Key Features

Purity Through 6 Stage Purification
- RO TECHNOLOGY - Sediment Filter + CB Filter* (Sediment filter + Carbon Block) - Patented Safe Stream RO Membrane + CAO-TECH™ Silver Activated Post Carbon + Silver Activated Post Carbon.

- A.O. Smith’s RO membrane contains Semi-permeable membrane wherein the water is passed through the semipermeable membrane to remove salts and impurities in the water.

Advanced Patented SSM Technology (Side Stream Membrane)

Suitable for water with low and high (up to 2000 ppm) TDS. Waters less water and improves pure water recovery.

MN-TECH™ (Mineralization Technology)
The MN-TECH™ Mineralization Technology adds essential minerals to the water. This ensures that the water tastes fresh and has balanced pH – an essential requirement for drinking water.

Digital Display

Digital display for simple and intelligent display of information. (only for X3Model).

CONVENIENCE

Provision for wall mounting only.

ADVANCE ALERT TECHNOLOGY

For RO membrane and Pre-Post RO filters change.

WARRANTY

For X3, 1 year warranty on all electrical parts & functional parts and 6 months warranty on RO membrane and all other filters.

For X2 – 1 year warranty on all electrical parts & functional parts as well as RO membrane and 6 months warranty all other filters.

WQA Certified RO Membrane

RO membrane element is A. O. Smith’s Silver Activated Post Carbon Water Purifier. This is tested and certified by WQA against NSF/ANSI 58 for material requirements.

Introduction

A. O. Smith’s X3 Water Purifier uses one of the latest technologies that is used in water purification process. A. O. Smith’s X3 Water Purifier works under the principle of RO (Reverse Osmosis) which is based on the most effective process. In this process water under pressure is passed through a semi-permeable membrane. Purity and safety of 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 industrialisation and urbanisation have led to an increase in 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 Nitrites, Chlorides, Sulphates etc.
- Pesticides and VOC (Volatile Organic Compounds).
- Heavy metals like Mercury, Arsenic, Lead, Chromium, Cadmium etc., implanted salt.
- Microorganisms such as pathogenic bacteria, virus, protozoa and cysts.

A. O. Smith’s X3 Water Purifier removes excessive TDS (Total Dissolved Solids) in water by means of RO. A. O. Smith’s X3 Water Purifier reduces heavy metals, removes pathogens and balances the pH value. By this, it ensures you are safe and get healthy water.

How does A. O. Smith’s X3 Water Purifier work?

A. O. Smith’s X3 RO Water Purifier has 5 stages of purification system, where the water is passed through the various stages and progressively (Stage by Stage) to get purified water which is stored in the inbuilt storage tank.

- Stage 1 - Sediment Filter

The 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 SCB filter.

- Stage 2 and Stage 3 - SCB Filter (Sediment and Carbon Block)

This is a dual filter (Sediment and Carbon Block) where Sediment filter removes physical contaminants present in the water. Then water is passed through Carbon Block, which reduces harmful chemicals like pesticides, volatile organic compounds, residual chlorine etc. It also absorbs bad taste and colour causing organic compounds from water.

- 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.

- Stage 5 and Stage 6 - SCM-TECH™ Silver Activated Post Carbon and MN-TECH™ (Mineralization Technology)

This filter is the combination of Silver Activated Post Carbon and MN-TECH™ (Mineralization Technology). Silver Activated Post Carbon acts as a polishing filter and enhances the taste of the water. MN-TECH™ contains Calcium and Magnesium minerals which help to improve the taste and quality of water. It also adds the required essential minerals back to water and balances the pH of water.

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 bill of lading 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 which is damaged when you inspect it, you must immediately notify the carrier or the delivery agent who delivered it to you.

OVER A CENTURY OF INNOVATION

A. O. Smith has an established name as a company that can make a difference. It has brought international quality standards to Indian water heater industry. The company came to India in 2008, with a revolutionary range of water heaters. It has raised customer expectations, and shown the industry how to meet them. The company now enters the water purifier industry, an industry poised and ready for change. You can look forward to a lot of excitement ahead.

CHANGING THE LOOK AND THE OUTLOOK OF THE WATER HEATER INDUSTRY

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WORLD’S NO. 1 MANUFACTURER OF WATER HEATERS

Manufactured by A. O. Smith India/Water Products Private Limited
Plot 303, Phase - I, EACIO Industrial Area, Harsha, Hanakapura Taluk, Ramanagara District, K. R. Ring Road – 110 065, India
Customer Care No: 1800-103-2468/1860-300-2468 • Website: www.aosmithindia.com
CIN: U75300KA2001PTC014020

User Manual

Precautions

- Do not operate before reading manual supplied with this product.
- This does not contain the full servicing procedures necessary for continued effective operation of the A. O. Smith RO Water Purifier.
- A. O. Smith India recommends only servicing by an authorised servicing centre. Always install, operate, implement the safety procedures and maintain this product as indicated in the A. O. Smith RO Water Purifier manual.

- Please store this user manual carefully for any future reference.
- This manual is a guide to good practice for operating and periodic maintenance of the A. O. Smith RO Water Purifier.

