

WALL-MOUNTED RO PURIFIER



USER MANUAL

Contact us : Toll Free Number: 1800-2-585858 Email: tataswach@tatachemicals.com Visit: www.tataswach.com



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Dear Customer,

Congratulations for bringing home the new Tata Swach Nova Silver RO!

Being the health minister of your home it is your conscientiousness to safeguard your family from water-borne diseases.

The new **Tata Swach Nova Silver RO Water Purifier** includes the advanced RO technology and Silver Action Inside which acts as a shield of purity. Its advanced features like user-friendly indicators, Tool-less front opening and Zero-contamination concealed storage tank ease your **Mission Swach Jal** by consistently providing clean and pure drinking water for your family.

This user manual will help you know your Tata Swach Nova Silver RO Water Purifier. For any assistance, we are just a call away @ 1800-2-585858

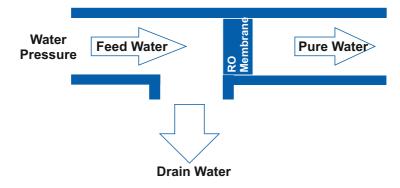
Tata Swach Team

2 THE TECHNOLOGY IN YOUR PURIFIER : RO

To fully understand the technology of Reverse Osmosis, it is a must to understand normal osmosis. Osmosis is a natural process that occurs in all living things. For instance, osmosis permits water and nutrients absorption through the root system of plants; similarly, nutrition is assimilated from blood to cells in human bodies. So, if a semi-permeable membrane separates a dilute solution and a concentrated solution, pure water will flow from dilute to the concentrated side and will try to balance the concentrations on both sides. This phenomenon is called Osmosis.

The RO membrane is not permeable to dissolved salts and only pure water can move across a RO membrane. If pressure is applied to the concentrated solution side, the flow of water across a membrane can be reversed. This phenomenon of moving pure water across a membrane from a high TDS solution is called as Reverse-Osmosis.

Hence in Reverse Osmosis, as the water exerts pressure on a semi-permeable membrane, the purified (or permeate) part enters through the pores of the membrane, while the rejected (or concentrate) is diverted to the drain. When the diameter of the pores is as low as 0.0001 microns, pure water and a little quantity of minerals (sodium, potassium, calcium, and magnesium, etc) can pass through; while other substances (such as dissolved solids, bacteria, viruses, metals, pesticides, chemical products, etc) are rejected during the process. This gives you clean and safe drinking water for consumption.



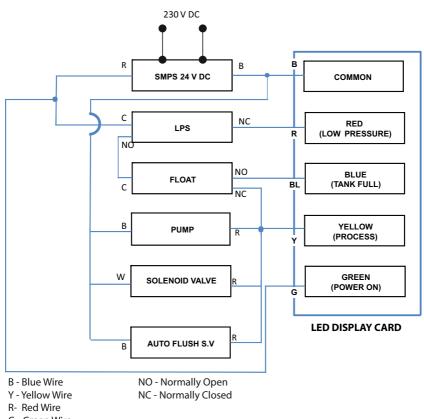
3 PACK CONTENTS

- 1. Tata Swach Nova Silver RO Water Purifier
- 2. 1 RO Membrane
- 3. User Manual

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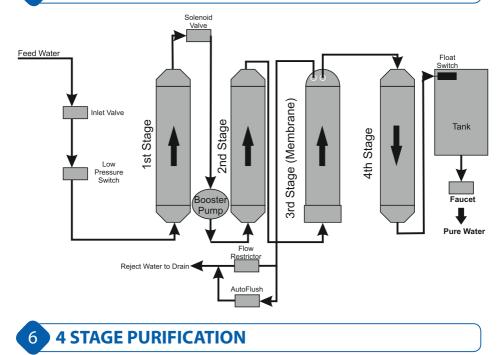
- 4. Installation accessories:
 - 2 Self Tapping Screws
 - 2 Plastic Anchor Plugs
 - Flexible Pipe, 1/4" OD
 - Kitchen Faucet Adaptor (KFA)

ELECTRONIC CIRCUIT DIAGRAM



- G Green Wire
- BL Black Wire

5 PURIFICATION PROCESS DIAGRAM



Stage 1: Sediment Filter Cartridge (Coarse)

This is the first filtration process which reduces/removes impurities from the inlet water. These impurities may be particles such as dust and sediments which are above 5 micron in size. The life of first sediment filter depends upon the inlet water quality. Recommended replacement cycle: 9 months*

Stage 2 : Bacteriostatic Granular Activated Carbon (GAC)

This GAC Cartridge reduces chlorine, bad taste and odour from the inlet water. It also reduces volatile organic compounds and pesticides from water. Recommended replacement cycle: 9 months/9000Ltr⁺

Stage 3: RO Membrane

This is the heart of your Tata Swach Nova Silver RO Water Purifier. This National Science Foundation (US)- NSF listed membrane has fine pores as low as 0.0001 micron in size to reduce water contaminants such as dissolved salts, pesticides, heavy metals and water borne micro-organisms such as virus, bacteria etc.

