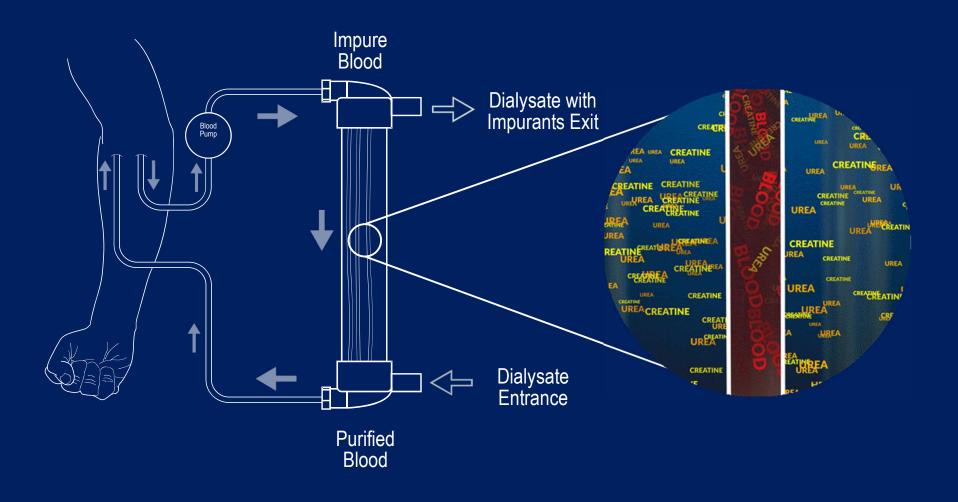
Netafim Ultra Filtration

Nutrient Recapture and Recycling

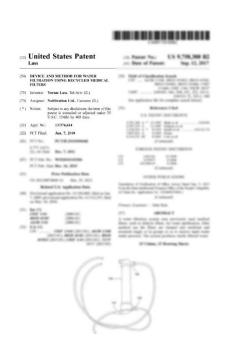


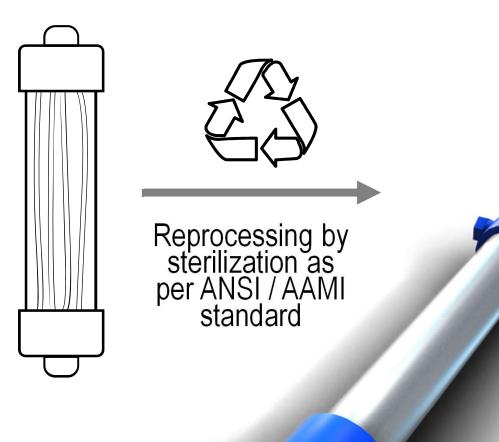


From a MEDICAL DEVICE USED FOR HEMODIALYSIS



PATENTED



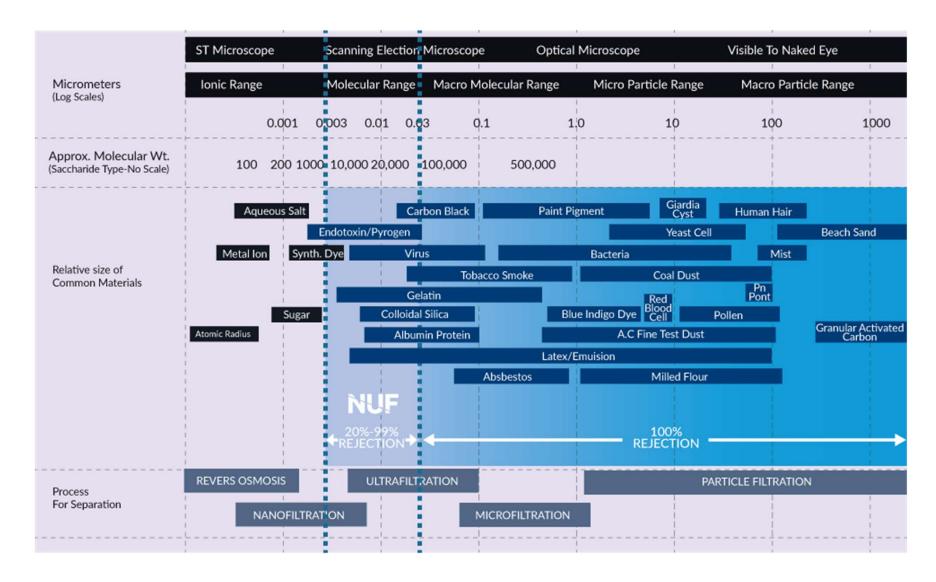


From a medical grade device



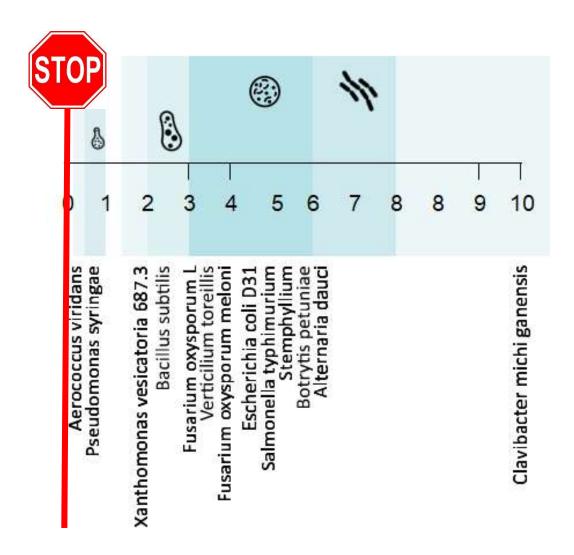
- Smooth membrane surface => low fouling and extremely easy to clean
- Robust: more than 3 years of continuous operation (and going on)
- Easy scalability: 8.33GPM, 20GPM, 40GPM

ON THE FILTRATION SPECTRUM





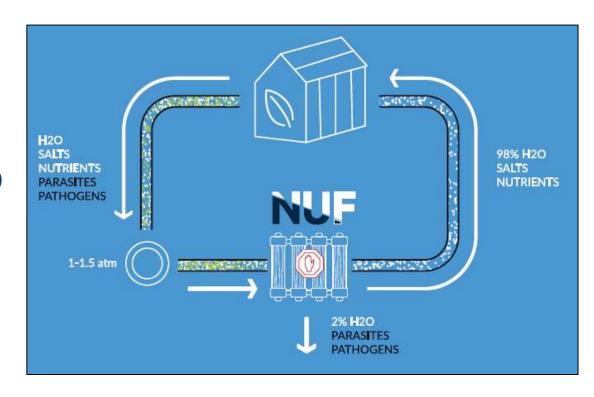
REMOVAL OF PLANT PATHOGENS





Nutrient water re-use

- ✓ Re-use 98% of nutrient water
- ✓ Remove pathogens
- ✓ Keep fertilizers and micro elements in-tact
- ✓ Without using chemical, thermal, or biological treatment
- ✓ Minimal, almost no-cost, energy requirements





COMPARE TO OTHER METHODS



UV

Statistical pathogen removal.

Performance deteriorates with turbidity.

Change structure of water contents.

Electric consumption.

OZONE



Decrease of pH to 4

Concentration of ozone

Algae formation

Not possible to process automatically

Heating



Decrease of pH to 4

High costs of energy and maintenance

