KENT Gold

UF Membrane Storage Water Purifier

Instruction Handbook for Installation, Operation and Maintenance.

System Tested and Certified by NSF International against NSF/ANSI Standard 53 for the Reduction of Cyst.

“System tested & certified by WQA to S-200 for the reduction of chlorine, taste and odor only, as verified and substantiated by test data.”

KENT UF Membrane Water Purifiers

HOUSE of PURITY
Dear Customer,

Welcome to the world of KENT, the leaders of water purification industry in India. With a KENT's product you have all the reasons to smile, since at KENT, we take pride in the quality and laboratory-tested performance of our products.

We are confident that your decision to own KENT Gold+ UF Membrane Storage Water Purifier will go a long way in serving you with safe and clean drinking water – thus keeping you and your family in good health. We assure you that you will be satisfied with its performance and quality, which comes without any compromise.

This manual is an effort towards familiarizing you with the operation and maintenance of KENT Gold+. Before operating the unit, please read it thoroughly and retain it for future reference. Should you need further assistance or information, do not hesitate to contact your nearest KENT dealer or branch.

Best wishes,

KENT RO SYSTEMS LTD.
KENT warrants all new products manufactured by it to be free from defects in material and workmanship under normal usage and service from the date of purchase as under:

1. The Warranty period commences from the date of purchase by the first end-user. The product may consist of several parts and different parts may be covered for a different warranty period. During this period of one year from the date of purchase, KENT or its Authorised Service Provider will replace or repair any part of the KENT water purifier, that in the opinion of KENT or its Authorised Service Provider, would be defective in operation due to faulty material or workmanship (i.e. manufacturing defects) with the exception of consumables such as Sediment Filter, Carbon Filter and UF Membrane. However, if the UF Membrane gets clogged within first six months, it shall be cleaned / repaired / replaced at no extra charge.

2. The product’s plastic body is not covered under the Warranty and hence, it must be handled with care to guard against breakage.

3. Customer can avail services under Warranty at the point of sale, by producing the damaged part(s) along with the original invoice.

4. This Warranty Agreement shall not be interpreted to render KENT or its Authorised Service Provider liable for any injuries or damages of any kind, direct, consequential, or contingent, to persons or property.

5. KENT or its Authorised Service Provider shall not be held liable for claims exceeding the cost of repair of the defects in workmanship.

6. KENT or its Authorised Service Provider 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 Majeures: such as, but not limited to, floods, earthquakes, transportation strikes, labour disputes with outside suppliers, or any other conditions beyond the control of KENT or its Authorised Service Provider.

7. KENT or its Authorised Service Provider shall not be held liable for repair or alterations made without prior written approval; for products clogged by suspended matter, precipitates, or biological growth; or for failures resulting from the lack of proper maintenance.

8. Product returned to KENT or its Authorised Service Provider for Warranty examination must be shipped freight prepaid.

9. KENT reserves the right to alter or improve design and specifications at any time, without any contingent obligations to prospective buyers or owners of the products previously sold.

10. Any disagreements and obligations based upon the purchase of KENT products, and thereby imposed on KENT or its Authorised Service Provider, shall be governed by and construed according to the laws of INDIA and subject to the jurisdiction of Delhi Courts only.

11. KENT or its Authorised Service Provider 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 KENT, since KENT or its Authorised Service Provider does not have any control over the maintenance and usage of the water purifier.

12. This Warranty Agreement excludes all products/ component parts or damage to any part of this water purifier which, in the opinion of KENT or its Authorised Service Provider, have been subjected to misuse, misapplication, negligence, alteration, accident or operation contrary to our instructions; incompatibility with accessories not installed by KENT or its Authorised Service Provider; or that have been repaired with component parts other than those manufactured by and / or obtained from KENT or its Authorised Service Provider; or damage caused by freezing, flood, fire, or Act of God, are not covered by this Warranty. In all such cases, regular charges will apply. This limited Warranty does not include service to diagnose a claimed malfunction in this unit.

13. This Warranty is void if the claimer is not the original purchaser of the unit or if the unit is not operated under normal municipal water or well water conditions.

14. KENT or its Authorised Service Provider assumes no Warranty liability in connection with this water purifier other than that specified herein. This Warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. KENT or its Authorised Service Provider does not authorize any person or representative to assume for them any other obligations on the sale of this water purifier.