Dry membrane that comes with your system maximizes shelf life and is put in your system at the time of installation.

Recommended replacement cycle: 2 years[^]

Stage 4 : Bacteriostatic Granular Activated Carbon (GAC) with Silver impregnation technology

This Post Carbon GAC cartridge imparts bacterio-static property to the purified water and enhances the taste of water. The silver impregnation technology used in this cartridge ensures improved bacteriostatic performance for the entire life of the carbon capacity. This Silver Action Inside of the bacteriostatic GAC greatly reduces the chance of bio-fouling and hence increases life of carbon cartridge.

Recommended replacement cycle: 1 year/6000 Ltr⁺⁺

*If this cartridge chokes sooner than the recommended replacement cycle, it is advisable to install a pre-filter (available separately at a cost). To be noted that the life of 1st stage sediment filter depends upon the input water quality. Standard test conditions have ISO coarse A4 dust in water which is passed through the cartridge for 9000Liters at a pressure of 60psi.

⁺ The life of GAC cartridge depends upon the organics, chlorine, etc present in the input water supply. Under standard test conditions the life is measured as 9000 Litres with 2ppm chlorine water passing through the cartridge.

[^]Under standard test conditions of running the system at 10psi input pressure, TDS up to 750 PPM, turbidity less than 5 NTU and temperature of 25 C. Depending upon the inlet hardness and TDS levels the membrane may need to be replaced earlier than 2 years.

⁺⁺ The life of GAC cartridge depends upon the organics, chlorine, etc present in the input water supply. Under standard test conditions the life is measured as 6000 Litres with 2ppm chlorine water passing through the cartridge.



ADVANCED FEATURES OF YOUR TATA SWACH NOVA SILVER RO WATER PURIFIER

Purification Rate	8.0 Liters/hour **		
Auto Flush Mechanism	Automatic Membrane Protection		
Auto Low pressure cut-off	Automatic system switch off below 5 psi pressure in input water to avoid dry running of booster pump		
Inlet Water Switch off Mechanism	Blocks inlet water supply when no power is available to the system or system is not purifying		
Silver Action Inside	Silver Impregnation technology which imparts longer life to cartridge		
User-friendly Indicators	Provides intelligent information through its advanced indicators		
Zero Contamination Storage Tank	Saves you from the hassle of cleaning the tank		
Front Panel Opening System	Screw less front opening of the purifier makes servicing easy as it avoids dismantling the unit		
Voltage Spike Guard	Protects against power fluctuation		

**As per standard test conditions. 10 psi Input Pressure and 750 ppm TDS at 25° C.

8 USER FRIENDLY INDICATORS

Introduces you to Advanced / new era of modern & useful indications in an easy to understand way:

Sr. No	Application	Condition	Indication	
			Color	Status
1	System Power	Power On	Green	On
2	Purification On	Purifying	Yellow	On
3	Tank Status	Tank Full	Blue	On
4	System Fault	Low Pressure	Red	On

9 TECHNICAL SPECIFICATIONS

Product	TATA SWACH NOVA SILVER RO	
Application	Suitable for Purification of tap water upto 2000 TD and hardness below 500 ppm	
Purification Capacity	Upto 8L/hr**	
Body Material	ABS	
Туре	Wall Mounted	
Dimensions (H x W x D in mm)	440 x 392 x 240	
Inlet Water Pressure	Minimum - 5psi, Maximum - 35 psi	
Inlet Water Temperature	2°C to 40°C	
Stages	Sediment, Pre-Carbon, RO Membrane, Post Carbon	
Automatic Flushing System	Yes	
Weight	10.5 kgs	
Tank Volume	4 Liters	
Membrane Type	50 GPD TLC™(Thin Layer Composite)	
Booster Pump Voltage	24 V DC	
Mains Voltage	160 - 270 V AC	

**As per standard test conditions. 10 psi Input Pressure and 750 ppm TDS at 25°C.

10 GENERAL INSTRUCTIONS

While our Service Technicians are trained to follow the installation safety guide, it is imperative that you are aware of them.