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- Do not accept any liability where these instructions have not been followed.

- WARNING

This indicates that the RO membrane or filters needs to be replaced.

- DANGER

This indicates flushing is in progress. Every time the water purification process is activated, the auto-flushing mechanism cleans the RO membrane. It enhances the life of RO membranes.

- Tank full indicator

This indicates that the Water Purifier tank is full.

- Auto flash indicator

This indicates flushing is in progress. Every time the water purification process is activated, the auto-flushing mechanism cleans the RO membrane. It enhances the life of RO membranes.

- Power ON indicator

This indicates that the system is in switch ON/Off condition.

- Filter change indicator

This indicates that the RO membrane or filters needs to be replaced.

- Water Purifier indicator

This indicates that the Water Purifier indicator is flashing, check feed water supply to the purifier.

FUNCTION OF INDICATORS (FOR X3 MODEL ONLY)

- Front Cover

- Tank Full Indicator

- LED Display*

- Tank Cover

- Reject Water

- Faucet

- Filter Change Indicator

- Push Button

- Water Purifier Indicator

- Bottom Cover

- RO Membrane

- RO Filter Housing

- RO Water Purifier

- RO Membrane Housing

- Filter Housing

- Cap

- Bottom Cap

- Button

- Push Button

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Electrical Diagram

Figure 4

Safety Precautions

Electrical Safety

Even though these products are designed and kept in accordance with safety standards in mind, there are certain Do’s and Don’ts which need to be followed while using these products.

Power plug must be used with a 230 V outlet. It is recommended to connect the product to the power supply only with the plug that is provided with the purifier. Do not pull out or touch power plug with wet hands to avoid electrical shock.

Troubleshooting

Problems Possible Cause(s) Solution

1. If the feed water is received before installation. Do not install the product if the TDS and hardness are more than that prescribed in the recommended feed water conditions (Refer Page 12).
2. Flush LED blinks RTC error. Switch OFF the Water Purifier and call Customer Care Centre.
3. Tank full LED blinks Over flow error. Switch OFF the Water Purifier and call Customer Care Centre.
4. Power LED blinks and unit is not functioning. Check feed water supply to the purifier. If problem still persists, switch OFF the Water Purifier and call Customer Care Centre.
5. Low pressure alarm is triggered indicating the system input water pressure is not in the required range. Check feed water supply to the purifier. If problem still persists, switch OFF the Water Purifier and call Customer Care Centre.
6. Product should be installed only by A. O. Smith Company Authorized 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 Authorized Service Technician.

Technical Specifications

Model
A. O. Smith X/X+(Ref. X)

Product Dimensions (H x D x W)
400 mm x 260 mm x 380 mm

Net Weight
6.5 lbs (approx.)

Gross Weight
10 lbs (approx.)

Flow rate**
Up to 15 litres per hour

Storage tank capacity
5 litres (approx.)

Purification technology
RO (Reverse Osmosis)

Pressure Rating***
5 psi to 30 psi

Power rating (Max)
48 Watts

Power voltage
150 - 300 VAC, 50 Hz

Input Voltage
110 - 120 VAC, 60 Hz

Pump type
Diaphragm pump, 24VDC, 0.26 Amps, LPS Pump

Material of construction
Food safe, non-toxic, engineering grade plastic

Membrane type
Thin film composite RO membrane

Membrane technology
6 Stage Purifying Technology
Sediment filter + SCB-TECH filter (Carbon block) + Side Stream RO + SCM-TECH filter (Silver Activated Carbon Filter) + MF-TECH

Membrane hardness
550 ppm

Iron
0.3 ppm (max.)

Turbidity
Up to 5 NTU

Total hardness
Up to 500 ppm

Total dissolved solids (TDS)
Up to 2000 ppm

Purity level
95% (approx.)

Flow rates depend on variable factors such as feed water pressure, feed water characteristics and condition of the membranes and filters.

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

*** Flow rate pressure: 0.5 bar; pressure reducing valve need to be installed at the feed line. This pressure is lower than 1 psi, a differential pressure filter needs to be installed. Since you buy them from A. O. Smith Company authorized service technician.

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

RECOMMENDED FEED WATER QUALITY

Parameter
Value

Total Dissolved Solids (TDS)
Up to 2000 ppm

Total hardness
Up to 500 ppm

Iron
Up to 0.3 ppm

Turbidity
Up to 5 NTU

Feed water pressure
5 psi to 30 psi

Feed water temperature
5°C to 45°C

Notice

* Discard the first cycle of pure water, before you start using it for consumption.

** Make sure to discard the water in the storage tank if you have not used the purifier for more than 2 days.

Figure 5

How to use

1. Turn ON the water connection through the ball valve.

2. Switch ON the power supply and press the power button of the purifier.

3. To dispense water from the storage tank, push and hold the water faucet lever.

4. To dispense water continuously, lift up the water faucet lever for the continuous water flow. To stop the water flow, pull down the water faucet lever.

5. To stop the water flow, pull down the water faucet lever to position 2, slowly and then to initial position. This avoids splashing of water.

Figure 5

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