



Improve yields and recoup
your investment quickly

Ridder FertiMiX Range

Solutions for
Controlled Environment Agriculture



FertiMiX E-series



FertiMiX Custom

EN 201810

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Helping you grow
your way



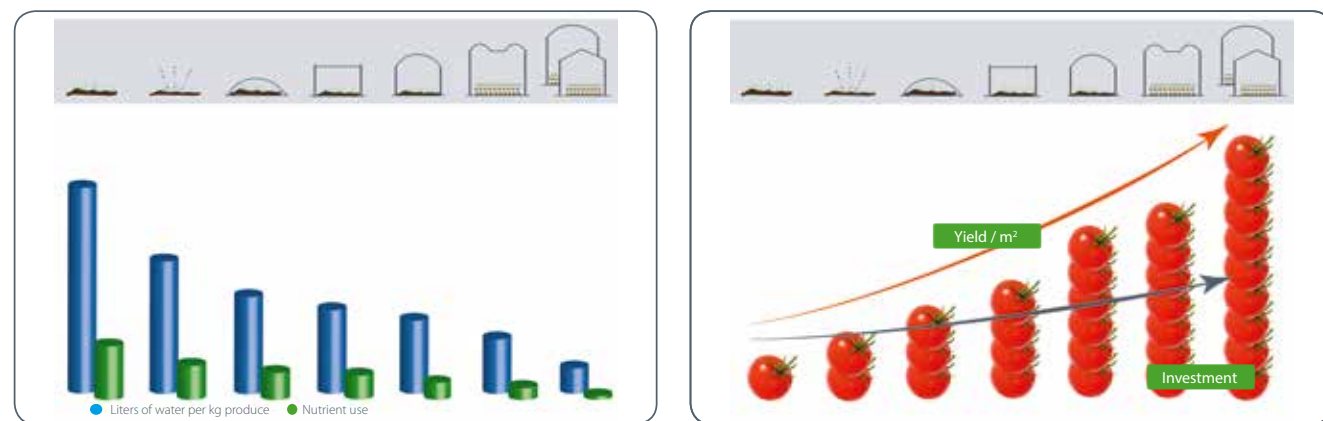
Implement simple to advanced fertigation strategies

A healthy and productive crop

Growing a healthy and productive crop requires the correct blend of water and nutrients. A nutrient solution must meet the specific needs of your plants. Crop failure is not only time-consuming, but can also spell disaster for your business. Ridder offers a comprehensive range of fertigation systems, from simple and affordable standard units to advanced models that are fully customised to your individual needs.

How can this benefit you?

There has been much research into the use of water technology and how this technology affects crop yields. This research shows that production increases more than proportionally with the level of technology used. It also appears that as more technology is used, less water and fewer nutrients are needed. This is shown in the following chart based on ratios:

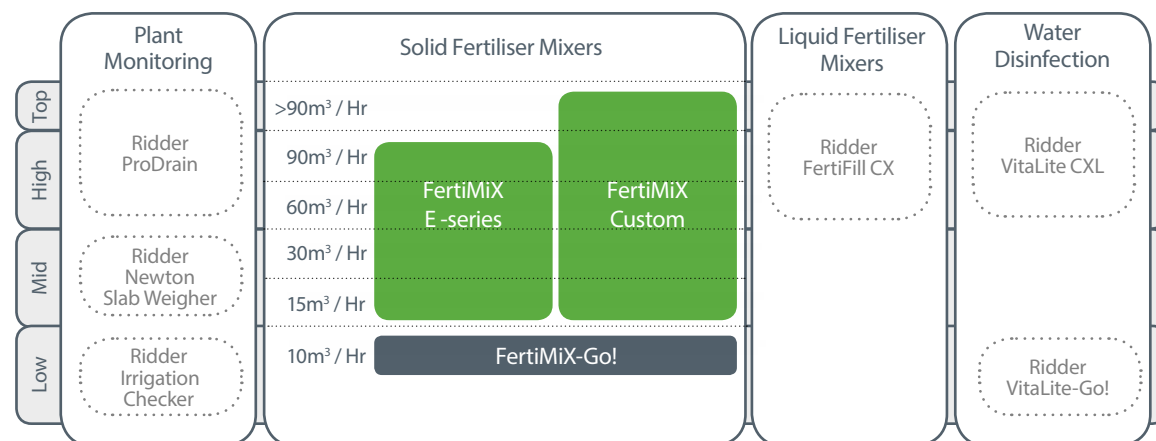


So why invest in water technology?