- 1. Match the packaging list with the items in the box.
- 2. Always ensure that the Tata Swach Nova Silver RO purifier is installed by a trained technician.
- 3. Tata Swach Nova Silver RO purifier must be wall-mounted.
- 4. Do not install the purifier directly above an electric socket.
- 5. Ensure you use the plug provided with the purifier and do not change it unless recommended by Company's service technician.

- 6. The length of the water inlet hose must be shorter than 2 meters to ensure sufficient pressure is available to the machine.
- 7. Always connect with cold/normal water inlet only. Do not use with hot water.
- 8. Do not confine water purifier in a cabinet
- 9. Input water pressure needs to be between 5 PSI and 35 PSI. In case it is more than35 PSI, you need to use a "pressure reducing valve" and in case it is less than 5 PSI, you need to use a "pressure booster pump". Either can be bought from the market or from the Company technician at an additional cost.
- 10. Inlet water TDS should not exceed 2000 ppm. Hardness should not exceed 500 ppm.
- 11. Ensure the inlet and drain connections are properly connected and that the drain point is not blocked.
- 12. Avoid sharp bends in the connecting pipes ensuring inlet pipe and reject water pipe has free water flow path.
- 13. Avoid direct exposure to sunlight or humidity and ensure sufficient ventilation
- 14. Ensure waste/reject water pipe is connected to a drain point and water from reject water pipe is never consumed.

11 INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT YOUR TATA SWACH NOVA SILVER RO PURIFIER IS INSTALLED BY A TATA SWACH TECHNICIAN ONLY

Pre-Installation Requisites

- 1. 220V Single phase AC connection not more than 1.5m away from the point of installation of purifier. The wire length supplied with the system is 1.5m
- 2. Raw water supply with 1/2" nipple not more than 2m away
- 3. Drain for rejected water not more than 2m away
- 4. Space on the wall as per dimensions of the purifier
- 5. Wall/plane surface for mounting two screws and holding the machine.

Installation Instructions

- 1. Turn-off the main water supply before accessing the nipple for connecting the Kitchen Faucet Adaptor (KFA). Use Teflon tape on the threads of the Kitchen Faucet Adaptor to connect the pipe. Insert the KFA into the plumbing line and ensure threads are tightened. Depending on the plumbing connection, close the front end of the KFA using a tap. Insert the inlet pipe in the KFA in the push-fit Side. Double press the pipe to ensure leak-proof connection.
- 2. Open the front cover of the purifier by rotating the tap counter clockwise.
- 3. Take out both the GAC cartridges one-by-one and use the pipe attached to the KFA to flush with water for 30 sec. After flushing, connect both GAC back in to the system.
- 4. Connect the pipe to the inlet marked on the purifier. In case you choose to install an additional pre-filter (available at an additional cost), connect pipe to inlet of this pre-filter and connect the outlet of pre-filter to the inlet of purifier.
- 5. Dry RO membrane comes sealed in a pack (and not pre-fitted) with your system to maximize shelf life. Unpack and install the RO membrane.
- 6. Plug in the power supply and check for any leakages from any of the connectors or pipes. If leakage, then refit. If there is no leakage, close the front cover of the purifier.
- 7. Wait for a few minutes for the system to autoflush and then start filling the concealed storage tank.
- 8. Drain out first 15 to 20 liters of purified water from the storage tank.

Your Tata Swach Nova Silver RO is now ready for use. Familiarize your family members with operation and maintenance of the system.

If away from home:

If the purifier is not going to be used for more than 2 weeks, shut off the system and drain the stored water.



Electrical Safety

These safety instructions must be read carefully to ensure your safety and prevent property damage.

- 1. Ensure that the local voltage accords with the system voltage to prevent electric shock or fire.
- 2. Do not use a damaged power cord or plug, or a loose outlet.
- 3. Do not unplug by pulling the cord or handle the plug with wet hands. This may result in electric shock or fire.
- 4. Do not bundle the power cord tightly together, as it may cause damage. If the cord or plug is wet, unplug the unit and let it dry completely before subsequent use.
- 5. Unplug the unit before repair, inspection, or replacement to prevent any damage.
- 6. Do not plug into an outlet or power strip that is being used by several other appliances. Use a separate outlet for the unit to prevent fire.
- 7. Shut the main water supply valve and unplug the power cord when not using for a long time.
- 8. Do not attempt to repair the power cord yourself. Electric shock or fire may occur as a result.
- 9. Remove any dust or water particles on the plug. Never use benzene or gasoline to clean the plug. Electric shock or fire may occur as a result.
- 10. Do not move the product by pulling the electrical cord.
- 11. Do not clean the system with wet cloth when power is on. Use a moist cloth to clean the external surface of the purifier.

