



Priva Neutralizer

Bicarbonate causes a whole host of problems in irrigation water: unsightly chalk deposits on leaves, blocked irrigation nozzles and nutritional deficiencies due to high pH. Such problems can have a huge impact on profitability by reducing the value of decorative plants, depressing yields and even resulting in the loss of plants altogether. Nitric acid dosage is a long-established way to combat these problems, yet many existing dosing systems fall well short of ideal.



With existing systems, growers often notice that the pH seems to be higher than it should be at the dripper. This is due to the relatively slow reaction of bicarbonate with acid and the need to get rid of the CO₂ gas produced. Very few existing systems are capable of doing this properly. That's why Priva has introduced the Neutralizer. The Neutralizer is designed to pre-dose acid into the water storage tank and simultaneously aerates the water through a special venturi. The result is a storage tank with water at a stable pH and no bicarbonate. You will be amazed at the effects on your crop:

- Irrigation lines will stay unblocked
- Leaves of foliage plants will be green and shiny
- Plant vigour will increase
- Shelf life will improve
- Flavour of edible crops will be enhanced

Grower's experiences

It takes time for the acid to neutralize the bicarbonate from well, surface or city water. During the chemical process the bicarbonate goes through several stages. At one stage, carbonic acid is produced. In dosing systems this can't escape quickly enough, so it contributes to the lowering of the pH at the point of measurement. But when the water comes out of the spray line or nozzle, the carbonic acid vapourises as CO₂, and because the carbonic acid is no longer present, the pH rises. We see this every day!

The only way to avoid this problem is to pre-treat the water at the storage tank. In that case the carbonic acid is vented off quickly and the pH remains very stable and it is the same at the dripper as it is at the dosing unit!





The Priva Neutralizer solves these problems by injecting and mixing acid and subsequently aerating the incoming water to a stable irrigation solution.

Benefits:

- No bicarbonate deposits on foliage
- No drippers blocked by bicarbonate
- No acid overdose
- Stable pH at the drippers
- Instant availability of the irrigation water

Results

- Better colour, shelf life, flavour; because of better nutrition
- Higher yield, more vigour from extra nutrient uptake
- Lower feed costs
- Shiny foliage of green plants and trees

The Neutralizer can be applied to all water sources with high bicarbonate levels and in all intensive crops. You can choose either the Intégro or an integrated stand alone controller to control the neutralizer.

The Neutralizer is available in 3 capacities: 20, 40 and 60 m³/hr or to special order for higher flow rates.

Need to know more?

Call Priva at T +31 (0)174 522 600 or visit our website www.priva.nl. We will be delighted to help you with your next step.



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