

PRE-TREATMENT OF WATER FROM WELL, RIVER, LAKE



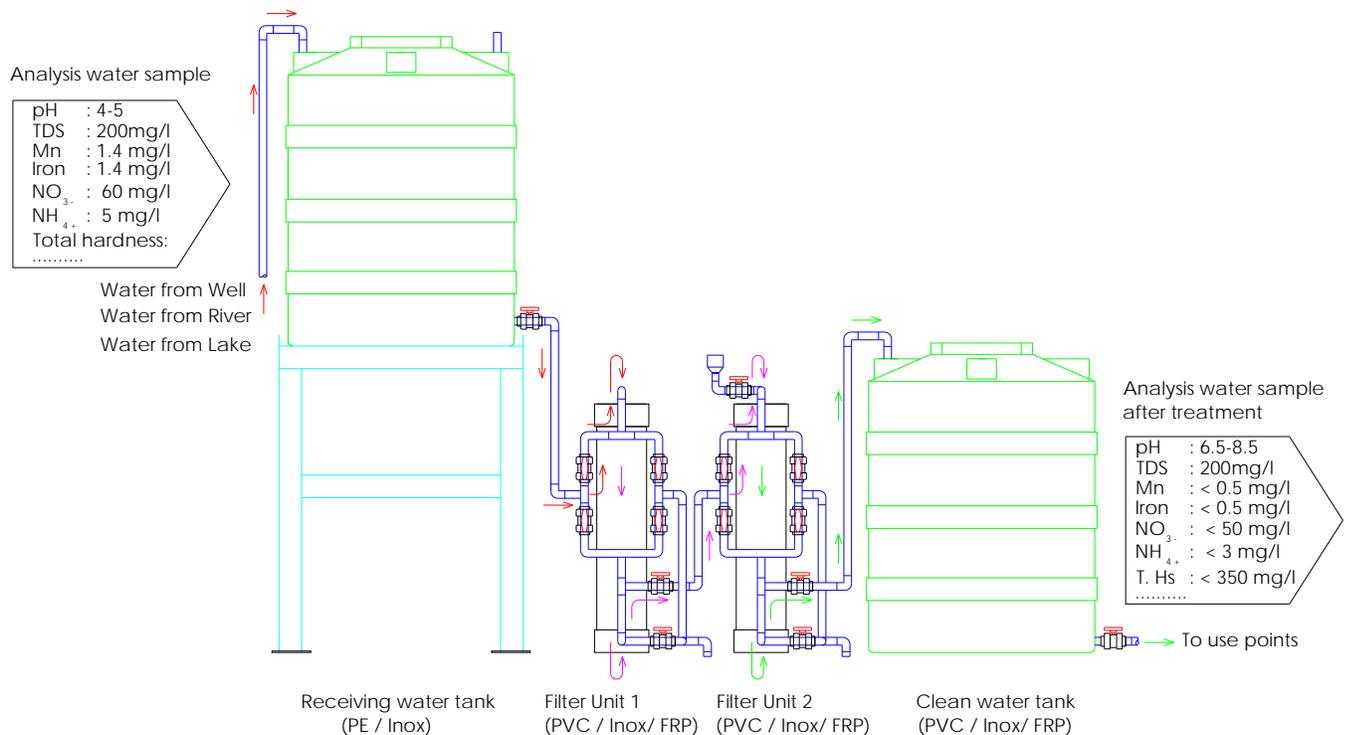
PRE -TREATMENT WATER FROM WELL, RIVER, LAKE FOR USING COOKING,
WASHING...and DRINKING WATER

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WATER PRE-TREATMENT

LNGD 500L / 1m³ / 1,5m³ / 2m³ / 3m³ / 4m³ / 5m³



FLOW CHART OF WATER PRE-TREATMENT FROM WELL, RIVER, LAKE

Principle and description of equipment:

System includes:

- The Receiving water tank made of PE/INOX
- The Filter Unit 1 made of PVC/FRP/INOX
- The Filter Unit 2 made of PVC/FRP/INOX
- The Clean water tank made of PE/INOX

Water from Wells, Rivers, Lakes is pumped to the Receiving tank for storage, then it will go through the Filter Unit 1, here almost mineral compounds such as Iron (Fe²⁺, Fe³⁺, Manganese, Arsenic, Copper, Lead ...other metal compounds) will be treated and even pH will be adjusted. Besides Suspended Solid and Odor will be handled thank to Sand and Active Carbon media. Then it will go to the Filter Unit 2, this equipment will be

