Ridder NoNa+

Selective removal of sodium from drain water

Benefits

- Lowers sodium levels in hydroponics
- Improves plant health
- Increases crop yields
- Enables fertilizers to be reused
- Reduces your water footprint



Goodbye sodium, welcome extra yields

Ridder NoNa+ provides a solution to reduce sodium levels in drain water; it's the industry's first water treatment unit that enables sodium to be removed selectively in a continuous, one-step process. It allows growers to reap the benefits of recirculation without having to worry about unsafe high sodium levels in their irrigation water or the loss of expensive fertilizers.

Selective sodium removal with innovative technology

The new groundbreaking combination of capacitive electrodialysis and ion-selective membranes provides a costefficient solution to reduce yield threatening sodium levels in recirculation water. The technology avoids removal of the expensive reusable minerals Ca2+, Mg2+, PO43- and SO42-. What's more, it requires neither the addition of exchange ions such as potassium chloride, nor an additional step for water recovery.

The next step towards emission-free cultivation

- Lower sodium levels reduce risk of BER and Tip Burn
- High financial impact in hydroponic crops (ROI < 3 years)
- Lowers sodium levels by 20% per treatment
- Has a water use efficiency of 95%
- Easy integration into existing installations
- Less dependency on quality of supply water
- Lowers greenhouse water and fertilizer footprint

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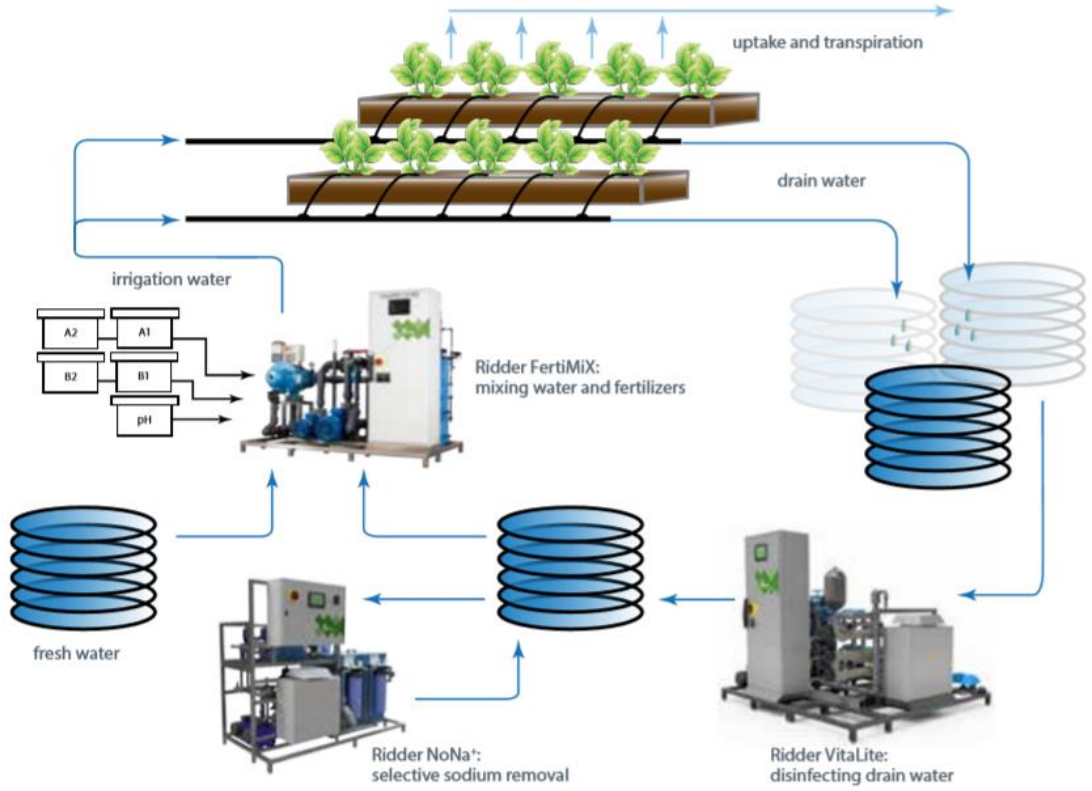
Select your capacity

Notes:

- *The capacities below are based on 20% sodium removal per treatment and a 20-hour run time per day.*
- *Example of 4% sodium removal: A sodium level of 5 mmol/L will be reduced by 0.2 mmol/L every day.*

Three models available		Sodium removal target		
		2%	4%	8%
Drain water volume (± cultivation area)	50 m^3/day (± 2.5 ha)		Ridder NoNa⁺ 10	Ridder NoNa⁺ 20
	100 m^3/day (± 5 ha)	Ridder NoNa⁺ 10	Ridder NoNa⁺ 20	Ridder NoNa⁺ 40
	200 m^3/day (± 10 ha)	Ridder NoNa⁺ 20	Ridder NoNa⁺ 40	

Easy integration into your greenhouse water cycle



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