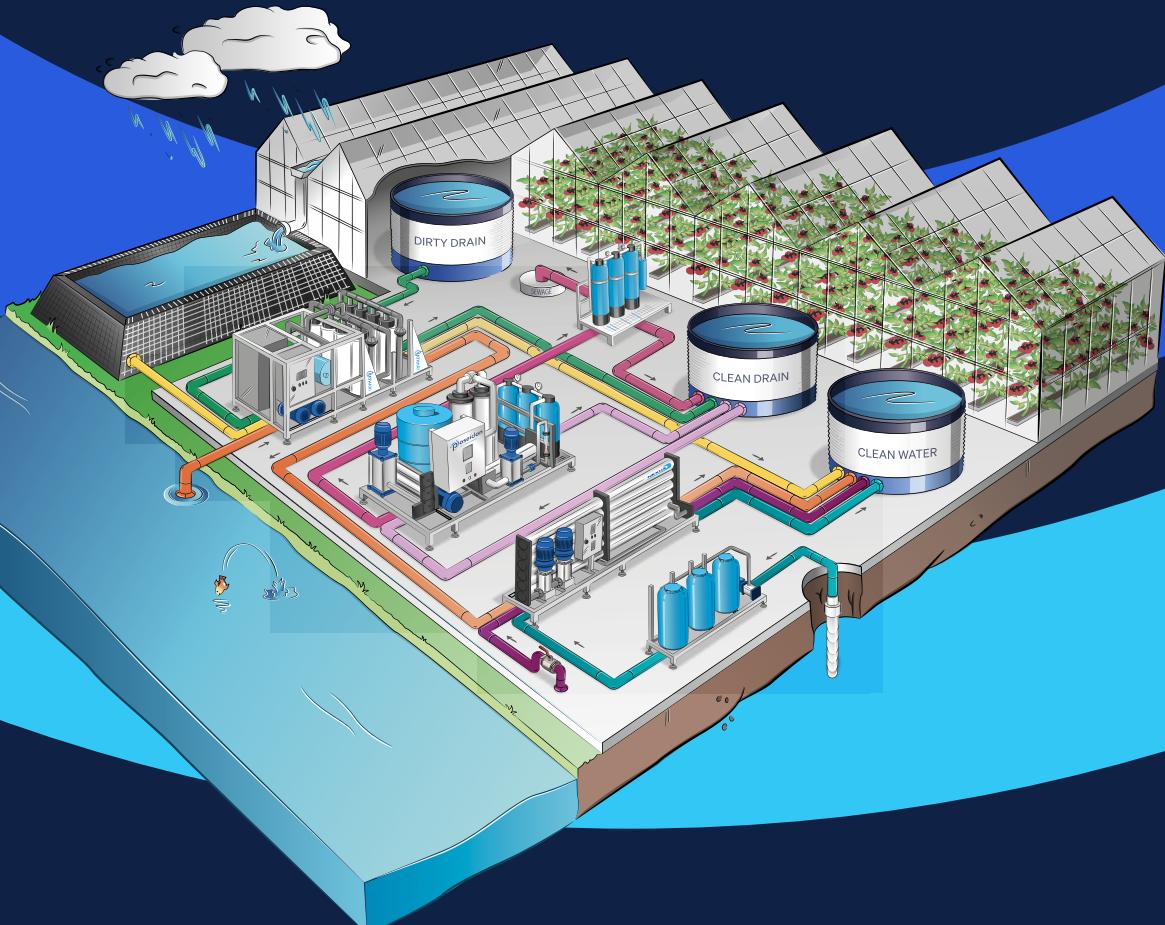


# WATER SOLUTIONS

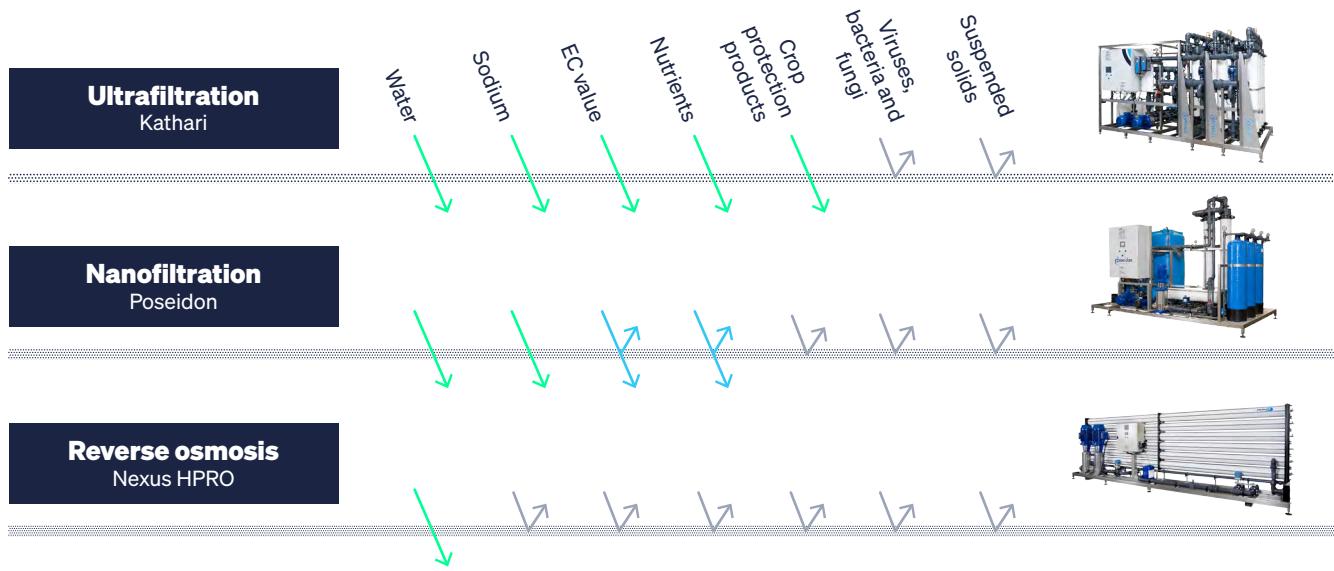
innovative  
water treatment systems



- Large surface water
- Rain / basin water
- Dirty drain water
- Clean drain water
- Clean water
- City water
- Well water