Operation Safety Instructions

- 1. If water leaks from the product, switch of the main supply, close the KFA and call the customer service.
- 2. If the unit makes a strange noise or you notice an odd smell, unplug immediately and call the customer service
- 3. Do not place candles, cigarettes or any other flammable objects on and around the purifier.
- 4. If you have not consumed water from the Tata Swach Nova Silver RO purifier for more than 2 days, drain the water from storage tank and refill for consumption.
- 5. Periodical cartridge replacement is a prerequisite for clean water. Use Tata Swach genuine (with Tata Swach logo) purifier products to maintain expected product life span and performance.
- 6. Flushing is necessary after any cartridge replacement.
- 7. Do not expose the unit to direct sunlight and high humidity environment. The optimal room temperature for the unit is 4 C-50 C.

3 FAQ / TROUBLESHOOTING

What is the storage capacity of my Tata Swach Nova Silver RO?

Tata Swach Nova Silver RO has tank volume of 4 liters. The process of filling the tank is fully automatic and when you take water out of the tank, the purification process automatically starts and refills the storage tank.

What is the purification rate of my Tata Swach Nova Silver RO?

Tata Swach Nova Silver RO can purify water up to 8 L/hr. However time taken to purify water depends upon the life of filters, the input water pressure, TDS and other impurities present in water.

Which consumables require periodic replacement?

Consumables such as the Sediment Filter cartridge, Pre and Post GAC cartridges & RO membrane need periodic replacement depending upon the service schedule. Please note that the life of the consumables is dependent on the input water quality.

What should I do when there is no purified water in the tank?

In case there is no purified water in the tank; you need to first check for any red indication on the user-friendly indicator. Please call Tata Swach Toll-free number 1800-2-585858 for change of cartridges or any other assistance required.

How long is the stored water in the Tata Swach Nova Silver RO safe to drink?

It is advised to drain out the stored water if not consumed within two days.

How can I use the reject water?

It is not recommended to use reject water for any kind of consumption. However you may use it for gardening or cleaning floors.

What should I do if any part of purifier gets broken?

Please call the Tata Swach Toll-free number 1800-2-585858. Our technician will visit your house and guide you on the repairs required. There will be a nominal visiting charge and all replacements shall be on a chargeable basis.

Can I open and service my Tata Swach Nova Silver RO?

It is not recommended to open and service the purifier yourself. Call our customer care if you face any issue which requires servicing or opening the purifier.

What should I do if the output water tastes unusual?

This might be because of one or more of the following reasons:

- Water is stored for too long in the storage tank. Please drain the stored water and fill fresh water.
- The filters/membrane need to be replaced. Call Tata Swach customer care and get them replaced or cleaned
- The input water quality has changed. This will lead to a sudden change in the output water taste. Please call the Tata Swach customer care to get your purifier checked.

What should I do if the purification is taking more time?

This might be because of one or more of the following reasons:

- The incoming waterline or the KFA is choked because of physical impurities in the incoming water. You can ask your plumber to check if this is the case.
- The temperature of input water might have dipped drastically (this will happen rarely)
- The filters may be choked or the membrane needs replacement

What should I do if the storage tank is not getting filled?

This might be because of one or more of the following reasons:

- Check if the system power is ON and the indication is GREEN.
- Check for any clogging in the incoming waterline. A RED indication will be there to show low pressure if this is the case.
- Check for leakages in the purifier and if found, call the Tata Swach Toll-free number: 1800-2-585858

WARRANTY POLICY

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Your new Tata Swach Nova Silver RO Water Purifier is warranted against material defects arising from workmanship for a period of 12 months from the date of invoice by the first end user, subject to following conditions:

