813039X	
Tap for storage tank	A813040X	
O-ring for osmotic membrane (10)	A813041X	
Resin filter cartridge head	A813043X	
Carbon filter cartridge head	A813042X	
Osmotic vessel	A813046X	
L-shaped quick fitting ø 8 mm – for black tube	A813047X	
L-shaped quick fitting ø 6 mm – for white tube	A813048X	
L-shaped quick fitting ø 6 mm – for red tube	A813049X	
Tube insulation	A813050X	
Red tube 1 m (ø 6 mm)	A813051X	

Spare parts

Description	Code	Drawing/Image
Pressure switch	A813052X	
Water dispenser kit	A812018X	
Water tap kit (optional)	A813044X	
Support bracket kit (optional)	A813045X	
Pressure reducer 3/4" x 3/4" 3 bar (optional)	A813025X	

11. Troubleshooting

FAULT TABLE

When solving problems, assess and remove the possible causes in the given order.

Anomaly	Cause	Intervention
Motor alarm (the equipment does not deliver water)	Water delivery for over 15 min	Switch the equipment OFF and ON
	Large leak inside or downstream of the machine	Repair the fault, switch the equipment OFF and ON
Leak	Leaking from components	<ul style="list-style-type: none"> • Switch off the equipment • Ascertain the cause • Repair any leaking point • Dry carefully
	Presence of water following maintenance operation	
The machine does not deliver water, no output	Electrical power supply problem	Check the electrical power supply / water inlet presence
	Water inlet problem	
	Water Block® operated	Set the Water Block® properly
The motor pump starts by itself at regular intervals	Leak on the supply circuit downstream of the machine (also slight) or at the delivery tap	Repair the leak
	One-way valve dirty or damaged	Replace the one-way valve
Poor delivery flow rate (under 0.6 l/min)	Poor input flow rate	Solve the plumbing problem
	Solenoid valve filter clogged	Clean the solenoid valve filter
	Exhausted filter	Replace the filter
	Exhausted membrane	Replace the membrane
	Broken motor pump	Replace the motor pump
The motor also works with the water delivery closed	Broken pressure switch	Replace the pressure switch
	Wiring cut or disconnected, check with a multimeter	Repair or replace the wiring

12. Technical data

Description	Technical data
Operating temperature	+5 °C ÷ 30 °C
Storage temperature	+5 °C ÷ 35 °C Protect from sunlight or other sources of heat
Electrical power supply	230 V ac, 50/60 Hz, 0.6 A 115 V ac, 50/60 Hz, 1.2 A
Max. relative humidity	95 %
Max. absorbed power (230 V)	138 W
Max. absorbed power (115 V)	138 W
Class of insulation	III
Min./max. supply pressure	0.5 / 5 bar
Usage environment	Indoor
Weight with filter cartridges (empty storage tank)	~13 kg
Weight of storage tank (empty)	~2,5 kg
Tank - storable volume	ca 7 litres
Quantity of produced water with conductivity < 15 µS *	10,000 litres

* Test conditions: T= 25 °C, tap water quality 300 µS and water pressure of 3 bar; with continuous flow.

13. Authorized W&H service partners

A list and a map with your nearest W&H service partner are available at <http://wh.com>.

14. Product disposal

The crossed out wheelie bin symbol on the equipment or its packaging indicates that the product at the end of its useful life must be collected separately from other waste.

Separate collection of this equipment at the end of its life is organized and managed by the supplier. The user shall contact the supplier and follow the method that has been implemented for disposing of the equipment at the end of its life.

The correct disposal technique of the used equipment, which must be recycled, treated and disposed of in an environmentally friendly way, helps to avoid possible negative effects on the environment and on health; it also facilitates the recycling of the materials the equipment is composed of.

Incorrect disposal of the product by the user involves application of the administration sanctions according to the laws in force.





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Osmo ENG Instructions for Use - Rev 2

Subject to alterations

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