HEALTHY DROPS

NEED BASED SOLUTION

Manufactured & Marketed by

KNL Trading Co. (ISO 9001:2015 Certified)

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HEALTHY DRINKING WATER

The world health organisation (WHO), United States Environmental Agency (EPA), Bureau of Indian Standard (BIS) and many other prominent institution working regularly on the drinking water. Their recommendations must be taken seriously and accordingly the TDS (total dissolve substance in PPM per litre) of drinking water is remain in excellent condition up to 300 ppm. The above range tends to poor quality for drinking. http://www.who.int/water_sanitation_health/dwq/chemicals/tds.pdf Plz note less than 100 ppm is considered low mineral water. Calcium, Sodium, Magnesium, copper, potassium cations, carbonate, hydrogen carbonate, chloride sulphate are the constituent of TDS and also known as essential mineral in drinking water. We intake 5% to 10% minerals from drinking water fo fulfill our body needs, so always keep drinking water mineralised.

According to Dr Stephen T. Sinatra (M.D, F.A.C.C, F.A.C.N, C.N.S, C.B.T (source https://heartmdinstitute.com/heart-health/how-ph-affects-health/) low pH drinking water on long run may damage arteries, increase LDL (bad cholesterol) which causes cardiac arrest, weakening immune system, diabetes etc. Ideal pH value of drinking water is pH 7.2 to pH 8, as per WHO above pH 8.5 is not acceptable and may cause several diseases.

Water Borne Diseases: Polio, E-coli, Hepatitis A, Flue, Cholera, Scabies, Typhoid, Anaemia, Botulism, Arthritis, Joint Pain, Fluorosis, Trachoma, Hepatitis, Diarrhea, Giardiasis, Ascariasis, Trichuriasis, Arsenicosis, Malnutrition, Legionellosis, Leptospirosis, Schistomiasis, Dracunculiasis, Onchocerciasis, Lead poisoning, Cryptosporiodiosis, Campylobacteriosis, Lymphatic filariasis, Hookworm infection, Ring Worm or Tinea, Methaemoglobinemia, Cyanobacterial toxins, Japanese encephalitis etc. and many other diseases associated with water. (source https://www.disabled-world.com/health/water-diseases.php).

Healthy drinking water functions energy sources, creates electricity in the cells, function as glue with the cells, prevent DNA damage, improve immune system, dissolve minerals that we consume, change food to energy, helps minerals to absorb quickly, carries minerals to the organs and entire body quickly, improve blood cell functions, remove impurities through liver & kidney, helps joint spaces and prevent from arthritis, prevents from constipation, reduces heart attack & strokes, electricity to brain, improve sleep etc. and much more.

TDS pocket pen meter is used to check the hardness/minerals in water and pH reagent drops to ascertain the pH value in water by matching colour chart.

Choose right technology according to your need

MODEL NO.	TDS RANGE (PPM)	OBJECTIVES	WATER WASTAGE
KNL-UVUF-AR	**UP TO 150**	Disinfect bacteria/virus, removes (smell & odor, clay, dirt, sand, pesticides, herbicide, toxity, chlorine & other impurities), enhances drinking water taste, regulate pH value and adds esential minerals	**No Wastage**
KNL-NF40	**150 - 350** NF Membrane Rejections 40% Pore size 0.001 µ	Eliminates all bacteria/virus, removes (smell & odor, arsenic, clay, dirt, sand, pesticides, herbicides, toxicity, chlorine & other impurities), ehances water taste, rejects water hardness around 40% to 48%	**Almost (55-60)%**
KNL-NF40-AR	**150 - 300** NF Membrane Rejections 40% Pore size 0.001 µ	Eliminates all bacteria/virus, removes (smell & odor, clay, dirt, sand, pesticides, herbicides, toxicity, chlorine, arsenic & other impurities), ehances water taste, rejects water hardness around 40% to 48%, adds minerals & regulate pH value of drinking water	**Almost (55-60)%**
KNL-NF60-AR	**300 - 600** NF Membrane Rejections 60% Pore size 0.0005 µ	Eliminates all bacteria/virus, removes (smell & odor, clay, dirt, sand, pesticides, herbicides, toxicity, chlorine, arsenic & other impurities), ehances water taste, rejects water hardness around 60% to 68%, adds minerals & regulate pH value of drinking water	**Almost (60-65)%**
KNL-NF80-AR	**600 - 1400** RO membrane Rejections ≥ 80% Pore size 0.0001 µ	Eliminates all bacteria/virus, removes (smell & odor, clay, dirt, sand, pesticides, herbicides, toxicity, chlorine, arsenic & other impurities), ehances water taste, water hardness rejection rate ≥ 80%, adds minerals & regulate pH value of drinking water	**Almost (70-75)%**
KNL-ROHT-AR	**1400 - 3000** RO membrane Rejections ≥ 94% Pore size 0.0001 µ	Eliminates all bacteria/virus, removes (smell & odor, clay, dirt, sand, pesticides, herbicides, toxicity, chlorine, arsenic & other impurities), ehances water taste, rejects water hardness up to (93-96)%, adds minerals & regulate pH value of drinking water	**Almost (75-80)%**

