Pre-instruction Literature

On Receipt

It is our policy to promote safe delivery of all orders. This product shipment has been thoroughly checked, packed and quality certified before leaving our factory.

Visible Loss or Damage

If any of the goods called for on the bill of lading or express receipt are damaged or the quantity is short, do not accept them until the freight or express delivery agent makes an appropriate notation on your freight bill or receipt.

Concealed Loss or Damage

When a shipment has been delivered to you in apparent good condition, but upon opening the packaging if any loss or damage has taken place while in transit, inform the carrier's agent / A. O. Smith representative immediately.

About this manual

This manual is a guide to good practice for operating and periodic maintenance of the A. O. Smith Under Sink $X5^{+}$ RO Water Purifier.

This does not contain the full servicing procedures necessary for continued successful operation of this product. The services of A. O. Smith Company Authorised Service Technician must be employed periodically on the same. Do not operate before reading manual supplied with this product.

Please follow instructions in this manual to ensure personal safety and proper operation of this product. A. O. Smith assumes no liability for installation or servicing performed by any unauthorised personnel. Always install, operate, inspect and maintain this product in accordance with all applicable standards. Please store this user manual carefully for any future reference.

Disposal of this Product (Waste Electrical and Electronic Equipment)

This marking on the product, accessories or User Manual indicates that the product and its electronic accessories (e.g. Remote, batteries and other replaceable electronic accessories) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable re-use of material resources.

Household users should contact their local government office, for details of where and how they can take these items for environmentally safe recycling. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



A. O. Smith Under Sink X5⁺ RO Water Purifier uses one of the latest technologies that is used in water purification process. A. O. Smith Under Sink X5⁺ RO Water Purifier works under the principle of RO (Reverse Osmosis) technology which is found to be one of the most effective process. In this process, water under pressure is passed through a semi-permeable membrane. Purified water is collected for drinking in a storage tank and impurities in the water are flushed to the drain.

Why water purification is important?

Water purification, today is essential due to the presence of harmful contaminants present in the water supply. Rapid urbanisation and speedy industrial growth have led to significant pollutants and contaminants being found in the water supply. Below is a list of some of the harmful contaminants found today in the water supply which if consumed in excess can be detrimental to human health.

•TDS (Total Dissolved Solids) like Nitrates, Chlorides, Sulphates etc.

Pesticides and VOC (Volatile Organic Compounds).
Heavy metals like Mercury, Arsenic, Lead, Chromium, Cadmium etc.
Microorganisms such as pathogenic bacteria, virus, protozoa and cysts.

A. O. Smith Under Sink X5 + RO Water Purifier removes excessive TDS (Total Dissolved Solids) in water by more than 95%. A. O. Smith Under Sink X5 + RO Water Purifier reduces heavy metals and removes pathogens. By this, it ensures you safe and great

How does the A. O. Smith Under Sink X5⁺ RO Water Purifier work? A. O. Smith Under Sink X5⁺ RO Water Purifier has 6 stages of purification system wherein the water is passed through the various stages and progressively filtered to get purified water which is stored in the in-built storage tank.

Stage 1 – Pre Sediment filter

The Pre Sediment filter is used to remove physical contaminants such as dirt, dust, soil particles, turbidity present in the water. This improves the life of the Carbon block. Stage 2 – Carbon block

The Carbon block has high adsorbtion capacity which reduces harmful chemicals including pesticides, volatile organic compounds, residual chlorine etc., from water. It also adsorbs bad taste and odour causing organic compounds from water. Stage 3 – Sediment filter

The Sediment filter is used to remove fine and coarse physical contaminants present in the water. This improves life of the RO membrane and ensures efficient working of RO membran

Stage 4 - RO (Reverse Osmosis) membrane

RO membrane contains semi-permeable membrane wherein the water is passed through the semi-permeable membrane to remove TDS (Total Dissolved Solids) and heavy metals like mercury, arsenic, lead, chromium, cadmium etc. It also removes microorganisms like bacteria, virus, protozoa and cysts. The preservative used in the RO membrane is food-grade Sodium meta bi-sulphate

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General Instructions

Safety

Your safety and the safety of your loved ones is paramount to us. There are several safety related messages in this manual, which have been provided during various steps such as the installation, operation and maintenance of your A. O. Smith Under Sink X5⁺ RO Water Purifier. These messages point out potential hazards and also educate on how to reduce any potential risks. Please always read and follow all safety messages as accurated in this user menual. provided in this user manual.



