

Aquaguard®

ASTOR RO+UV+MTDS
ALKALINE

pH 0

pH 1

pH 2

pH 3

pH 4

pH 5

pH 6

pH 7

pH 8

pH 9

USER MANUAL

PREREQUISITES FOR INSTALLATION

Product installation should be done only by a trained Eureka Forbes Service Technician only.

1. Input water must be tested for Total Dissolved Solids (TDS) and Total Hardness
 - Install the product in a dry ventilated place. Keep it away from direct sunlight, heating devices or areas below 10°C.
 - The purifier should be placed in area which is free of ants/insects/other pests.
 - Ensure that the input tap water temperature is in the range of 10° - 40°C. Avoid installation to a hot water tap as it can damage the filters.
2. The input water pressure to your water purifier should be within the recommended range (refer variant specific technical specifications table). If the input water pressure is more than specified, installation of a PRV (Pressure Regulating Valve)** is mandatory. If the input water pressure is less than specified, installation of an external booster pump** is recommended.
3. Ensure that the filters are flushed thoroughly and independently for 3-5 minutes to remove fine particles present in the filter, before the installation of the unit.
4. After installation, run the purifier for 5-10 minutes and drain the water.

Input water quality usage limitations:

1. If the input water iron content is more than that prescribed in the technical specifications, use of an iron remover** is recommended as a pre-treatment.
2. If the input water turbidity is more than that prescribed in the technical specifications or comprises colloidal particles, use of a special filter** is required as a pre-filter.
3. If the input water TDS is more than 1,000 ppm (mg/L) or input water hardness is more than 300 ppm (mg/L), use of a Membrane life enhancer** is recommended (applicable only for RO variants).
4. Do not install the water purifier if the TDS is more than that prescribed in the technical specifications.

**Available at an extra cost.

MTDS REGULATOR (Taste adjuster) OPERATING PROCEDURE

TDS modulator is located inside the product. As per factory setting, it comes in fully closed mode. TDS level of output water can be increased by slowly loosening the spindle of the TDS modulator (anticlockwise). Normally a slight quarter turn is enough to increase the TDS of the output water. Rotating the spindle in the clockwise direction closes the TDS modulator and reduces the level of TDS blending.

Please note that the TDS blending, and its adjustment is dependent upon the level of TDS of input water and on the TDS reduction capacity of the RO membrane. TDS adjustment should be done by the authorized Eureka Forbes technician only.

THE PROCESS OF PURIFICATION (For RO+UV+MTDS Variant)

Stage	Treatment	Materials	Benefits
1	i-Filter™	Multi-layered Polypropylene Roving Wound Cartridge	Removes fine suspended particles such as dust, dirt mud and sand from water.
2	Chemi-Block™	Dust-free Bacteriostatic Activated Carbon Block	Reduces excess chlorine and organic impurities. Also adsorbs bad taste and odour from the water.
3	Mineral Guard™	Micro Controller-based Electronic Impulse Producer	Prevents the deposition of dissolved minerals like Ca and Mg on the Quartz Tube of UV chamber, thus, enhancing the availability of minerals in water.
4	Membrane Life Enhancer***	Special Anti-scalant Media	Prevents scaling of dissolved salts on the surface of the membrane, thereby, enhancing the membrane life and performance.
5	Reverse Osmosis Membrane	Thin Film Composite (TFC) Reverse Osmosis Membrane	Reduces TDS, hardness, pesticides and heavy metals like arsenic, lead and mercury. Eliminates micro-organisms like bacteria, viruses, protozoa and cysts.
6	UV e-boiling™	Germicidal UV Lamp	UV disinfects the water by eliminating waterborne disease-causing bacteria, viruses and protozoa, thereby, making it safe to drink.
7	Alkaline Cartridge	Alkaline Media Combined with Activated Carbon	Alkaline cartridge instantly increase the pH and makes water alkaline. This cartridge also contains activated carbon which makes water safer, healthier and tastier by removing contaminants like VOCs.
8	Mineral Magnet™ cartridge	Patented multiple magnetic field (MMF) generating device	Breaks complex water molecules into fine micro-clusters, making water more bio-permeable, so that your body can easily absorb the goodness of water, along with its much needed nutrients.
9	TDS Regulator	Manual taste adjusting system	Adjusts the TDS of purified water to provide healthy water always.