4.5 5.0 5.5 5.75 6.0 6.25 6.5 6.75 7.0 7.25 7.5 8.0 8.5 9.0

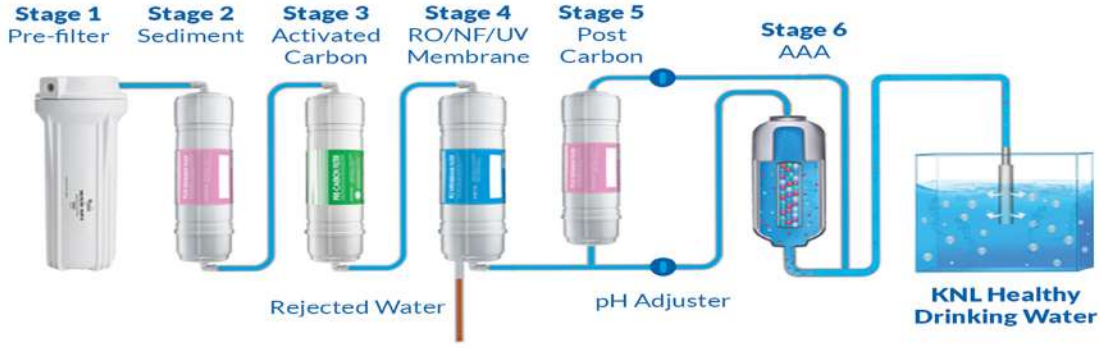
Ideal condition of drinking water is 100 ppm to 260 ppm & Alkaline between pH 7.5 to pH 8

KNL Healthy Drops - water purifiers:

- *Food grade/ABS plastic cabinet*
- *Wall mount, elegant & modern*
- *13 ltrs transparent storage tank*
- *Easy detachable/restorable tank*
- *Designed in user friendly manner*
- *Standard size inline cartridges*
- *Pocket friendly annual maintenance*
- *Power & tank full separate indicator*

- *Sediment Filter (5 micron absolute): made from polypropylene (resistant to bacteria) & fine sediment cloths. It captures suspended matter such as sand, silt, loose scale, clay and other organic material*
- *Activated Carbon Block Filter (1000 IV): the cartridge absorbs/reduces pesticides, herbicides, toxicity, chlorine, arsenic and other impurities from water.*
- *Activated post carbon (coconut shell carbon): removes odor, smell, and enhances water taste. The smart design serve the dual purpose of UF membrane & post carbon filter. Made from ABS/Food grade plastic.*

KNL Healthy Drops water flow diagram:



- *Booster pump 100 GPD*
- *Input range 140-300 volts*
- *Output 24 volts, 2.5 amp*
- *Consume15/45 watts/hr*
- *UV/NF40/NF60/RO Membrane 100/80 GPD*
- *Usual life 10,000 ltrs to 15,000 ltrs*/12-15 months*
- *Cartridges life up to 12,000 ltrs / 12 months*
- *PP Spun filter replacement at 4-5 months*

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KNL TFC Dry Membrane & Spares:

KNL-NF40 Membrane 100 GPD

NF membrane TFC-Dry-100 GPD, pore size 0.001 µ, ISO 9001:2015 certified. Rejection rate around 40%, maintains minerals 60% in drinking water naturally. Designed for soft/ corporation water (150 ppm to 350 ppm).