Bio sand filter



Limited application (selective disinfection)

Small volumes

Maintenance intensive (tanks)



ECA

At increase of disease pressure - no automatic

adjustment possible



- **Absolute Pathogen removal** Regardless of water turbidity
- **Does not change the water** composition and does not harm the nutrients in the water
- **Chemical free**
- More efficient and cost-effective than any other solution
- Simple, safe for usage and long **lasting**



Greenhouse water re-use - Israel

For over 20 years SHEFER NURSERY were re-using water in their 10 Ha nursery, first using UV treatment for a decade, then switching to Thermal treatment in order to reduce running & operational costs.

SHEFER NURSERY is now using NUF™ membranes for 2 years, cutting the running-costs by more then 80%, without compromising on results.

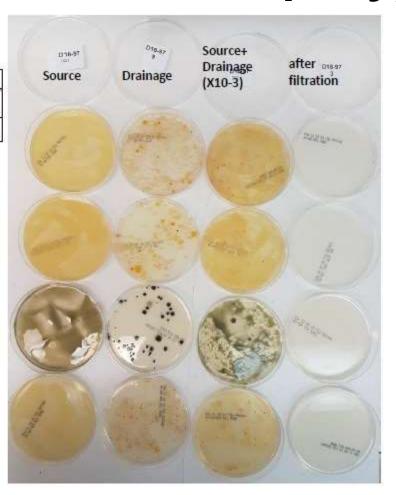




Tests (by a top 10 seed-company)

CMM Clavibactermichiganensissp. michiganensis

Treatment	Cmm		
Source	+++		
after filtration	(=)	clear	



Local Grower: Drain Pickup





Local Grower: Holding Area

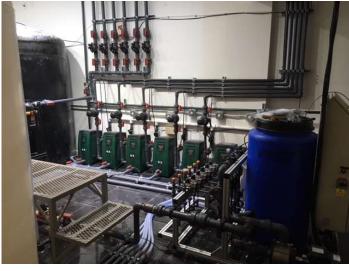






Local Grower: Nutrient Room











Local Grower: Ultra Filtration





THANK YOU