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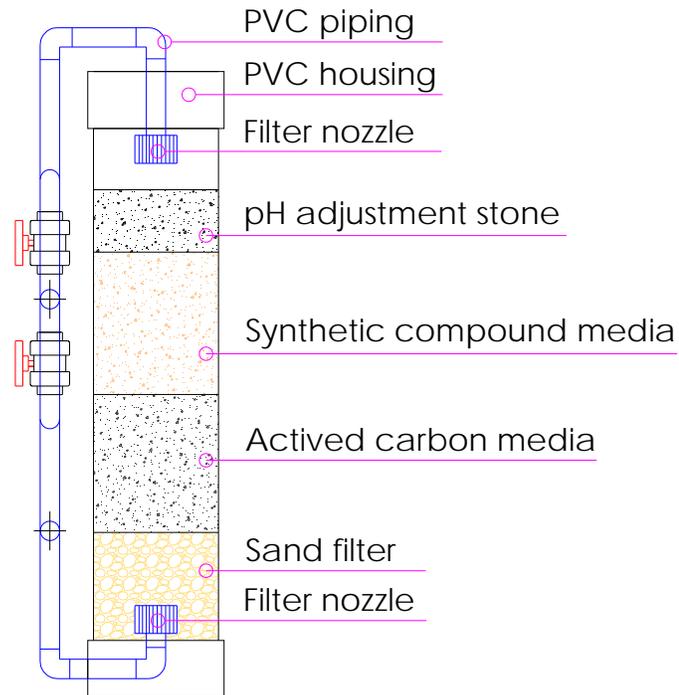
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incharge to handle compounds of NO_3^- , NH_4^- , Ca^{2+} , Mg^{2+} ... water becomes softer after treatment and it is ready to store at the Clean water tank.

Belong to water using volume requirement, we will design.

Detail of Filter Unit 1 & 2:



FILTER UNIT 1

There are layers of filter media inside Filter Unit 1 as follows:

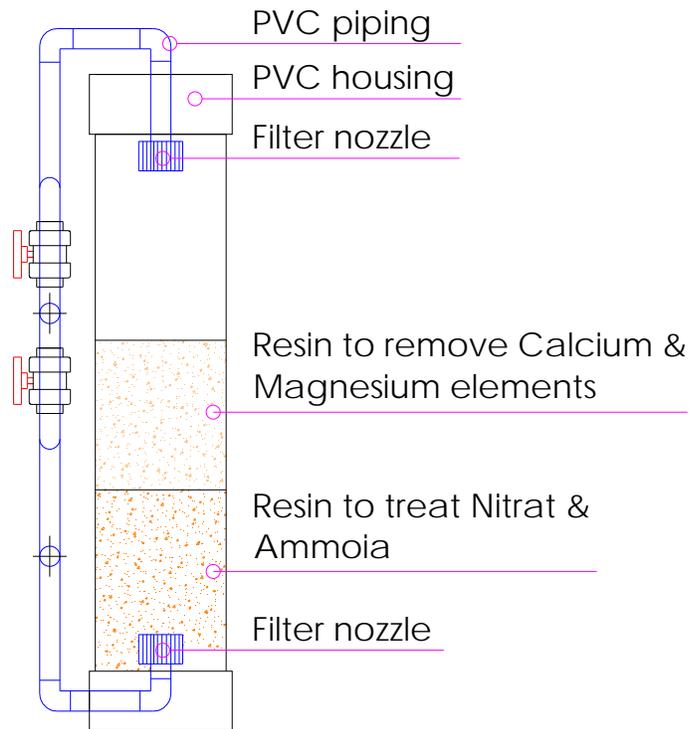
- pH adjustment stone: used to adjust pH from 6.5 to 8.5
- Synthetic compound media: to handle metal compounds in water
- Activated carbon media: used to treat odor, toxic elements...
- Sand filter media: to keep suspended solids

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FILTER UNIT 2

There are layers of filter media inside Filter Unit 2 as follows:

- Resin to remove Calcium and Magnesium, to treat water softening.
- Resin to treat compouds of Nitrate, Nitric, Amoniac...others.

Result of water after treatment:

After treatment, water meets the Standard of Domestic & Drinking Water (**TCVN-1329: 2002**) issued by Ministry of Heath in Vietnam (see sheet of Standards of Water Quality).

Applications:

This system supplies Clean water to families, appartments, buildings schools, heath centers, clinics, office centers... for using. It will be combined with FINE FILTRATION UNIT to supply DRINKING WATER. **See Catalog of Fine Filtration Unit to get more information of this equipment.**

These above mentioned information is offered from manufacturer, however this system will be changed belong to inlet raw water based on result of anaysis of water sample.

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A few pictures of Filter Media:



Stone Filter media



pH adjustment



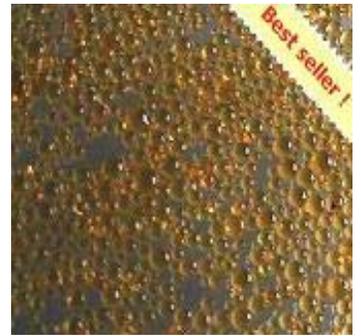
Resin for Ca, Mg



Sand Filter media



Activated carbon



Resin for NH, NO



Synthetic compound media



Manganese media



Anthracite media

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Dimensions of Filter Unit 1 & 2:

Tag	Diameter of filter (mm)	Height of filter (mm)	Quantity	Capacity (l/h)	Remark
LNGD-0.5m3	220	1150	1set	550-650	
LNGD-1m3	250	1150	1sets	900-1000	
LNGD-2m3	250	1350	2sets	1800-2000	
LNGD-3m3	300	1350	2set	2800-3000	
LNGD-4m3	350	1450	2sets	3800-4000	
LNGD-5m3	400	1450	2set	4800-5000	

Structure of Filter Unit made of:

1. PE
2. FRP (Composite)
3. Stainless Steel

Please, give us information about your raw water requirement,
we will support you how to treat it !

Thank you

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