KNL-NF60 Membrane 100 GPD

NF membrane TFC-Dry-100 GPD, pore size 0.0005 µ, ISO 9001:2015 certified. Rejection rate around 60%, maintains minerals around 40% in drinking water naturally. Designed for moderate hard water (300 ppm to 650 ppm)

KNL-NF80 Membrane 100 GPD

NF membrane TFC-Dry-100 GPD, made in combination of NF and RO membrane sheet, pore size 0.0005 µ & 0.0001 µ, ISO 9001:2015 certified. Rejection rate ≥ 80%, maintains minerals up to 20% in drinking water naturally. Suitable for raw water tds between 600 ppm to 1400 ppm

SMPS (Adapter) converts ac current to dc current. Voltage input range 140 v - 300 v, output 24 v, 2.5 amp, built in food grade plastic, best & first grade of circuit and in heavy transformer. Designed in best quality range considering the voltage fluctuation prblem with one year of warranty.

Built in 100% copper armature, 100 GPD, Maximum Pressure 120 PSI, Minimum Inlet Pressure 10 PSI, Nominal Flow rate greater than 1.7 LPM, working pressure 80 PSI, Suction capacity 2 mtrs, operated on 24 volt, 1.2 amp. Very low noise and very low viberation with one year of warranty.

1) PP Spun Filter (5 micron, 10"): Made from polypropylene which is resistant to bacteria, captures particles (clay, sand, color, dust etc.) those remain in size of 5 micron or above in raw water.
2) Prefilter Housing: Made from ABS/ Food grade plastic with good finishing and in standard size.
3) Membrane Housing: (Size standard, double o ring): Made from ABS/ Food grade plastic with heavy strength.

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IMPORTANTANT NOTES:

1) Size details in micron: 1) Water molecule size 0.000282 µ, 2) water born virus & germs size lies between 0.01 µ to 5 µ, 3) Arsenic, fluoride, cyanide, lead & other VOP sizes remains greater than 0.005 µ (approx). 4) Sodium chloride molecule size 0.0007 µ, 5) Calcium Carbonate size 0.0009 µ, 6) toxicity, herbicides, chlorine, and other impurities is being captured by activated carbon depends on absorption rate and their sizes normally remain greater than 0.001 µ, 7) UF Membrane (hollow fiber with good quality) pore size 1 µ, 8) Micro Filtration Membrane pore size 0.01 µ, 9) TFC Nanofiltration Membrane (NF Membrane) 0.001 µ & 0.0005 µ & 10) TFC RO membrane pore size 0.0001 µ.

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2) TDS adjuster/Controller: A mechanism to pass certain portion of water after carbon filter through UF membrane and UV Barrel and then mixed with RO membrane purified water to maintain TDS (minerals) in drinking water is called TDS adjuster/controller. UF membrane (with pore sieze 1 µ) can't capture water born virus but only captures clay & dirt particles from water. The UV lamp deactivates the DNA of these germs (but virus size is too small and radiation remain unable to deactivate DNA of virus) and therefore cannot grow further but goes into drinking water. The UV can't eliminate VOP, arsenic, cyanide, bromide, fluoride, pesticides, toxicity, herbicides etc if these impurities exist in your raw water. Today our surroundings are full of pollution, chemicals and other impurities and therefore greater chance of existence of these impurities in raw water too. And therefore this technology is not much worthy and may add impurities back into drinking water if exist in raw water. Therefore suitable membrane technology according to raw water is much valuable/important and beneficial over TDS adjuster/UV technology.

NF/RO (TFC Dry Membrane): The TFC dry NF/RO membrane rejection rates varies depending upon the design and quality. We have focused on 4 categories of membrane to cover the wide range of raw water hardness compositions. We use 1) NF membrane (pore size 0.001 micron), rejection rate 40% to 45%, 2) NF membrane (pore size 0.0005 micron), rejection rate 60% to 68% & NF membrane with rejection between 80% to 90% & RO Memrane rejection rate above 95%. These four categories of membrane are used according to raw water hardness.

Ultra Violet Barrel & lamp: We use only SS 304 grade stainless steel. On the other hand stainless steel is not reactive with water and radiation in any manner but aluminum may do, consequently leaches aluminum oxide in drinking water. The aluminum oxide is not considered safe for health and brain. So better to avoid Aluminum UV barrel. The UV lamp emits radiation and when the microbes comes into the range, the radiation deactivates the DNA and therefore the germs can't grow further but goes into water tank. The water born life of bacteria is not more than 24 hours and after that it dies. The UV can't eliminate/captures VOP, arsenic, lead, fluoride, bromide, chlorine etc from water if exist in raw water. Therefore NF/RO membrane is more safe/secure than UV technology if the water passed only through the membrane.

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