



KENT
Water Purifiers

KENT SMART PLUS

Purification by UV+UF+Alkaline+Copper

User Manual



With Benefits of
**Alkaline
&
Copper**

KENT TECHNOLOGY

UV+UF+Alkaline+Copper



KENT
Water Purifiers

Marketed by:
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Made in India

Kent Deta Hai
**Sabse
Shudh Paani**

Welcome to KENT

Dear Customer,

At the outset, allow us to thank you for your trust in **KENT** water purifiers. We take pride in our reputation for product quality and industry proven performance. We are certain that your decision to own **KENT SMART PLUS** water purifier will go a long way towards keeping you and your family in good health. We are confident that you will be satisfied with its performance and that it will serve your need for safe and clean drinking water.

This guide will help you get the best out of your water purifier. Please go through this booklet to familiarize yourself with its operation and maintenance.

You can look forward to years of trouble free service. contact your nearest KENT dealer or branch.

Best Wishes

KENT RO SYSTEMS LTD.

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Introduction

KENT proudly presents KENT Smart Plus - the new advanced fully automatic UV purifier with storage tank.

The innovative **KENT Smart Plus**, developed at KENT laboratory, provides the double purification of UV+UF+Alkaline+Copper. While the initial purification by UV deactivates bacteria and viruses, the double purification by fine pores of Hollow Fibre UF membrane reduces them from the purified water. It also makes water alkaline (8.0+ pH) & infuses it with the goodness of Copper.

Salient Features

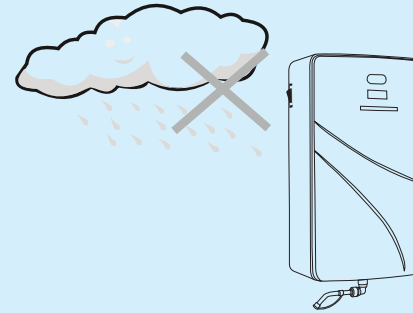
- Wall mounted design-best suited for domestic purpose
- Double purification, first by Hollow Fiber UF membrane followed by UV-filters out bacteria, virus and even cysts
- Makes alkaline water (8.0+ pH) & infused with goodness of Copper
- Fully automatic operation with auto-on and auto-off facility
- LED indicators for power on and purification process on display
- Tamper-proof UF Membrane fused inside membrane housing
- Push-fit components give leak-proof and maintenance-free performance
- Mounted SMPS for over voltage protection
- ABS material construction for corrosion-free life span
- Ideal for Tap/Municipal water supply (preferably low TDS water)
- UV fail alarm which beeps if the Inline UV is non-functional

Your Water Purifier and its Parts

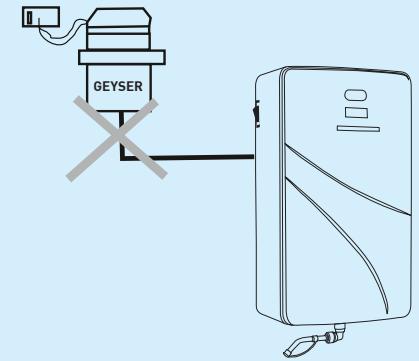
Please check the following items in the packaged box:

- | | | |
|-------------------------------------|---|------------|
| 1. KENT SMART PLUS Water Purifier | : | 1N |
| 2. 3-Way Connector | : | 1 N |
| 3. S.S. Ball Valve | : | 1N |
| 4. Food Grade Pipe 0.635 Cm (White) | : | 2.5 Meters |
| 5. Screws & Plastic Inserts | : | 2N each |
| 6. Sticker Center Drill | : | 1N |
| 7. Warranty Card | : | 1N |

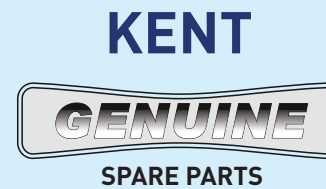
Important Instructions



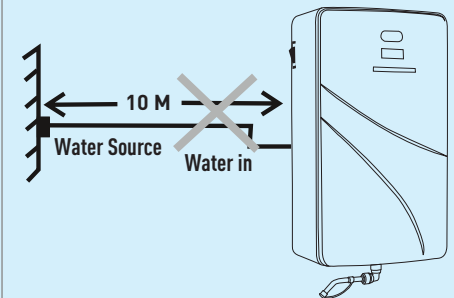
Avoid exposure to direct sunlight and installation in damp areas.



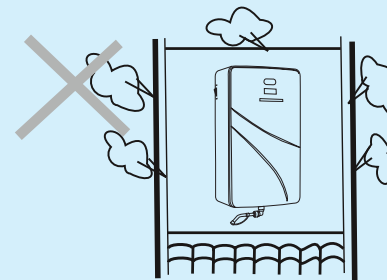
Make sure that the purifier is connected to cold water supply only.



