

# Aquaguard®

**DESIGNO RO+UV+MTDS**

**USER MANUAL**

# PREREQUISITES FOR INSTALLATION

## **Preparation:**

Before you install, check the following list of components to ensure that all parts are packed with your water purifier:

- 1) Storage Tank
- 2) Water Purification System
- 3) Faucet and Faucet Mounting Bracket
- 4) Installation Kit

## **Installation Instructions:**

- Install your water purifier in a dry, ventilated place, keeping it away from direct sunlight, heating devices or areas below freezing temperature.
- Connect it only to normal tap water. Filters can get damaged if connected to hot/cold tap water. 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.
- Make sure the purifier is installed within a distance of 1.0 m from the tap water supply. Do not install the purifier at a place where water or rain could leak into the unit (outdoors, etc.).

## **After this:**

- Determine the location for the faucet. Check to see that drilling of the faucet hole will not damage pipes or wires running underneath the sink.
- You can also use the faucet mounting bracket to mount the faucet on the wall.
- Determine the location for the storage tank. The maximum distance from the tank to the faucet is 5 feet. This is important, because the pressure tank will dispense water at a better flow if the tube length between tank and faucet is kept short.
- Do not place the unit where it will be exposed to freezing conditions and/or direct sunlight.

## **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.

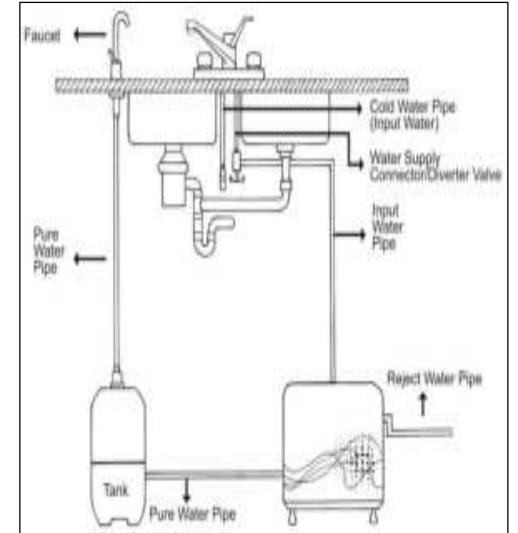
\*\*Available at an extra cost.

# INSTALLATION OF WATER SUPPLY CONNECTOR

Make sure that you hook up to the normal water tap. Determine the location for the installation of your water purifier. Ensure that a three-pin 230 V 50 Hz power is available nearby. Avoid locations where the system might come in contact with hot water pipes or direct sunlight.

## Mounting the Water Faucet

Your water purifier unit comes complete with a long reach faucet. The product water faucet may be installed on any flat surface, max. 1.5 inches in thickness. Check the inside of the location for interference.



The Aquaguard® Select Designo  
RO+UV+MTDS unit - Connection

# HOW TO OPERATE YOUR WATER PURIFIER

- Once the installation is completed by the authorized person from Eureka Forbes Limited, the product can be put to regular use.
- Ensure that an uninterrupted water and power supply to the product is available.
- Switch on the unit.
- The water purifier will start the purification process. To know the product status, monitor the indications provided on the product and refer to the LED display chart.
- To collect the purified water, turn the faucet lever to the open position. Whenever pure water is drawn from the unit, it will automatically start, fill the tank and cut off, thus ensuring that pure water is always available.

## 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	Active Copper Maxx™ With Zinc Booster Cartridge*	A patented technology with a unique combination of naturally occurring vital minerals like Copper and Zinc along with calcium and magnesium	Enhances the taste of the water and increases the level of essential minerals with add-on goodness of copper and zinc along with calcium and magnesium which helps in improved health and body functions. At the same time, balancing the pH of the water, making it healthy. *Copper and Zinc Infusion in adherence to IS 10500:2012 Drinking water specification (Acceptable limit)
8	Biotron™ 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.
8	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	AGS DESIGNO RO+UV+MTDS
<b>PRODUCT SPECIFICATION</b>		
1	Dimension (W X D X H)	195mm X 285mm X 275mm
2	Net Weight	10.2 kg (Approx.)
3	Purification Technology	RO+UV+MTDS
4	Tank Capacity	8 Litres (approx.)
5	Standard Purification supplied	i-Filter™, Chemi-Block™, Mineral Guard™, Reverse Osmosis Cartridge, UV e-boiling™, Active Copper Maxx™ with Zinc Booster Cartridge, Biotron™ Cartridge, TDS Regulator.
<b>ELECTRICAL SPECIFICATIONS</b>		
1	Power Rating	45 Watts
2	Power Supply	Input 230V AC, 50Hz
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.)
<b>RECOMMENDED INPUT WATER PARAMETERS</b>		
1	Input Water Pressure Range**	0.3 to 3.0 kg/cm <sup>2</sup>
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 <sup>++</sup>
6	Total Hardness (max.)	600 mg/L <sup>++</sup>

\*Technical Specifications are subject to change without prior notice.