IMPORTANT

These instructions have been written as a guide for the proper installation and operation of your A. O. Smith Under Sink X5⁺ RO Water Purifier. A. O. Smith will not accept any liability where these instructions have not been followed. However, for your safety and to avoid damage caused by improper installation, it is recommended that Water Purifier must be installed by A. O. Smith Authorised Constant Deviation and the second secon Service Technician only.

- Before proceeding with the installation instructions
- . Inspect the A. O. Smith Under Sink X5⁺ RO Water Purifier and its component parts for possible damage. Do Not install or attempt to repair any damaged component parts. If you detect any damage in the A. O. Smith Under Sink X5⁺ RO Water Purifier, please contact the dealer where the Water Purifier was purchased or call
- A. O. Smith Customer Care Centre. A. O. Smith Cistomer care centre. Verify that the voltage being supplied corresponds to that which is mentioned in the A. O. Smith X5⁺ RO Water Purifier manual.

Key Features of your A. O. Smith X5⁺ RO Water Purifier

PURITY THROUGH 6 STAGE PURIFICATION

6S TECHNOLOGY: Pre Sediment + Carbon Block + Sediment filter + Patented Side Stream RO Membrane + SCM-TECH[®] (Silver Activated Post Carbon + MIN-TECH). In A. O. Smith X5⁺RO Water Purifier 100% water passes through the RO membrane.



ADVANCED PATENTED SSM TECHNOLOGY (SIDE STREAM RO MEMBRANE) Suitable for water with low and high (up to 2000 ppm) TDS. Wastes less

water and improves pure water recovery MIN-TECH (MINERALISER TECHNOLOGY)



GOOSE-NECK FAUCET el faucet for user convenience



LARGE STORAGE CAPACITY Purified water storage capacity of 6 litres.

ISO ISO ISO

CERTIFIED



Product colour and image shown may vary from the actual product. Part No. : 335300-106_B Date: 22-12-2023

CERTIFIE

Stage 5 and Stage 6 – SCM-TECH® (Silver Activated Post Carbon and MIN-TECH)

2

This filter is the combination of Silver Activated Post Carbon and MIN-TECH (Mineraliser Technology). Silver Activated Post Carbon acts as polisher and enhances the taste of water. MIN-TECH containing Calcium and Magnesium minerals which helps to improve the taste and quality of water, it also adds the required essential minerals back to water and balances the pH of water.

Installation Overview



Part	Description		Part	Description
1	Normal water supply		5	Storage tank
2	Hot water supply		6	Power adapter
3	Ball valve]	7	Goose-neck faucet
4	Under Sink X5 ⁺ RO Water Purifier			

Note: The Ball valve, Storage tank and Goose-neck faucet comes along with the product as standard accessories

4

Water flow

CEBTIEIED



Flushing Procedure

Filter configuration	Connection	Dura (Minu
Pre Sediment filter flush	Pre Sediment filter>Drain	5
Carbon block flush	Pre Sediment filter>Carbon block>Drain	5
Sediment filter flush	Pre Sediment filter>Carbon block>Sediment filter >Drain	5
SCM-TECH® flush with Pump	Pre Sediment filter>Carbon block>Sediment filter > Pump>SCM-TECH®>Drain	20
Storage tank filling (first tank)	Pre Sediment filter>Carbon block>Sediment filter >Pump >RO>Tank>SCM-TECH [®] (close faucet)	3
Drain faucet (first time)	Pre Sediment filter>Carbon block>Sediment filter >Pump >RO>Tank>SCM-TECH® (open faucet)	3



Water Purifier

X5⁺







User Manual



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Safety Precautions

Electrical Safety

Even though this product is designed keeping highest safety standards in mind, there are certain Do's and Dont's which need to be followed while using this product.

Power plug must be used with a grounded 230 V outlet. It is recommended to connect the product to the power supply only with the plug that is provided with the purifier.