15. Under no circumstances are the terms mentioned above negotiable, and no employee of KENT or its Authorised Service Provider has the authority to supersede the terms mentioned above.
<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction</td>
<td>5</td>
</tr>
<tr>
<td>2. Items in the box</td>
<td>5</td>
</tr>
<tr>
<td>3. Salient features</td>
<td>6</td>
</tr>
<tr>
<td>4. Technical specifications</td>
<td>6</td>
</tr>
<tr>
<td>5. Know your KENT Gold+</td>
<td>7</td>
</tr>
<tr>
<td>6. Exploded view of KENT Gold+</td>
<td>8</td>
</tr>
<tr>
<td>7. Important instructions</td>
<td>9</td>
</tr>
<tr>
<td>8. Filtration process</td>
<td>9</td>
</tr>
<tr>
<td>9. Setting up your KENT Gold+</td>
<td>10</td>
</tr>
<tr>
<td>10. Maintaining your KENT Gold+</td>
<td>11</td>
</tr>
<tr>
<td>Part 1:- Cleaning the UF Membrane</td>
<td>11</td>
</tr>
<tr>
<td>Part 2:- Cleaning the water tanks</td>
<td>12</td>
</tr>
<tr>
<td>Part 3:- Cleaning the Sediment &amp; Carbon Filters</td>
<td>12</td>
</tr>
<tr>
<td>Part 4:- Replacing the Sediment Filter</td>
<td>13</td>
</tr>
<tr>
<td>Part 5:- Replacing the Carbon Filter</td>
<td>13</td>
</tr>
<tr>
<td>Part 6:- Replacing the UF Membrane</td>
<td>14</td>
</tr>
<tr>
<td>Part 7:- Restoring your KENT Gold+ (when leaving for long vacations)</td>
<td>15</td>
</tr>
</tbody>
</table>
Introduction

Presenting the all new KENT Gold+ UF Membrane Storage Water Purifier, which provides you and your family with safe and clean drinking water. With innovative KENT Gold+, dependence on electricity and usage of chemicals to obtain pure drinking water are now problems of the past.

At the heart of KENT Gold+ is a state-of-the-art Hollow Fiber UF(Ultra Filter) Membrane. This Membrane effortlessly removes suspended impurities as well as bacteria (certified by Toray, Japan) and cysts (certified by NSF International) to generate clean and safe drinking water.

Items in the box

Please verify the following items in the packaged box:

1. Outer Tank (transparent) 1 no.
2. Inner Tank (transparent) 1 no.
3. Bottom Stand 1 no.
4. Top Cover 1 no.
5. Top Lid 1 no.
6. Carbon Assembly with Inlet Funnel 1 set
7. Hollow Fiber UF Membrane Cartridge 1 no.
8. Spare Sediment Filter 1 pair
9. 50ml Cleaning Syringe 1 no.
10. Y-Fork 1 no.
11. Tap 1 no.
12. Instruction Manual 1 no.
Salient Features

- Ideal for Tap water or Municipal Corporation water supply.
- Use of Hollow Fiber Ultra Filtration (UF) Membrane filters bacteria (certified by Toray, Japan) as well as reduces cysts (certified by NSF International). Cysts are deadly pathogens that cannot be removed by most non-electric storage water purifiers.
- No use of chemicals such as Chlorine, Bromine or Iodine for purification, thereby providing healthier and tastier drinking water.
- Use of nano-Silver impregnated Carbon Filter for better contaminant reduction of water.
- Designed with a high Bottom Stand so that a glass can be filled easily and the purifier is not required to be placed at the edge of a table/slab.
- High storage capacity of 20 litres, to provide purified water on demand.
- Food grade plastic construction for trouble-free maintenance and a long life.

Technical Specifications

<table>
<thead>
<tr>
<th>Manufacturer Details</th>
<th>KENT RO Systems Ltd. A-2, Sector-59, Noida, U.P.- 201 309, India Ph.: +91-120-3075075 <a href="mailto:sales@kent.co.in">sales@kent.co.in</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>KENT Gold+ UF Membrane Storage Water Purifier</td>
</tr>
<tr>
<td>Model No.</td>
<td>1049</td>
</tr>
<tr>
<td>Mounting</td>
<td>Table Top</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H (540mm), W (360mm), D (380mm) - (when assembled)</td>
</tr>
<tr>
<td>Inner Tank storage capacity</td>
<td>10 litres (Approx.)</td>
</tr>
<tr>
<td>Outer Tank storage capacity</td>
<td>10 litres (Approx.)</td>
</tr>
<tr>
<td>Membrane type</td>
<td>Hollow Fiber Hydrophilic UF Membrane</td>
</tr>
<tr>
<td>Filters</td>
<td>Sediment, Granule Activated Carbon, SS (Stainless Steel) Screen</td>
</tr>
<tr>
<td>Expected life of UF Membrane</td>
<td>4000 litres</td>
</tr>
<tr>
<td>Maximum Operating Water Temperature</td>
<td>35 °C</td>
</tr>
<tr>
<td>Filtration Capacity</td>
<td>0.31 litre per minute (under standard testing conditions)</td>
</tr>
<tr>
<td>Usage</td>
<td>The system should be used only with cold water.</td>
</tr>
</tbody>
</table>