***Not a part of the product, Membrane life enhancer is recommended if the input water TDS is more than 1,000 ppm (mg/L) or input water hardness is more than 300 ppm (mg/L). Available at extra cost.

TECHNICAL SPECIFICATIONS*

#	PARAMETER	SPECIFICATION
1	Model	AG ASTOR RO+UV+MTDS ALKALINE
PRODUCT SPECIFICATION		
1	Dimension (W X D X H)	320 mm X 278 mm X 476 mm
2	Net Weight	6.7 kg (Approx.)
3	Purification Technology	RO+UV+MTDS
4	Tank Capacity	6.2 Litres (approx.)
5	Standard Filtration supplied	i-Filter™, Chemi-Block™, Reverse Osmosis Cartridge, UV e-boiling™, Mineral Magnet™, TDS Regulator
ELECTRICAL SPECIFICATIONS		
1	Power Rating	45 Watts
2	Power Supply	Input 230V AC, 50 Hz.
3	Operating Voltage Range	150 VAC to 280 VAC, 50 Hz
4	UV Lamp Life	5,000 burning hours (as per UV lamp manufacturer spec.)
RECOMMENDED INPUT WATER PARAMETERS		
1	Input Water Pressure Range**	0.3 to 3.0 kg/cm ²
2	Iron Content (Max.)	0.1 mg/L
3	Chlorine Content (Max.)	0.2 mg/L
4	Input Water Turbidity (Max.)	5 NTU
5	Total Dissolved Solids (TDS) (max.)	Up to 2,000 mg/L ⁺⁺
6	Total Hardness (max.)	600 mg/L

*Technical Specifications are subject to change without prior notice.

Note: The performance data presented in the table is applicable under standard laboratory conditions[#]. Actual performance may vary depending on the input water quality, water pressure and condition of filters.

**If the pressure is higher than the maximum specified, use of a pressure reducing valve is mandatory.

++If the input water TDS is more than 1,000 ppm (mg/L) or input water hardness is more than 300 ppm (mg/L), use of a Membrane life enhancer is recommended.

The above accessories are available with our company at an additional cost.

The purification cartridges are designed to provide safe water for a period of 1 year or 6000 liters[#] from the date of installation whichever is earlier. Post the safe life, for your complete protection, the machine gives you an advance alert after which it shuts down the purification process and water dispensing.

Performance data sheets are available with Eureka Forbes Technical Documentation Centre.

Warranty void if the product is not installed as per recommendations.

#Standard Test Conditions:

Feed Water Quality: TDS Max: 750 mg/litres with NaCl Pressure: 1.0 kg/cm², Turbidity: Max.1 NTU, Temperature: 25°C, Chlorine: below 0.2 mg/litres, Iron: below 0.1 mg/litres. Pressure on membrane: 75psi. Product Recovery @ 25%. Depending on the input water quality (variations in the standard test conditions) the filter might need a replacement even before the purifier gives you an alert.

###Standard Test Condition of Alkaline Cartridge: Input water pH: 7.0 (+/- 0.2); TDS: 40 (+/- 10) mg/L; Flow rate: 250 ml/min; Temperature: 25°C

Under Standard test Conditions^{###}, the output water pH range is 7.5 - 8.5. Note: Performance of alkaline cartridge is applicable under standard test conditions of alkaline cartridge^{###}. Actual performance may vary depending on the input water quality, life of alkaline cartridge and RO element. Under certain input water quality conditions the pH of output water from alkaline cartridge can exceed 8.5 pH.

#Actual performance may vary based on the input water conditions - TDS, Pressure, Temperature & pH. Standard test Condition are valid for online water supply installation.