Note: The performance data presented in the table is applicable under standard laboratory conditions<sup>#</sup>. 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 pressure is lower than the minimum specified, use of a Booster pump is recommended.

<sup>++</sup>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 for a safe life of 1 year or 6000 liters<sup>#</sup> from the date of installation whichever is earlier. Post the safe life, for your complete protection, the machine shuts down the purification process.

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/cm<sup>2</sup>, 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.

<sup>#</sup>Actual performance may vary based on the input water conditions - TDS, Hardness, Pressure, Temperature & pH. Standard test Condition are valid for online water supply installation. In suction mode, the product performance may be lower than the claims.

# FUNCTION OF INDICATORS – LED DISPLAY

PARAMETERS	LED INDICATION (1RGB)	Remarks
Power ON	Red, Blue and Green blinks one after other for 1 sec, Green solid ON for 5 sec	Applicable for RO+UV, RO, UV models
Purification process	Green Solid ON	Tank icon blinks for 6 seconds in RO+UV and RO models. Blinks for 30 seconds in case of UV models
Tank Filling Mode	Blue Blinks @0.5sec	Applicable for RO+UV, RO, UV models
Tank Full Mode	Blue Solid ON	Applicable for RO+UV, RO, UV models
UV Lamp Fault	Red Solid ON	Applicable only for RO+UV and UV models
SV fault	Red Blinks @0.5 sec	Applicable for RO+UV, RO, UV models
Pump fault	Red Blinks @0.5 sec	Applicable only for RO+UV and RO models
EA error	Red Blinks @0.25 sec	Applicable for RO+UV, RO, UV models
No water/Low water	Purple Solid ON	Applicable for RO+UV, RO, UV models
Pre Alert (30 days prior to EOL)	white Blinks for 5 times for every 5 seconds interval	Applicable for RO+UV, RO, UV models
Alert (15 days prior to EOL)	white Blinks for 5 times for every 2 seconds interval	
EOL (At the end of the useful life of cartridges)	white Blinks for 5 times for every 0.5 seconds interval	
Pre Boot	Blue Blinks @0.25sec	Applicable for RO+UV, RO, UV models
Auto Safe not connected	Red Blinks for 2 times for every 1 seconds interval	Applicable for RO+UV, RO, UV models
Auto safe tampered fault	Blue and Green blinks alternately at 0.5 seconds	Applicable for RO+UV, RO, UV models
Filter Tampered Fault	Green and Red blinks alternately @0.5 seconds	Applicable for RO+UV, RO, UV models

# CLEANING OF WATER STORAGE TANK

It is recommended to drain at least the first tankful of water immediately after the installation, and also when the unit is not in use for >48hours.

## MAINTAINING YOUR AQUAGUARD® UTC

- a. It is advisable to read the User Manual thoroughly, to understand the purifier's functions before usage.
- b. Installation and service has to be conducted by authorized personnel from Eureka Forbes Limited only.
- c. Install the purifier at a location that is properly ventilated, dry and away from heat and humidity.
- d. Connect the purifier to a 230 VAC power socket that is duly earthed.
- e. Discard about 10 liters of water after the installation or after replacing the filter cartridges.
- f. Do not remove or insert the plug with wet hands.
- g. Ensure that the filter cartridges and spares used during service/replacement are genuine and from Eureka Forbes only.
- h. Always switch off and disconnect the power plug before maintenance or cleaning.
- i. In case of any damage or incorrect functioning, immediately contact an authorized service centre of Eureka Forbes Limited. Do not try to carry out repairs on you own.
- j. The product is not to be used by children and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- k. Children should not play with the purifier.
- l. Simple maintenance and hygiene will help your Aquaguard® UTC function better.



## 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 :

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Watering  
plants



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

Flushed Water cannot be used for :

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Drinking



Washing clothes

# 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 for a safe life of 1 year or 6000 litres<sup>#</sup> from the date of installation, whichever is earlier. Post the safe life, for your complete protection, the machine gives you an advance alert, post which it shuts down the purification process.

**#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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