

# NUF

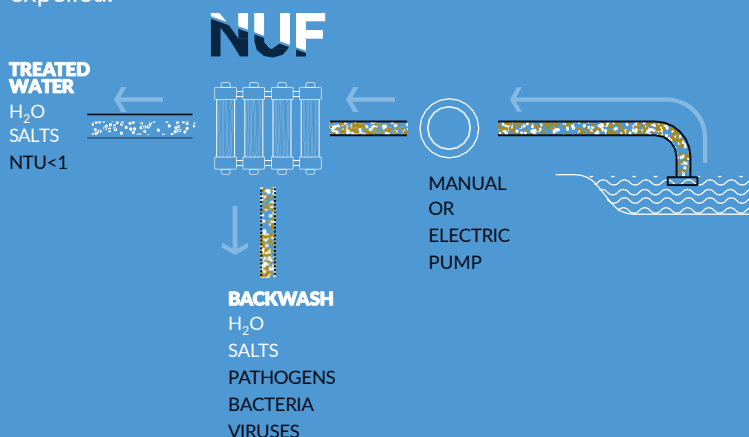
## FILTRATION

# DRINKING

**SURFACE AND BOREHOLES WATER PURIFICATION –  
PREMIUM WATER QUALITY AT AFFORDABLE COST**

**FILTRATION AND SANITIZATION OF FRESH WATER IN A SINGLE PASS  
THROUGH THE NUF® MEMBRANE – REMOVAL OF PATHOGENS,  
BACTERIA AND VIRUSES AT THE HIGHEST EFFICIENCY, WITHOUT  
CHEMICALS AND ADDITIVES**

- NUF® systems efficiently remove suspended solids, pathogens, bacteria, viruses and organic matters from surface (lake, river, pond, etc.) and/or borehole water in a single pass, thanks to the 0.03  $\mu$  absolute filtration rate of the NUF® membranes.
- Raw water enters the system at low pressure while the purification process takes place by simple mechanical size exclusion on the membranes – without use of chemical or biological treatment.
- Water and dissolved salts permeates the membrane as purified treated water.
- Out of the treated water, a minimal percentage of water (~2%) is used for a built-in periodical membranes backwash, when all the pollutants are expelled.



## Advantages

- Autonomous units that can be integrated to municipal water systems
- Fully automated units with electrical pumps (grid/solar/generator)
- Solar- energy fully automated self-sustainable powered units (0.5-10 m3/hr)
- Compact water treatment systems, skid mounted in a "plug-and-play" modular mode, from 0.5 to 1000 m3/hr capacity
- Affordable installation cost
- Risible operational cost

## Applications

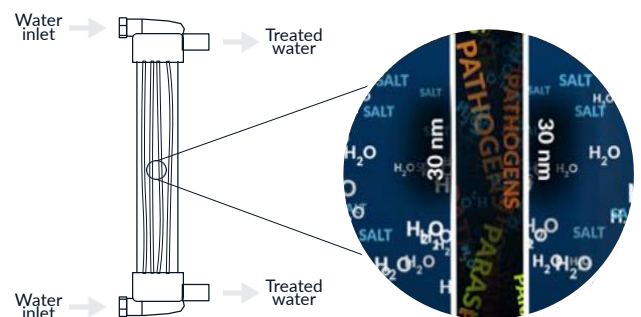
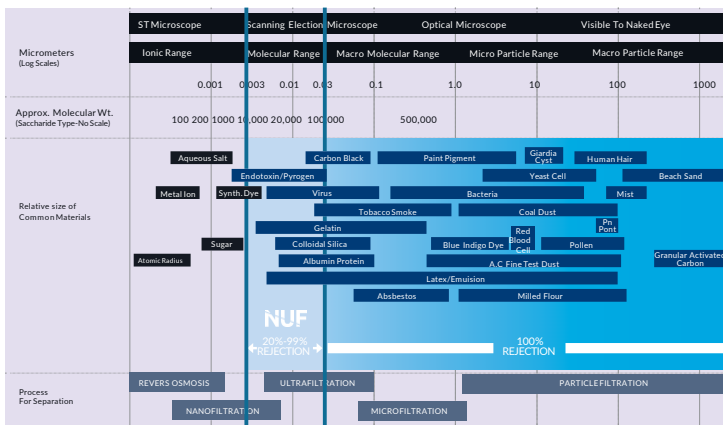
- Municipal water supply
- Emergency survival kits
- River water purification for villages, towns, etc.
- Best RO desalination pre-treatment units: a single pass through the NUF unit replaces the use of flocculation, chlorination, sand filtration, de-chlorination and cartridge filtration - while producing RO feed at SDI < 2



# The NUF® Technology



- Worldwide granted patent, which teaches reuse of duly sterilized medical "hemo-dialyzers" - NUF® membranes - in the field of water and waste water treatment
- The NUF® membrane provides the highest level of UltraFiltration – 0.03μ absolute filtration rate and 0.003μ nominal filtration rate
- Robust and easy to clean
- 200 μ incorporated pre-filter
- Approved by the Israeli Ministry of Health for Class A level effluents production
- At last makes UltraFiltration an affordable technology in agro and agro-industrial applications
- Double-green technology - reuse of discarded elements, which otherwise would have been buried for hundreds of years until depletion, in the purification and recycling of water



EFFLUENT WATER



AGRICULTURE IRRIGATION



DRINKING WATER



POOLS WATER



INDUSTRY USES