FUNCTION OF INDICATORS – LED DISPLAY

LEDs	Blue	Green	Red	Remarks
PARAMETERS	Power (BLUE)	Tank (GREEN)	Call Service (RED)	
Power ON	Solid ON	Solid ON	solid ON	Applicable for RO+UV, RO, UV models
Purification process	Solid ON	Blinks @ 0.5 seconds	OFF	Tank icon blinks for 6 seconds in RO+UV and RO models. Blinks for 30 seconds in case of UV models
Tank Filling Mode	Solid ON	Blinks @ 0.5 seconds	OFF	Applicable for RO+UV, RO, UV models
Tank Full Mode	Solid ON	Solid ON	OFF	Applicable for RO+UV, RO, UV models
UV Lamp error	Solid ON	OFF	Solid ON	Applicable only for RO+UV and UV models
SV error	Solid ON	OFF	Blinks @ 0.5 seconds	Applicable for RO+UV, RO, UV models
Pump error	Solid ON	OFF	Blinks @ 0.5 seconds	Applicable only for RO+UV and RO models
EA error	Solid ON	OFF	Blinks @ 0.25 seconds	Applicable for RO+UV, RO, UV models
Auto Safe not connected	Solid ON	off	Blinks @0.25sec for every 1 sec interval	Applicable for RO+UV, ,RO,UV models
Auto safe tampered fault	Blue and Green blinks alternately at 0.5 seconds		solid ON	Applicable for RO+UV, RO,UV models
Filter Tampered Fault	solid ON	**Green and Red blinks at 0.5 seconds		Applicable for RO+UV, RO,UV models
No water/Low water	Blinks at 0.25 seconds	OFF	OFF	Applicable for RO+UV, RO, UV models
Pre Alert (30 days prior to EOL)	Solid ON	Blinks for 5 times for every 5 sec interval	Solid ON	Applicable for RO+UV, RO, UV models
Alert (15 days prior to EOL)	Solid ON	Blinks for 5 times for every 2 sec interval	Solid ON	
EOL (At the end of the useful life of cartridges)	Solid ON	Blinks for 5 times for every 0.5 sec interval. Unit stops delivering water	Solid ON	
EOL: End of life				

CLEANING AND DISINFECTION OF WATER STORAGE TANK

Note: Storage tank of this product must be periodically (at least once in every 30 days) cleaned by a disinfectant. Disinfection Tablets may be purchased from the company authorised Service Centre. Please follow the disinfection process strictly as per the instructions as provided in this User Manual.

1. Drain the tank completely.
2. Switch OFF the water purifier from the main power supply.
3. Open the top cover, wipe the inside of the tank with a dry, clean soft cloth.
4. Keep the top cover in place.
5. Switch the power supply ON.
6. Let the storage tank gets filled and then drop one Disinfection Tablet* into the tank.
Caution: Keep the Disinfection Tablets out of the reach of children. Do not eat/consume the tablet.
7. Keep the top cover in place and leave the unit for 30 minutes.
8. After 30 minutes, open the tap and discard this and the first filling water completely. **Caution: Do not drink this water.**
9. Now your unit is ready to use. In case you notice any medicinal taste/smell, discard the tank of water fully & let it refill again.
10. Please ensure that this disinfection process is carried out by the authorised installation person/service technician during first installation and in every subsequent mandatory servicing of the product.

*Available with Eureka Forbes Service Technician

TIPS FOR SAFETY AND MAINTENANCE

- Read attentively and understand the purifier and its functions before use.
- Installation and service must be conducted by authorized person from Eureka Forbes Limited only.
- In case of any damage or incorrect functioning, immediately contact an authorized service center of Eureka Forbes Limited.
- The flushed out water from the RO system is not suitable for drinking. You can use that water for gardening or to clean floors (For applicable models only).
- Water storage tank must be periodically (at least once in every 30 days) cleaned using a disinfectant. (For applicable models only).
- Drain the water from the tank if it hasn't been used for over 48 hours. We recommend servicing by authorised person from Eureka Forbes Limited, during prolonged non-usage of your water purifier. Beyond usable life of the filters, it is recommended to replace with new ones.
- Ensure that the replacement of the consumable cartridges is done by a trained Eureka Forbes technician when end-of-life filter change indication appears.
- Ensure that the filter cartridges and spares used during service/replacement, are genuine and from EFL only.

