



Multi Stage Filtration Unit



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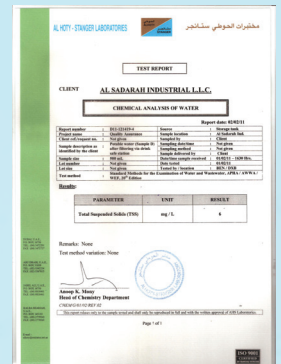
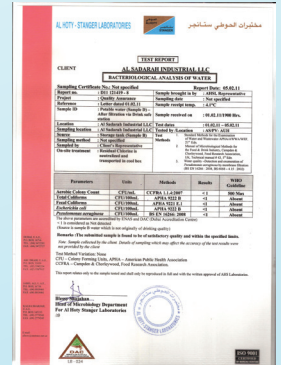
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DrinkSafe

- **No Water Wasted:** Because all the microbiological impurities are prevented from passing through the membranes, all the water is filtered without waste. As a result, no drain connection is required.
- **Good Tasting Water:** Because our membranes do not remove minerals, the taste of the water is maintained.

UF Membrane Filtration	Conventional Filtration	RO Filtration
Hollow fiber membrane.	Specially winded cotton threads.	Reverse osmosis membrane.
Removes most solid impurities, bacteria & viruses .	Removes some solid impurities, does not remove bacteria.	Removes all solid bodies, including bacteria. Removes dissolved minerals.
No electricity required.	No electricity required.	Requires electricity.
Low operation pressure required.	Moderate operation pressure required.	High operation pressure required.
No pump required.	No pump required.	Requires pump.
No storage tank required.	No storage tank required.	Requires storage tank.
Does not remove minerals, does not affect the TDS, & maintains good tasting water.	Does not remove minerals, does not affect the TDS, & maintains good tasting water.	Removes all dissolves minerals, eliminates TDS.



Product Description:

- High quality multi stage filtration unit.
- Basic unit consists of a 2 stage high quality filtration processor.
- Assures that the quality of the resulting filtered water is of drinking quality.
- The unit is able to remove coloring contaminants, odors, chlorine traces from the water.
- The unit is able to remove bacteria & viruses from the water (if they exist).

1st Filtration Stage:

Consists of two filtering stages in one element, which is a special mixed media that has the following characteristics:

- It removes suspended particles.
- It removes chlorine taste.
- It removes odors.



Stage 1 contains strong oxidizing blend (KDF & activated carbon) that eliminates bacteria.

2nd Filtration Stage:

This is a special high quality UF membrane, designed to offer superior filtration & quality drinking water. This membrane removes:

- Fine particles as small as 0.001 μ m (1 nanometer).
- Bacteria & viruses.



This custom made filtering element contains the highest quality multi bore hollow fibers.

3rd Filtration Stage:

The final stage of the unit is a UV disinfection chamber, which penetrates bacteria & damages its DNA, rendering it harmless. This method has been scientifically proven & is widely recommended. Its function is:

- Removing bacteria & any other living organisms.
- Reduces chlorine level in the drinking water.

UV is a safe & extremely efficient method to disinfect water without the use of chemicals.

Specification	Manual Backwash (no UV)	Manual Backwash (with UV)	Automatic Backwash
No. Of Stages	2	3	3
Stage 1	Mixed media filter	Mixed media filter	Mixed media filter
Stage 2	UF membrane	UF membrane	UF membrane
Stage 3	None	UV station	UV station
Flow Rate	180 liter/hour	180 liter/hour	180 liter/hour
Backwash Valves	None	PVC gate valve	Automatic solenoid valves
Electrical Supply	None	220V	220V
Connection Diameter	1/4"	1/4"	1/4"
Weight	5kg	7kg	12kg
Max. Operating Temp.	35° C	35° C	35° C
Max. Operating Pressure	4bars	4bars	4bars

Note: Other sizes & combinations are available & can be custom designed to meet specific requirements.



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UF Membrane Technology