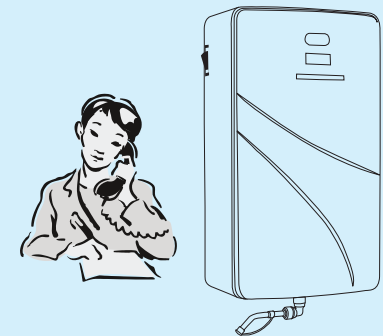
Use Genuine Kent spares for optimum performance



The maximum distance between the raw water source and the purifier should not be more than 3 meters.



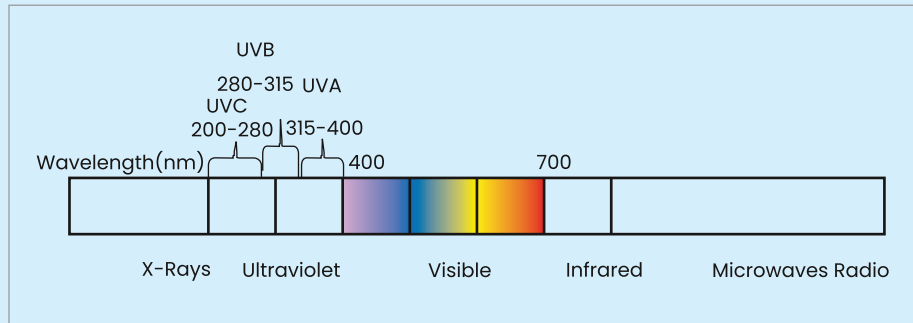
Do not confine the purifier in any kind of cabinet.



Do not try to service the product on your own. Instead, call service technician for help.

UV Process

The UV light has shorter wavelength (higher energy) than the visible light. Since it comes after the violet light in the light spectrum, it is termed as ultraviolet light. Technically, the wavelength of ultra violet is shorter than 400 nanometer, so it is also termed as electromagnetic radiation. UV-C rays (photons) penetrate into micro-organisms and directly get absorbed in the DNA content of the pathogen. Finally, the DNA is modified in such a way that it stops further reproduction of the organism.



Stages of Water Treatment

Following are the stages of water treatment:

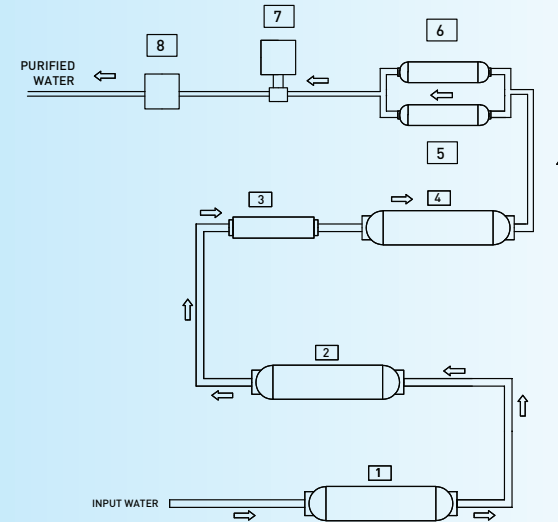
- Stage 1 : Inline Sediment
- Stage 2 : Inline Carbon
- Stage 3 : UV Chamber
- Stage 4 : PostCarbon

UV Fail Alarm

KENT SMART PLUS has an inbuilt alarm that goes on when the UV Lamp stops drawing sufficient current from the power source. With the help of this unique feature, the user knows whether the UV Lamp is working properly or not. In such circumstances, kindly switch off the purifier and call service technician for help.

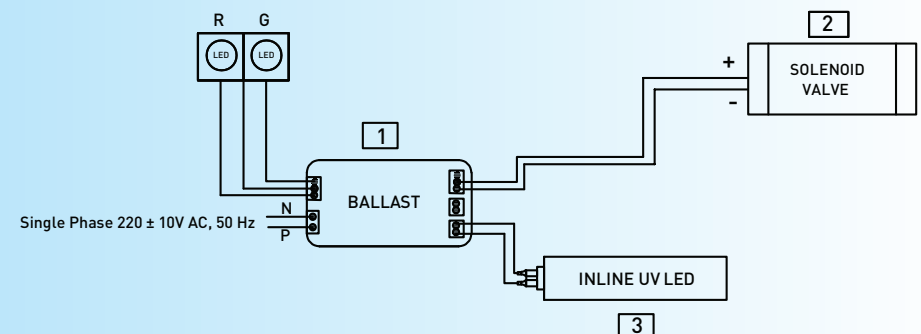
Water Flow Diagram

S.NO.	SPARE PART CODE	ITEM DESCRIPTION
1	200010	SEDIMENT FILTER
2	200009	ACTIVATED CARBON FILTER
3	202640	INLINE UV LED
4	200004	UF MEMBRANE
5	201878	POST CARBON+COPPER
6	200575	POST CARBON+ALKALINE
7	200028	SOLENOID VALVE
8	200437	TDS CONTROL VALVE



Electrical Circuit Diagram

S.NO.	SPARE PART CODE	ITEM DESCRIPTION
1	607176	ELECT. BALLAST MAXX PLUS
2	200028	SOLENOID VALVE
3	202640	INLINE UV LED



Installation Instructions

The **KENT SMART PLUS** Purifier is a product of advanced technology that ensures safe and clean drinking water. The purifier is easy and convenient to install.