RECYCLE & REUSE OF FLUSHED OUT WATER (applicable for RO variants only)

Water is a rapidly depleting resource. It is our moral responsibility to ensure that water is recycled as much as possible.

Flushed out water from a RO system is an unavoidable technology limitation. It maintains the performance of the purification process and the service life of the membrane also. Eureka Forbes has taken utmost care to minimize the water wastage in our RO system without compromising on the performance of the product.

The water flushed out by your Aquaguard® RO Water Purifier can be collected and used for several purposes.

Flushed Water can be used for :



Watering
plants



Daily household cleaning
tasks like mopping floors,
cleaning bathrooms,
kitchen sinks, etc.

Flushed Water cannot be used for :



Drinking



Washing clothes

A QUICK CHECKLIST

Problems	Checkpoints	Solutions
Water tastes bad	<ol style="list-style-type: none">1. Is the tank clean?2. Have you kept the purified water in the tank for too long?3. Is it time to change the filter?	<ol style="list-style-type: none">1. Clean the storage tank.2. Dispose of water and clean the tank.3. Call an authorised Eureka Forbes Service Technician.
Less water has been purified	<ol style="list-style-type: none">1. Is the tap water valve closed?2. Is the tap water pressure too low?3. Filters may be clogged or damaged	<ol style="list-style-type: none">1. Open the tap water valve.2. If so, the amount of purified water will be reduced.3. Call an authorised Eureka Forbes Service Technician.
Water doesn't flow into the storage tank	<ol style="list-style-type: none">1. Is there water available in the overhead tank?2. Is the main water supply tap closed?3. Not sure what is wrong?	<ol style="list-style-type: none">1. Ensure the overhead tank is filled with water.2. Ensure the tap is open.3. Call an authorised Eureka Forbes Service Technician.
Water is leaking	<ol style="list-style-type: none">1. Is water coming out of the top of the purifier?	<ol style="list-style-type: none">1. Close the tap water valve, unplug the power cord, and call an authorised Eureka Forbes Service Technician.

WARRANTY TERMS & CONDITIONS*

1. The Products are warranted against manufacturing defects for a period of twelve (12) months from the date of original purchase.
2. The Customer will notify the Company in writing promptly of any defects noticed and give the Company or its authorized agent adequate opportunity to inspect test and remedy them for which the Customer will deposit the goods at its own expense, if so, required by the Company with the Company's Office/Service Centre along with the original invoice in the city where they are sold.
3. The Inspection and Test Report of the company's office/service centre will be final and binding under the warranty for determining defects, repairs / alterations required or carried out or certifying work of the goods thereafter.
4. Aquaguard® may require initial setting, post-installation, depending on varying water conditions and power supply. In case of any service requirement, post-installation, please contact the company's service centre.
5. The company or its authorized agent will be entitled to retain any defective part replaced under the warranty.
6. Notwithstanding anything to the contrary contained or implied by this warranty:
 - a) The company's liability under this warranty shall be limited to the first sale of the goods by the company to the customer and will not apply or extend to any secondary sale of goods by the customer.
 - b) The company's liability under this warranty shall be limited only to defects in the goods which occur under the conditions of normal operation of the goods and their proper and prescribed use. The warranty does not cover or extend to defects which are determined by the company or its authorized agents as occurring or resulting from or attributable to negligence, abuse, misuse, faulty care, operation or maintenance or repairs, alterations to the goods or any part thereof by others or the use of the goods on electrical supply for which they are not designed, or damage caused by lightening or other electrical disturbances or interruptions, dismantling or re-installation at a different location.
 - c) The company's liability under this warranty shall remain valid only if the goods are duly installed by the company or its authorized agency at the location specified in the invoice and such installation is undertaken by the company or its authorized agent or franchisee.
 - d) Consumable are subject to normal wear and tear are not covered by this warranty. Please refer model specific components given in the user manual.
 - e) Reverse Osmosis Membrane warranty is for a period of 1 year (or) 6,000 litres (whichever is earlier) from the date of installation, on the condition that the input water is as per the standard test conditions for RO variants (provided in the section "Technical specifications table"), mentioned in the user manual. If the RO membrane gets clogged within warranty period, it will be cleaned/repaired/replaced free of charge as deemed fit by the company authorized service person/centre after inspection. (At applicable for RO models only.)
 - f) The customer will have no claim against the company, its employees and its authorized agents or franchisees under or pursuant to this warranty in respect of death or injury to the customer or any other person or loss or damage to any property caused by or due to equipment failure, breakdown or accident, fire or operation or utilization of the goods otherwise than in accordance with the user manual or by due to any other cause or circumstances beyond the control of the company.