O. Smith Company Authorised Service Technician. Do not open the purifier for cleaning the filters or for any part replacements. This must be done only by A. O. Smith Company Authorised Service echnician Figure 5

Product should be installed only by A.

Make sure that the feed water is tested before installation. Do not install the product if the TDS and Hardness are more than that prescribed in the recommended feed water condition (Refer Page 13).

Figure 6





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Problems	Possible Cause(s)	Solution
Less / No purified water.	Check whether there is water supply in the tap.	If not, take the help of a plumber to set it right.
	Check whether tap/ball valve is closed.	Open the tap/ball valve.
	Water is completely drawn from the storage tank.	Wait until the storage tank gets filled.
	None of the above.	Call Customer Care Centre.
No Auto flush	Auto flush controller / Flush solenoid valve failure.	Call Customer Care Centre.

Note: Call Customer Care No. 1860-500-2468.

Do not connect hot water supply to the purifier. Make sure that the inlet water temperature to the purifier should be between 5°C to 45°C.

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Technical Specifications

Product Dimensions (H x D x W)

Net Weight

Gross Weight

Production rate*

Membrane type

Pump type

Input Voltage

% Recovery**

TDS reduction**

Input water temperature

Power rating (Max)

Pressure Rating***

Storage tank capacity

Purification technology

6 Stage Purifying Technology

Material of construction for plastic parts

characteristics and condition of the filters

MM

WINHAM

MAHAM

8

A. O. Smith Under Sink X5⁺ RO

460 mm x 205 mm x 365 mm

12 kgs (approx.)

14 kgs (approx.)

6 litres (approx.)

plastics

48 Watts

7 psi to 30 psi

Minimum 40%

≥95% (approx.)

5°C to 45°C

Upto 15 litres per hour

RO (Reverse Osmosis)

150 – 300 VAC, 50 Hz

Pre Sediment filter+ Carbon block + Sediment filter + Side Stream RO membrane + SCM-TECH[®] (Silver

Activated Post Carbon + MIN-TECH)

Thin film composite RO membrane

Food safe, non-toxic, engineering grade

Diaphragm pump, 24VDC, 0.26 Amps, Operating Pressure 125 psi (Max.)

Figure 8

Ø

Hot water

supply

A

Do not place any chemicals, thinner, soap or any other cleaning items on the purifier.



How to use

2. Switch ON the power supply 1. Turn ON the water connection through the ball valve. Figure 11 Figure 10 50 3. Turn the faucet knob in anti-clockwise direction to dispense water from the storage tank. Figure 12



Note

 Discard the first cycle of pure water, before you start using it for consumption. Make sure to discard the water from the storage tank if you have not used the purifier for more than 2 days.

Cleaning of Tank

Switch off the purifier and drain purified water tank water completely. Bypass the SCM-TECH[®] filter and connect faucet after pressure tank. In a beaker or container, dissolve one A. O. Smith disinfectant tablet in 50 ml water and slowly Inject dissolved solution slowly drop by drop into the tank using a 50 ml disposable syringe. Upon completion of the transfer of disinfectant solution, close the faucet and switch on the purifier. Allow purifier to fill the tank and keep the system idle for 5 minutes. Discard the water through the faucet and remove any excess water. Switch on the unit and drain one tank of water through faucet before consuming. As per the water flow diagram, reconnect the SCM-TECH® filter in its original position

Frequency of cleaning: Once in a year along with annual maintenance.

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Recommended input feed water quality for the optimum performance of your product

*Recommended Feed Water Quality				
Parameter	Limits			
Total Dissolved Solids (TDS)	Up to 2000 ppm			
Total hardness	Up to 500 ppm			
Turbidity	Up to 5 NTU			
Iron	0.3 ppm (max.)			
Feed water pressure	7 psi to 30 psi / 0.048 Mpa to 0.206 Mpa			
Feed water temperature	5° C to 45° C			
Caution: The RO system is not recommended for arsenic level above 0.1 mg/l an fluoride level above 8.0 mg/l				

*The performance of the all filters depends on the input water conditions as mentioned above.