- During this Warranty period, TATA CHEMICALS LTD (TCL) or its Authorized Service Provider (ASP) will replace or repair any part of the Tata Swach Nova Silver RO Water Purifier, that in the opinion of TCL or its ASP, arise due to faulty material or workmanship (i.e. manufacturing defects)
- 2. Tata Swach Nova Silver RO's consumables which are RO membrane, Sediment filter cartridge and GAC Cartridge are covered under one year warranty. Only one single replacement will be done for each of the consumables during the warranty period*. Every second replacement will be charged even though it may have to be changed in the warranty period.
- 3. The product's plastic body is not covered under Warranty and hence, it must be handled with care to guard against breakage during transit and usage.
- 4. The customer will notify TCL customer care promptly about any defects noticed and give the ASP adequate opportunity to inspect, test and remedy them, for which the customer will deposit the purifier if necessary with the company's service center along with original invoice, in the city where the product was purchased. Product so deposited for Warranty examination must be shipped freight prepaid.TCL will be entitled to repair/replace the defective part and retain the replaced part.
- 5. This Warranty is void if the unit is not installed by ASP and also if not operated under normal municipal/well water conditions or is subjected to the temperature above 35°C.
- This warranty is void if any kind of repair or alteration is done by customer or unauthorized service provider or for failures resulting from the lack of proper maintenance or faulty electrical conditions or non-usage of Tata Swach genuine spare parts.
- 7. Input water pressure needs to be between 5 PSI and 35 PSI. In case it is more than 35 PSI, you need to use a "pressure reducing valve" and in case it is less than 5 PSI, you need to use a "pressure booster pump". In case consumer chooses not to install the required, any replacement of damaged parts due to fluctuating input pressure shall be on chargeable basis.

*If assessed necessary by TCL or its authorised service provider.

- 8. TCL or its ASP shall not be held liable for claims exceeding the cost of repair of the defects in workmanship.
- 9. This Warranty Agreement shall not be interpreted to render TCL or its ASP liable for injuries or damages of any kind direct, consequential or contingent to persons or property.
- 10. TCL or its ASP shall not be held responsible by representative or buyer for failure to abide by any of the obligations of this Warranty Agreement if such failures are the result of circumstances of Forces Majeure: including but not limited to Acts of God like floods, earthquakes, etc or transportation strikes, labour disputes with outside suppliers or any other conditions beyond the control of TCL or its ASP.
- 11. TCL or its ASP cannot and shall not be held liable for any sickness or illness due to the consumption of drinking water from any water purifier supplied by TCL, since TCL or its ASP does not have any control over the quality of input water, maintenance of purifier and storage and consumption conditions of purified water.
- 12. This Warranty Agreement excludes all products/component parts or damage to any part of this water purifier which, in the opinion of TCL or its ASP, have been subjected to misuse, misapplication, negligence, alteration, accident or operation contrary to TCL instructions, or incompatibility with accessories not installed by TCL or its ASP, or that have been repaired with component parts other than those manufactured by or obtained from TCL or its ASP. In all such cases regular charges will apply. This limited Warranty does not include service to diagnose a claimed malfunction in this unit.
- 13. TCL reserves the right to alter or improve design and specifications of Tata Swach Nova Silver RO at any time, without any contingent obligations to prospective buyers or owners of the products previously sold.
- 14. Any disagreements and obligations based upon the purchase of Tata Swach Nova Silver RO products and thereby imposed on TCL or its ASP shall be governed by and construed according to the laws of India and subject to the jurisdiction of Mumbai Courts only.
- 15. In case of product related queries or complaints, kindly report the same on our Toll Free no. 1800-2-585858 or mail us at tataswach@tatachemicals.com.

15 WARRANTY CARD (to be filled by service provider)

Customer Copy		Company Copy		
Product Details		Product Details		
Model name -		Model name -		
Model Serial No		Model Serial No		
Customer Details		Customer Details		
Name - Telephone No Address -		Name - Telephone No Address -		
Email -		Email -		
Purchase Details		Purchase Details		
Retailer Name, City - Invoice No Invoice Date - Invoice amount -		Retailer Name, City - Invoice No Invoice Date -		
Installation Date -		Installation Date -		
Service Providers Details		Service Providers Detain Name : Address :	ils	
Address : Phone no.:		Phone no.:		
Customer Signature Pi	Service rovider's Stamp	Customer Signature	Service Provider's Stamp	
Marketed By: Tata Chemicals Ltd		Marketed By: Tata Chemicals Ltd		



Contact us : Tata Chemicals Ltd, Leela Business Park, Andheri-Kurla Road, Andheri(E), Mumbai-400059 Toll Free Number: 1800-2-585858 Email: tataswach@tatachemicals.com Visit: www.tataswach.com