WQA Performance Data: This system has been tested according to S-200 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in S-200.*

<table>
<thead>
<tr>
<th>Substances</th>
<th>Minimum Percent Reduction</th>
<th>Average Percent Reduction</th>
<th>Influent Challenge Concentration (mg/L)</th>
<th>Maximum Permissible product water concentration (mg/L)</th>
<th>Average Influent Concentration (mg/L)</th>
<th>Average Effluent Concentration (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alachlor</td>
<td>85%</td>
<td>87%</td>
<td>0.04 + 10%</td>
<td>0.002</td>
<td>0.04</td>
<td>0.001</td>
</tr>
</tbody>
</table>

*Gold filters are certified by WQA to S-200 for the reduction of chlorine, taste and odour only, as verified and substantiated by test data.*

NSF Performance Data
This system has been tested under NSF/ANSI 53 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 53.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Influent Challenge concentration (mg/L)</th>
<th>Reduction requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyst</td>
<td>minimum 50,000/L</td>
<td>99.95%</td>
</tr>
<tr>
<td>Percentage of Cyst Reduction after testing</td>
<td>99.99% reduction</td>
<td></td>
</tr>
<tr>
<td>(Though testing was performed under standard laboratory conditions actual performance may vary.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6 KENT RO SYSTEMS LTD.
Exploded view of KENT Gold+

- Top Lid
- Inlet Funnel
- Sediment Filter
- Nano Silver Carbon Filter
- SS Screen
- Carbon Filter Housing Cap
- Top Cover
- Inner Tank
- Fitting
- UF Membrane Cartridge
- Outer Tank
- Tap
- Bottom Stand
Important Instructions

1. Avoid exposure to direct sunlight, as overheating can damage the purifier's plastic body.
2. Do not confine the purifier in a cabinet.
3. Keep both the storage tanks clean. Properly wash and rinse them with pure water once in a week.
4. Clean the Sediment and Carbon Filters at least once in a month. Frequency can be increased depending on the quality of raw water.
5. Backwash the UF Membrane at least once in a month. Frequency can be increased depending on the quality of raw water.
6. Replace the Sediment Filter every 3 months.
7. Replace the Activated Carbon Filter every 6 months/1800 litres.
8. Replace the UF Membrane every 12 months.
9. At the time of installation, note down the next due date for change of Filters and Membrane (as advised in instructions 6-8 above) on the sticker placed on the rear side of the purifier. This will help you keep track of the time to change the respective parts.
10. The system should be used only with cold water.
11. Any disagreements and obligations based upon the purchase of KENT products and thereby imposed on KENT or its ASP shall be governed by and construed according to the laws of INDIA and subject to the jurisdiction of Delhi Courts only.
12. For all the replacement element such as Sediment Filter, Carbon Filter, UF Membrane etc., kindly contact authorised dealers of KENT RO Systems Ltd. Or Customer Care as per the address given on the back of the booklet.
13. Replacement of spare parts are as under:
   SPARE CODE : 1871
   DESCRIPTION - Kent Gold Spare Kit
   1596  SP UF Membrane KENT Gold : 1Pc
   1688  SP Activated Carbon 190 gm. : 1Pc
   1700  SP Sediment Filter KENT Gold : 1Pair
14. Do not use water that is microbiological unsafe or of unknown quality without adequate disinfection before or after the system. System certified for Cyst reduction may be used on disinfected waters that may contain filterable cyst.

Filtration Process

Tap water or Municipal Corporation water supply is filled in the 10 litres Inner Tank. Water while being filled, passes through the Sediment Filter which reduces the suspended impurities. It then passes through the Silver impregnated Carbon granules, which reduce organic/chemical impurities such as Chlorine, bad taste and odour.

The filtered water gets collected in the Inner Tank, and then percolates down through the UF Membrane into the Outer Tank. During this process, most of the bacteria (certified by Toray, Japan) and cysts (certified by NSF International) are removed and only cleaner & safer drinking water is allowed to pass through. The purified water gets collected in the Outer Tank, ready to be dispensed when required.
Setting up your KENT Gold+

Open the box and remove the parts. Tally the contents with the 'Items in the Box' list (page no. 5). Wash all the plastic parts with clean water and wipe dry with a clean cloth before assembling.

