



HEALTHY DROPS

NEED BASED SOLUTION

Manufactured & Marketed by
KNL Trading Co. (ISO 9001:2015 Certified)

Please visit www.knlhealthydrops.com
to get the genuine and original spares/filters which is
economical too from retail market

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We manufacture, assemble and trade in electric operated domestic water purifiers and its spares/accessories under brand name **KNL Healthy Drops and KNL**. Today, market is flooded with confusingly numerous water purification systems. They are expensive and follow “a one size fits all” formula. Water is essential for life. We get 5% to 10% minerals of daily intakes through water. Apart from minerals the healthy drinking water improves immune system, dissolves minerals that we consume, helps minerals to absorb quickly, carries minerals to the organs and entire body, improves blood cell functions, removes impurities through liver & kidney, helps joint spaces, prevents from arthritis, prevents from constipation, prevents DNA damage, reduces heart attack & strokes, provides ion to brain, improves sleep and much more.

Therefore, KNL team has worked hard to develop domestic electric operated water purification technologies that offer safe and healthy drinking water instead of pure water. Please note pure water is mineral free which is not advisable for drinking.

Based on the TDS, we offer different models of electric operated water purifier for each category that provides healthy, mineral enriched and safe drinking water to the users.

TDS – (total dissolve substance in water/liquid)

Calcium, Magnesium, Potassium, sodium, zinc, copper, iron, carbonate, chloride, sulphate etc. are the components of TDS. TDS is not impurities but contents of minerals. We take 5% to 10% of required essential minerals via drinking water and the rest from our daily diets. Therefore it is necessary to drinking safe & mineral enriched water.

The ideal drinking water as per WHO, EPA and other scholars should be free from infections/germs & harmful contaminants and must be mineral enriched. The water minerals range 150 to 300 ppm remain in excellent & also known as mineral water with acceptable pH range pH 6.5 to pH 8.5 but (ideal pH 7.2 to pH 8.2) is in best range.

Water taste mainly depends on TDS and a little on pH value. The user who are addicted with RO water or demineralised bottle water may experience hard water taste for the mineral range 150 ppm to 300 ppm. As the TDS increases, the hard water taste increases proportionately. But in couple of week the taste would develops.

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

According to Dr Stephen T. Sinatra (M.D, F.A.C.C, F.A.C.N, C.N.S, C.B.T) low pH drinking water on long run may damage arteries, increase LDL (bad cholesterol) which causes cardiac arrest, diabetes, hypertension etc. So it is better to keep pH of drinking water within safe range i.e. pH level between **pH 7.2 to pH 8.5 max**. This range is also within EPA and WHO guidelines.

Please note high alkaline water or acidic water both are not safe to drink in long run. User may experience slower metabolism, acidity, gassy etc.

Reference: <https://heartmdinstitute.com/heart-health/how-ph-affects-health/>

KNL PRO MODEL SERIES



1. Material ABS, food grade and BPA free
2. Wall mount/counter top/table top
3. Transparent storage tank, capacity 10 liters
4. Space in the back side for 6 standard-sized filters
5. Tank full, purifying, and power LED displays
6. Insect proof > 60 microns
7. **Less than 50 microns are invisible to the naked eye.**

KNL ECO MODEL SERIES



1. Material ABS, food grade and BPA free
2. Wall mount/counter top/table top
3. Easy detachable Storage tank, capacity 9 liters, easy to clean & maintain
4. Space in the back side for 5 standard-sized filters
5. Purifying and power LED displays
6. Insect proof > 100 microns
7. **Less than 50 microns are invisible to the naked eye.**

KNL REGULAR SERIES



1. Material ABS, food grade and BPA free
2. Wall mount/table top may be managed
3. Easy detachable Storage tank, capacity 13 liters, easy to clean & maintain
4. Space in the back side for 6 standard-sized filters
5. Purifying and power LED displays
6. Insect proof > 300 microns
7. **Less than 50 microns are invisible to the naked eye.**