**Van der Ende Group offers a wide range of water treatment and filtration systems, including for the treatment of casting water, the purification of water for mist systems, the cleaning of contaminated city water, and also the production of RO water. Our range includes technologies such as pre-filtration, ultrafiltration, nanofiltration, and reverse osmosis.**

## FILTRATION TECHNIQUES



## KATHARI

efficient way to clean drain water

The Kathari gives your crops optimum protection against viruses, bacteria and fungi – with high removal certainty and low operating costs. It achieves a high Log reduction of viruses, bacteria and fungi by means of ultrafiltration (UF). And as UF is a low-energy technique and uses no antimicrobial products, it is very cost-efficient.

UF works by physically removing pathogens, unlike the more standard techniques that focus mainly on killing them. UF uses membranes, which are actually filters with very small pores. These pores are just the right size to hold back the viruses, bacteria and fungi but still allow dissolved salts, such as nutrients, to pass through. This process is not affected by water turbidity. It is therefore an excellent technique for purifying water, and also makes it possible to re-use water and nutrients.





## Advantages of the Kathari

- Physical removal of:
  - viruses (Log4)
  - bacteria (Log6)
  - fungi (Log6)
  - organic pollution
- Less organic/biological pollution in the watering system
- Insensitive to water turbidity
- Very low operational/energy costs
- Reduces environmental burden

# NEXUS HPRO

maximum water efficiency at minimal energy costs

The Nexus HPRO is a desalination system that uses state-of-the-art technology and therefore requires less input water to produce the required quantity of irrigation water. The system can achieve an impressive recovery of up to 95%, resulting in a lower need for source water (borehole, city water, surface water etc.). Additionally, energy consumption is significantly reduced, and the amount of wastewater is decreased by up to 50%.

Good irrigation water at the right time for minimum cost is essential for good production. The Nexus HPRO enables growers to produce good irrigation water with maximum efficiency, thanks to an internal combination of intelligent technologies. Water sources are becoming increasingly diverse, and many different kinds of input water are used, in addition to borehole water, often involving higher costs. HPRO makes it possible to achieve significant cost savings. The Nexus HPRO allows you to use water efficiently and consciously, with the extra advantages of reduced environmental impact and greater corporate social responsibility.

## Advantages of the Nexus HPRO

- Higher recovery rate
  - more yield in times of water scarcity
  - lower consumption of raw water
  - Less wastewater
- Lower energy consumption
- Helps to achieve CSR goals
- Less/no use of chemicals
- Lower operating costs



# POSEIDON

removes sodium and saves on nutrients and water

The Poseidon removes sodium in the most effective manner and at the lowest cost. This allows you to keep the sodium content in your drain water under control, achieving savings by reusing the drain water for longer while preserving valuable nutrients. Maintaining control over the sodium content is crucial for optimal crop growth and avoiding negative effects on the plants. Since the Poseidon enables efficient sodium reduction with a minimal amount of discharge water, you optimize plant growth and save on water and nutrients. Moreover, the use of activated carbon ensures that the limited discharge water is free of plant protection products.



## Advantages of the Poseidon

- Retains up to 50% of the nutrients
- Saves 80% of the drain water
- Includes integrated pre-filtration
- A proven concept
- Reduces environmental pollution
- Easy to install and use (plug-and-play)

# REKO SIEVE BENDS

trouble-free filter installations for separation of solids from waste and process water

### REKO sieve bend

For separating solids  
150 µm - 5 mm.

### REKO pressure-fed sieve bend

For separating solids  
50 - 250 µm.

## Advantages of the REKO sieve bends

- Minimal maintenance
- High capacity
- Continuous operation
- Continuous separation



# PAPER BELT FILTERS

for filtering water streams

Van der Ende Group has a specially selected product line of belt filters for greenhouse and other horticulture. The paper belt filters are compact, made of 304 stainless steel and can be supplied complete with reservoir, pumps and control box.

## **Advantages:**

- Variable pore size from 5 to 250 microns
- Capacity from 1 to 150 m<sup>3</sup>/h
- No backwash water



## **FILTER PAPER**

large stock and available for immediate delivery

Van der Ende Group supplies filter paper/fabric from stock in all widths and lengths and for many different kinds of belt filters, such as flat-bed, deep-bed and hydrostatic filters. The filter fabric is used for filtration of e.g. discharge water from a sand filter or backwash filter, drain water, basin water etc.

## **Improving Your Business**

Van der Ende Group is an innovator, producer, and supplier of technical products for the following themes: water, air, climate, and filtration. In addition to a very broad assortment of pumps and accessories, fans, and variable frequency drives, we offer a comprehensive package of technical solutions. Years of experience and expertise in consulting, design, installation, repair, and overhaul make our one-stop-shop concept unique. Furthermore, service is a high priority, and we distinguish ourselves with a high degree of flexibility and technical services worldwide. Even with more complex custom projects, you will find a reliable partner in Van der Ende Group.

**Check our website for more product information.**



**Vander Ende  
Group**