1. Place the Bottom Stand on a flat surface
2. Assemble the Tap on the Outer Tank
3. Place the Outer Tank above the Bottom Stand
4. Take 50 ml of pure water in the syringe and inject it into the Membrane Cartridge (opposite to the direction of flow) to soak the new membrane
5. Push-fit the UF Membrane by pressing into the fitting of the Inner Tank. NOTE: Be careful to insert the UF Membrane opposite to the direction of water flow.
6. Place the Inner Tank with UF Membrane on the Outer Tank
7. Place the Top Cover on the assembled tanks
8. Before installing the Filter Assembly, wash it under running tap. Shake, if required, to remove Carbon particles from the new Filter
9. Place the Filter Assembly on the top of the Tank
10. Place the Top Lid on top of the Tank Assembly
11. Tighten the Top Lid by pressing it down and rotating clockwise
12. The purifier assembly is now ready
• Once assembled, fill the inner tank with water. Wait till the filtration is complete.

• Drain the water collected in the Outer Tank, initially. This water should be drained even if all parts have been washed thoroughly before installation.

• Refill the Inner Tank, when empty.

• To refill the purifier, twist the Top Lid and remove it. Pour the raw water slowly into the Inlet Funnel, ensuring that water does not spill.

• After filling the Inner Tank, close the Top Lid.

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**Maintaining your KENT Gold+**

**Part 1: Cleaning the UF Membrane**

1. Remove the Inner Tank
2. Turn the Inner Tank upside down
3. Place it on a horizontal surface; Take 50 ml of pure water in the given syringe. Fit the syringe into the opening of Membrane Cartridge and slowly inject water from syringe into the cartridge (back-flushing). Perform this step once. Repeat if required.

**Frequency**

• The UF Membrane should be cleaned at least once in a month. However, if the water flow from Inner Tank to the Outer Tank reduces markedly, Membrane can be cleaned even earlier.

• It is essential to change the UF Membrane once in a year.
Part 2: Cleaning the Water Tanks

1. Remove the Inner Tank
2. Place it under a running tap or pour water from a jug, and shake to clean
3. Keep it aside
4. Now, remove the Outer Tank
5. Place the Outer Tank under a running tap or pour water from a jug, and shake to clean
6. Re-assemble all the parts.

Frequency: Both the Water Tanks should be cleaned once in a week.

Part 3: Cleaning the Sediment & Carbon Filters

1. Remove both the Sediment & Carbon Filters
2. Place them upside down
3. Pour sufficient water to clean both the Filters
4. Pressure clean the Funnel under running tap water.

Frequency: Both Sediment & Carbon Filters should be cleaned once in a month.
Part 4: Replacing the Sediment Filter

1. Twist off and separate the Filter Housing from the Inlet Funnel.
2. Remove the old Sediment Filter.
3. Fix the new Sediment Filter.
4. Screw back the Filter Housing and the Inlet Funnel together.

Frequency: The Sediment Filter should be changed after every 3 months.

Part 5: Replacing the Carbon Filter

1. Unscrew the bottom cap of the Filter Housing.
2. Empty the old Carbon granules on a sheet of paper.
3. Pour the new Carbon granules from a pack of genuine KENT consumables.
4. Tighten the bottom cap of the Filter Housing. Wash the new Carbon Filter (shake if required) under a running tap to remove used Carbon particles from the new Carbon granules.

Frequency: The Carbon Filter should be changed after every 6 months/1800 litres.
Part 6: Replacing the UF Membrane

1. Remove the Inner Tank
2. Place it upside down

3. Pull up with one hand
   - UF Membrane
   - Collet
   Press down with the other hand
   - Y-Fork

Press the Collet down with the help of Y-Fork. With the Collet pressed down, pull up the Membrane Cartridge.

4. Take 50 ml of pure water in the syringe and inject it into the Membrane Cartridge (opposite to the direction of flow) to soak the new Membrane

5. Press it down in collet

Press down the new Membrane Cartridge and fix it to the Inner Tank.
Note: Be careful to insert it opposite to the direction of water flow.

Frequency: UF Membrane should be changed every year.
Part 7: Restoring your KENT Gold+ (when leaving for long vacations)

1. Remove the Top Lid by pressing it down and rotating anti-clockwise.
2. Remove the Filter Assembly.
3. Remove the Top Cover from the Inner & Outer Tank Assembly.
4. Remove the Inner Tank.
5. With the help of Y-FORK, press the collet down and pull up the Membrane Cartridge.
6. Remove the Membrane Cartridge.
7. Take off the Inner Tank from the partition.
8. Unscrew the tap of the Inner Tank.
9. Wipe dry all the plastic parts inside-out with a clean cloth. Re-assemble the dry purifier.

Frequency: Purifier should be restored, when going on a vacation for more than 7 days.