NUF RUNOFF RECYCLING SYSTEM

NUTRIENT DISINFECTION AND RECYCLING
The NUF® system removes pathogens, parasites and fungi from the irrigation water in one single pass*, thanks to the 0.03 μ absolute ultra filtration rate of the NUF® membranes - while micronutrients and fertilizer concentration remains unaltered and available to the plants. Water flows to the system at low pressure while the purification process takes place by simple mechanical size exclusion on the membranes - without use of chemical, thermal or biological treatment. 98% of the irrigation water and fertilizers are recycled, while the pollutants are expelled during periodical backwashes.

SPECIFICATIONS
• ABSOLUTE filtration rate of 30 nm = > 0.03 MICRONS*
• Smooth membrane surface = > low fouling and extremely easy to clean
• Easy scalability and modularity

APPLICATIONS
• Irrigation water and fertilizer runoff recycling in Greenhouses and Nurseries
• Disinfection of irrigation water - breaks down pathogens, parasites and fungi*

SANITATION AND REUSE IN ONE SINGLE PASS*

PRODUCT ADVANTAGES
• Re-use 98% of nutrient water
• Absolute pathogen barrier* - Pathogen barrier efficiency based on the amount of pathogen in the inlet water
• Keep fertilizers and micro elements intact
• No chemical, thermal or biological treatments used
• Minimal, almost no-cost energy requirements
• Compact and fully automated water recycling system
• Huge saving in water and fertilizer cost

* Efficacy rates based on initial content; contact Netafim USA for more information. Some primary and secondary treatment might be required.
**NUF® COMPARED TO OTHER WATER TREATMENT METHODS**

## COMMON WATER TREATMENTS

### ULTRA VIOLET
- Statistical pathogen removal.

### OZONE

### HEATING
- Decrease of pH to 4. High cost of energy and maintenance.

### BIO SAND FILTER

### ELECTRO CHEMICAL ACTIVATION
- At increase of disease pressure - no automatic adjustment possible.

* Efficacy rates based on initial content; contact Netafim USA for more information. Some primary and secondary treatment might be required.

## NUF ULTRA FILTRATION

NUF provides **absolute** pathogen* removal regardless of water turbidity. Pathogen barrier efficiency based on the amount of pathogen in the inlet water.

NUF does not change the water composition and does not harm the nutrients in the water.

NUF is **chemical free**. No need to heat. Very low energy required.

NUF is more **efficient and cost-effective** than any other solution.

NUF is **simple**, safe for usage and long lasting.

---

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>MODEL NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>70180-000100</td>
<td>31NUF8GPMUS</td>
<td>NUF 8 GPM US</td>
</tr>
<tr>
<td>70180-000101</td>
<td>31NUF20GPMUS</td>
<td>NUF 20 GPM US</td>
</tr>
</tbody>
</table>