MEMBRANE BASED TECHNOLOGY

BARC NF or RO membrane



KNL PRO SERIES

MODELS	FEATURES	INPUT TDS RANGE	REJECTION RATE
KNL PRO NF20 AR	PH REGULATOR + SS UV, 7 STAGE	(100-200) PPM	20% (\pm 5%)
KNL PRO NF40 AR	PH REGULATOR + SS UV, 7 STAGE	(200-350) PPM	45% (\pm 5%)
KNL PRO NF60 AR	PH REGULATOR + SS UV, 7 STAGE	(350-600) PPM	65% (\pm 5%)
KNL PRO NF80 AR	PH REGULATOR + SS UV, 7 STAGE	(600-1200) PPM	80% (\pm 5%)
KNL RO AR	PH REGULATOR + SS UV, 7 STAGE	(1200-3000) PPM	96% (\pm 3%)

KNL ECO SERIES

MODELS	FEATURES	INPUT TDS RANGE	REJECTION RATE
KNL ECO NF20	NF 20 MEMBRANE + SS UV, 6 STAGE	(100-200) PPM	20% (\pm 5%)
KNL ECO NF40	NF 40 MEMBRANE + SS UV, 6 STAGE	(200-350) PPM	45% (\pm 5%)
KNL ECO NF60	NF 60 MEMBRANE + SS UV, 6 STAGE	(350-600) PPM	65% (\pm 5%)
KNL ECO NF80	NF 80 MEMBRANE + SS UV, 6 STAGE	(600-1200) PPM	80% (\pm 5%)
KNL ECO RO	RO MEMBRANE + SS UV, 6 STAGE	(1200-3000) PPM	96% (\pm 3%)