WARRANTY TERMS & CONDITIONS*

g) The company's liability, under this warranty, shall in no event and under no circumstances exceed the price paid by the customer to the company for the goods stated in the invoice.

General

For the purpose of this warranty, the following expressions shall have the following meanings respectively:

1. The 'Goods' shall mean the goods described in the Order Form.
2. The 'Customer' shall mean the original purchaser of goods from the company.
3. The 'Company' shall mean EUREKA FORBES LIMITED.
4. Aquaguard means and includes Aquaguard® , Aquaguard® Select and Sure from Aquaguard®.
5. 'General Terms & Conditions' shall mean the terms and conditions agreed upon by the customer and the company printed on the Order Form.
6. 'Invoice' shall mean the invoice issued by the company to the customer describing the goods and indicating, inter alia, the total purchase price thereof and name of the customer.
7. 'User Manual shall mean the instructions for Installation, use and maintenance provided through QR code along with Product supplied by the company.
8. EFL reserves the right, in its absolute discretion, to change, alter or discontinue and alter the terms and conditions from time to time without any prior notice.
9. Any disputes are subject to Mumbai Jurisdiction only.

Post-warranty

1. The customer may be offered a yearly Service Contract at the prevailing company rates and terms.
2. In case the customer does not wish to enter the Service Contract, he has the option of calling the company's service centre having his Aquaguard® services on an actual basis, i.e., by paying the labour cost and spares needed to attend to that service/complaint call at the prevailing company rates. Such service will be rendered by the company in towns/places where the company has its service centres.
3. If during such servicing it is necessary for the company to replace or repair defective components or parts, the customer shall be required to pay for the same as per the company's prevailing price list.
4. Eureka Forbes limited reserves the right to offer annual maintenance contract/ensure availability of spares only up to 7 years from the date of invoice.

*Conditions apply.

ENVIRONMENT PROTECTION:

"Protection" has always been our motto and guiding principle. We care for the environment. We urge you to recycle the packaging material or take it to the nearest recycling facility rather than dispose it off with the rest of your waste. Your product has been designed to work for many years, however, should you wish to upgrade or replace your old product, remember to help protect the environment by disposing it off at your local e-waste disposal center. Should you have any queries, the nearest authorized service center of Eureka Forbes will be able to guide you. Allow us to become your environment partner; together we can make the world a cleaner place.

HEALTH PROTECT™

For your safety the specially designed and electronically authenticated purification cartridges of Aquaguard ensure our promise of 'pure & healthy water or no water' always. In the unlikely usage of a 'non-genuine' purification cartridge that could potentially deliver unsafe water - an indication light will draw your attention. For your complete protection, it even shuts down the purification process. The purification cartridges are designed to provide safe water for a period of 1 year or 6000 liters[#] from the date of installation whichever is earlier. Post the safe life, for your complete protection, the machine gives you an advance alert after which it shuts down the purification process and water dispensing.

#Standard Test Conditions. Depending on the input water quality (variations in the standard test conditions) the filter might need a replacement even before the purifier gives you an alert.



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