Recommended Site Preparations:

- Single phase 220 ± 10 V AC, 50 Hz, connection not more than 3 meters away from the point of installation.
- Raw water supply with ½ inch nipple, not more than 3 meters away from the point of installation.
- Space as per dimensions of the purifier.
- Wall/plane surface for mounting two screws and holding the water purifier.
- The system and installation must comply with applicable state and local laws & regulation.

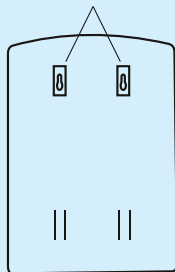
Special Instructions:

1. **KENT SMART PLUS** is a wall mountable purifier. Make sure that it is only mounted on a wall. Avoid installation on wooden and metallic stands.
2. It is preferable to install the purifier near a sink so that raw water supply is easily available.

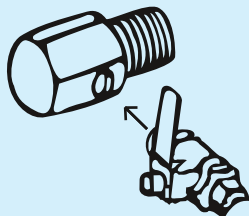
Installation Procedure:

1. Screw in the two 10x50 self tapping screws (supplied with the package) on a same horizontal level at a distance of 120mm from each other in the wall.
2. Carefully hang the purifier on the wall with the help of wall mounting slots present on the back side of the purifier as shown in the figure below.

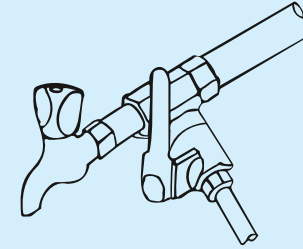
Mounting Slots



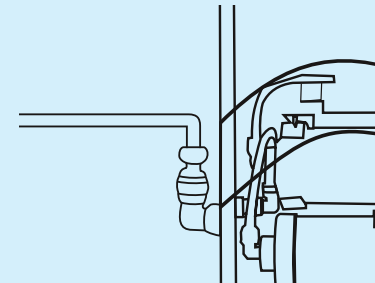
3. Fix the SS ball valve to the inch port of the 3-way connector as shown in the figure.



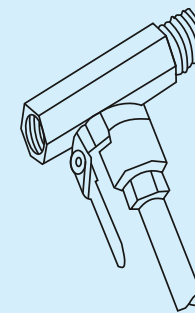
4. Connect the 3-way connector to the raw water supply as shown in the figure. The threaded end of the 3-way connector is fitted in line with the raw water supply. The other end can be connected to a tap or can be plugged off if not required.



5. Connect one end of the white pipe to the SS ball valve and other end to the lower hex connector on the left hand side of the purifier, which is labeled as **WATER IN** with the help of connector nuts.



6. Before connecting the electric supply, it is important that you perform the following functions:
 - (i) Open the SS ball valve (Handle parallel to the ball valve) to start the flow of water into the purifier.



- (ii) Wait for 2-3 minutes to ensure that the two pre-filters are soaked in water.

Starting-up the Purifier

1. Remove the front cover of the water purifier.
2. Switch on the electrical supply and the power switch of the water purifier.
3. Check the flow rate of the purified water. For effectiveness of the UV treatment, the flow rate of the purified water should not be more than 1 LPM. Adjust the flow rate of the
4. purified water by adjusting the needle control valve.
5. Once the desired flow rate is achieved, switch off the power supply and put back the front cover.
6. The purifier is now ready for use.

Maintenance Tips

To ensure that the purifier operates at its optimum level, a routine maintenance must be performed. The frequency of the maintenance will greatly depend on raw water quality and consumption of purified water.

- Replace sediment and activated carbon filter after every 12 months, depending on the raw water quality and consumption.
- UV should be replaced once a year.
- If the purifier is not going to be used for a long time (in case you are on a holiday, tour or out of home), make sure that you disconnect the power supply and turn off the raw water supply.

Technical Specifications

Product	KENT Smart Plus
Product Code	111188B
Product Generic Name	Water Purifier
Colour	Black
Net Weight	2.95 kg
Body Material	ABS
Mounting	Wall Mounting
Purification Production Rate	1 L/min (60 L/hr.)
Dimensions (mm)	240(L) x150(W) x 400 (H)
Inlet Water Pressure/Temp.(min./max.)	0.3 kg/cm2/10°C - 4 kg/cm2/40°C
UV Wattage	≤ 2.5 W
Life of UV	5000 hrs. of operation
Total Power Consumption	30 W
Input Power Supply	Single Phase 220 ± 10 V AC, 50 Hz. ☐
IP Rating	IPX1

Note: KENT RO Systems Limited is registered under the Plastic Waste Management (PWM) Rules, 2022 with EPR authorization No. BO-29-UTT-04-AADCK0743L-23 (Brand Owner) & IM-20-000-09-AADCK0743L-23 (Importer) for Category-II plastic packaging (thickness above 50 microns).