Warranty details/recommended filter change:

As per the warranty, all the filters, including RO membrane needs to be replaced as per below details

Consumable Filters	Average Service Life
Pre Sediment filter	6000 litres*
Carbon block	6000 litres*
Sediment filter	6000 litres*
Side Stream RO membrane	6000 litres*
SCM-TECH®	6000 litres*

*As per standard test conditions

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* Production rate depends on variable factors such as feed water pressure, feed water

*** If input pressure exceeds 30 psi, a pressure reducing valve needs to be installed at the feed line. If the pressure is lower than 7 psi, a booster pump needs to be installed Ensure you buy them from A. O. Smith Company Authorised Service Technician.

** TDS reduction percentages also depends on variable factors such as life and condition of the filters, feed water pressure, feed water characteristics etc

[†] Storage tank capacity depends on the storage tank bladder pressure

Front Side Size: 420 mm (W) x 297 mm (H)

Troubleshooting

Your A. O. Smith Under Sink XS⁺ RO Water Purifier may not function at its desired capability if used incorrectly. This may not necessarily mean that the product is faulty. For instances like these, please follow the steps given below to troubleshoot the problem without the help from a certified technician. If the problem still persists, please call Customer Care Centre immediately.

Problems	Possible Cause(s)	Solution
Change in water taste	Has the purified water been stored in the tank for long time?	Drain the stored water from the storage tank through faucet.
	RO membrane / filters may require replacement.	Call Customer Care Centre for RO membrane / filters replacement.
	Has the raw water quality changed?	Call Customer Care Centre.
	Check if there is no water flow through reject line.	Switch OFF the Water Purifier and call Customer Care Centre.
Decreased flow of purified water	Check whether the tap/ ball valve is closed.	Open the tap/ball valve.
	RO membrane / filters may be clogged or damaged.	Call Customer Care Centre for RO membrane / filters replacement.
Less / No reject water.	Check if the reject water tube is bent.	Clear the bent in the reject water tube.
	Check if the reject water tube is blocked.	Switch OFF the Water Purifier and Call Customer Care Centre.

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Frequently asked questions (FAQ)s

- 1. What is A. O. Smith Under Sink X5⁺ RO Water Purifier? A. O. Smith Under Sink X5⁺ RO Water Purifier is advanced 6 stages RO from A. O. Smith. It is 100% RO with no bypass of water for maximum purity
- 2. What is 100% RO? In ordinary RO+UV Water Purifiers, some amount of water is made to bypass the RO membrane. With this, heavy metals, unwanted salts and pesticides also pass through. In A. O. Smith Under Sink X5⁺ RO Water Purifier, 100% of the water is passed through the RO membrane which ensures maximum purity of water.
- 3. How many stages A. O. Smith Under Sink X5⁺ RO has? And what are the stages? A. O. Smith Under Sink X5⁺ RO Water Purifier has 6 stages of purification which are Pre Sediment filter + Carbon block + Sediment filter + Patented Side Stream RO membrane + SCM-TECH[®] (Silver Activated Post Carbon + MIN-TECH).
- 4. What is the storage capacity in the A. O. Smith Under Sink X5⁺ RO Water Purifier?
- The storage capacity in the A. O. Smith Under Sink X5⁺ RO Water Purifier is 6 litres of pure water.
- 5. What is the purification Production rate of A. O. Smith Under Sink X5⁺ RO Water Purifier? Upto 15 litres per hour, purification capacity also depends on water quality,

condition of filters, storage tank bladder pressure and RO membrane.

6. What is the Advanced SSM technology? How is it different from other technologies and what are its advantages? The Advanced SSM is an abbreviation for the side stream RO membrane

technology. Unlike traditional membranes, this membrane has water inflow from 2 sides which results in better rejection of dissolved solids. It also results in higher membrane life.

7. What is the average life of the Pre Sediment filter, Sediment filter and Carbon block?

The Pre Sediment filter, Sediment filter and Carbon block needs to be replaced at 2,500 litres (approx.) of purified water. Depending on the feed water quality, the Pre Sediment filter may be changed even earlier. Sediment filter and Carbon block needs to be replaced at 2,500 litres (approx.) of purified water. SCM-TECH* (Silver Activated Post Carbon + MIN-TECH) needs to be replaced at 6,000 litres (approx.) of purified water.