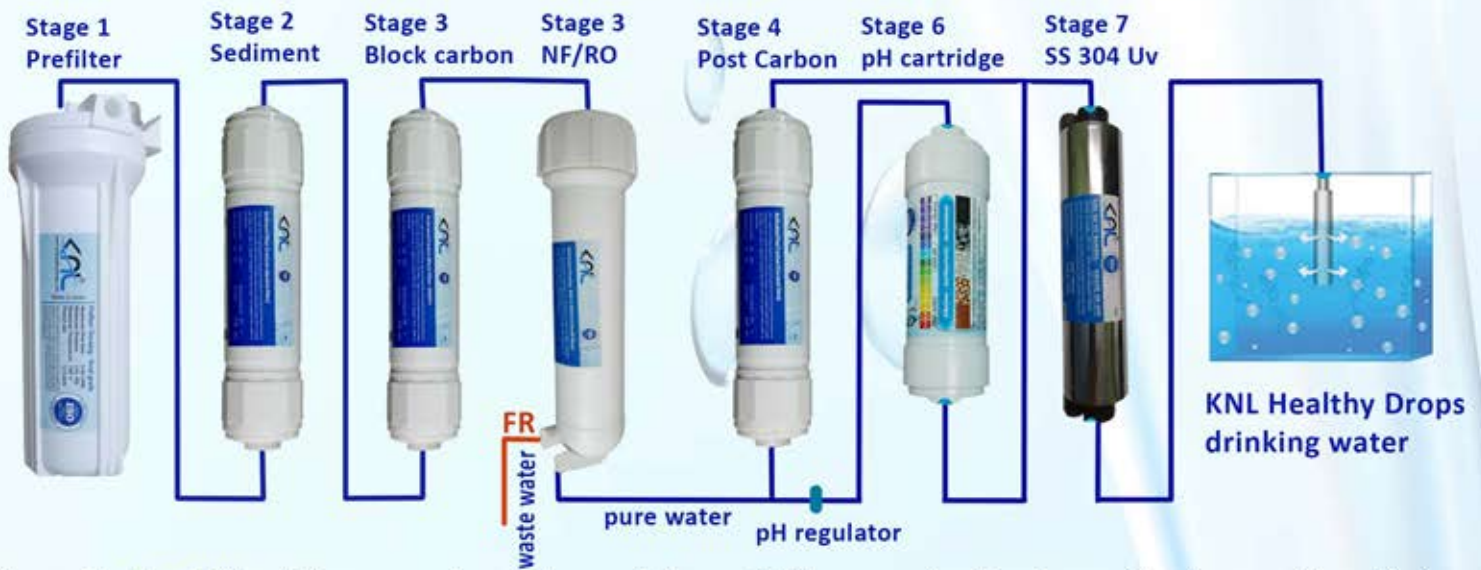
KNL REGULAR SERIES

MODELS	FEATURES	INPUT TDS RANGE	REJECTION RATE
KNL NF20	NO PH REGULATOR + NO UV, 5 STAGE	(100-200) PPM	20% (\pm 5%)
KNL NF20 AR	PH REGULATOR, NO UV, 6 STAGE	(100-200) PPM	20% (\pm 5%)
KNL NF20 AR UV	PH REGULATOR + SS UV, 7 STAGE	(100-200) PPM	20% (\pm 5%)
KNL NF40	NO PH REGULATOR + NO UV, 5 STAGE	(200-350) PPM	45% (\pm 5%)
KNL NF40 AR	PH REGULATOR, NO UV, 6 STAGE	(200-350) PPM	45% (\pm 5%)
KNL NF40 AR UV	PH REGULATOR + SS UV, 7 STAGE	(200-350) PPM	45% (\pm 5%)
KNL NF60 AR	PH REGULATOR, NO UV, 6 STAGE	(350-600) PPM	65% (\pm 5%)
KNL NF60 AR UV	PH REGULATOR + SS UV, 7 STAGE	(350-600) PPM	65% (\pm 5%)
KNL NF80 AR	PH REGULATOR, NO UV, 6 STAGE	(600-1200) PPM	80% (\pm 5%)
KNL NF80 AR UV	PH REGULATOR + SS UV, 7 STAGE	(600-1200) PPM	80% (\pm 5%)
KNL RO AR	PH REGULATOR, NO UV, 6 STAGE	(1200-3000) PPM	96% (\pm 3%)
KNL RO AR UV	PH REGULATOR + SS UV, 7 STAGE	(1200-3000) PPM	96% (\pm 3%)

Flux rate for NF20, NF40, NF60, NF80 & RO Membrane approx 32, 26, 25, 23 liters/hr for NF membranes respectively & for BARC RO approx 21 liter/hr



BARC Nanofiltration (NF)/RO Made in India No more TDS controller/scam



Stage 1. **Pre Filter** (Common in each case) Spun 10", pore size 5 micron, Captures all particles larger than 5 microns (clay, sand, rust, colour, heavy metal etc.)

Stage 2. **Sediment Filter** (Common in each case) [absolute 5 microns] The filter captures suspended particles such as sand, silt, loose scale, clay and organic material from the water.

Stage 3. **Activated Block Carbon Filter** (Common in each case) [1000 IV] absorbs harmful chemicals, toxic substances, iodine, chlorine etc., removes odour, and enhances water taste.

Stage 4. **KNL NF20/NF40/NF60/NF80/RO Membrane** differs as per raw water TDS. NF membrane reduces TDS from tap water around 20, 45, 65 & 80 percent with variation of plus minus 5%, gives 32, 26, 25 & 23 liters water per hour respectively. Pore size 0.0015, 0.001, 0.0005 and 0.0002 microns respectively. BARC RO membrane pore size 0.0001 microns, gives 21 liter water per hour and reduces TDS (93-97)% from raw water. All NF or RO membrane eliminates all impurities like arsenic, bromide, mercury, heavy metals, fluoride, pesticides, herbicides and germs and flushes them through rejected water. No need to use UV but may be added for further peace of mind. But the UV must be in SS 304 with quartz glass fitted.

Stage 5. **Activated Post Carbon** (common in each case) [Coconut shell] inhibits the bacterial growth and enhances water taste.

Stage 6 - **pH Cartridge** (optional but very useful), (**No chemical but natural stones filled**). the filter is used to enhance pH of membrane treated water. The filter adds up to pH 3.0 and a little necessary minerals too. The cartridge is used with regulator to achieve balanced pH in drinking water.

Stage 7 - **SS 304 UV Chamber** [Optional part]. Steel does not react with water but aluminium leaches aluminium oxide which contaminates drinking water. The UV [ultraviolet rays] emits radiation that kill germs/viruses. The NF/RO membrane is sufficient enough and does the job, however, UV can be added for further peace of mind.