- ◆ Contributes to the sustainable use of less scarce and fresh water, yielding 'more crop per drop'
- ◆ Reduces the use of nutrients, which are usually expensive
- ◆ Increases production per square meter

Our range of fertigation units

We offer the following range of fertigation systems:



Ridder FertiMiX

Our solution in plant nutrition and fertigation is called the FertiMiX. Our FertiMiX series consists of three basic models with various options, depending on your crop, the desired technology level, the required capacity and your knowledge level. These models range from simple standard units to advanced custom systems:

FertiMiX-Go!	The FertiMiX-Go! is ideal for growers seeking an affordable, entry-level fertigation system. This is a standard unit with limited options.
FertiMiX E-series	The FertiMiX E-series are standard units available in a number of capacities and feature more basic options. Thanks to their standard design, they're available quickly and very affordable.
FertiMiX Custom	The FertiMiX Custom is a fertigation unit that is fully customised to your individual needs. This series features the widest range of options.

FertiMiX design principles

General design principles

In designing each unit, we carefully considered the pump size, pipes, and pressure build-up, so all the fertilisers are blended with the utmost precision. The FertiMiX can dose fertilisers from multiple tanks simultaneously in any desired ratio. It doesn't matter whether you use straight or compound fertilisers, preparing the right blend will take no time at all. Depending on your crop and the unit you've selected, the system even lets you add other substances, such as trace elements or pest control agents.

Irrigation programs of FertiMiX E-series and FertiMiX Custom

All irrigation and fertiliser settings are saved independently of the valves in 'irrigation programs'. You simply assign these irrigation programs to the desired valve group. The main benefit of this approach is that you only have to configure the settings once. If you want to change your fertigation strategy later, all you need to do is assign the desired valve groups to a different irrigation program. The irrigation programs include a range of standard options, such as crop pre-rinsing, crop post-rinsing and frost prevention sprinkling.

FertiMiX-Go! Controller

The FertiMiX-Go! can only be operated from the unit and comes standard with a controller that is easy to operate with push buttons and rotary knobs.

Controller for the FertiMiX E-series and FertiMiX Custom

A controller is optional for the FertiMiX E-series and FertiMiX Custom. This controller includes the following standard features:

- ◆ 32 valves & three irrigation programs
- ◆ Remote control
- ◆ EC control
- ◆ Start options:
 - Manual start
 - Time start
 - Alternative time start
 - Cyclic start
 - Radiation start
 - Contact start



The controller for the FertiMiX E-series and FertiMiX Custom

- ◆ Available languages:

Dutch, English, French, German, Spanish, Turkish, Italians and Polish

The controller for the FertiMiX E-series and FertiMiX Custom has the following expansion options:

- ◆ Up to 160 valves
- ◆ Up to ten valve groups
- ◆ The Ridder Synopta software, which allows you to operate the unit from a PC. The software includes comprehensive help for every setting and readout. Synopta even lets you keep track of your crop's development from anywhere in the world.

Easy to order, fast delivery

The FertiMiX-Go! and FertiMiX E-series are easy to order from our price list. The standard design of these units allows for short delivery times.

Ridder FertiMiX E-series

The FertiMiX E-series are standard units available in four capacities and feature more basic options. Thanks to their standard design, they're available quickly and very affordable.

The basic specifications of the E-series are as follows:

- ◆ 50-60Hz
- ◆ 400-600V (3-phase, common voltages)
- ◆ Zero (Neutral)
- ◆ Ground (Earth)
- ◆ Two dosing channels
- ◆ CompactiMa I/O (can be controlled by the Ridder CX500)
- ◆ EC control sensor and temperature protection on the pump

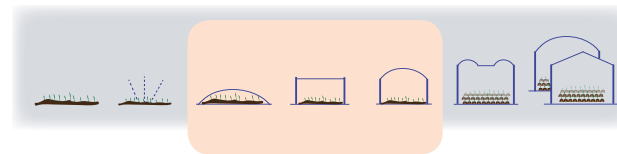
The FertiMiX E-series are available in a number of standard models with the following design capacities and ranges:

	Design capacity	Range
15m ³ /hr	15m ³ /hr @ 4.0 bars	10m ³ /hr @ 4.6 bars 22m ³ /hr @ 3.2 bars
30m ³ /hr	30m ³ /hr @ 3.8 bars	20m ³ /hr @ 4.4 bars 40m ³ /hr @ 2.9 bars
60m ³ /hr	60m ³ /hr @ 4.1 bars	40m ³ /hr @ 5.1 bars 75m ³ /hr @ 3.1 bars
90m ³ /hr	90m ³ /hr @ 3.6 bars	60m ³ /hr @ 4.5 bars 105m ³ /hr @ 3.0 bars

Additional options are also available for the FertiMiX E-series.

These are as follows:

1. Controller
2. pH control
 - ◆ pH sensor
 - ◆ Acid dosing channel
 - ◆ CompactiMa module
3. Up to two extra dosing channels, customised to the desired capacity
4. EC monitor sensor
5. pH monitor sensor, fitted to the unit
6. Flow meter supplied separately
 - ◆ Operating range: 0.3 to 6m/s
 - ◆ No power supply required
 - ◆ Resistant to chemical liquids (e.g., dissolved fertilisers)
 - ◆ Includes saddle clamp



Ridder FertiMiX Custom

The Ridder FertiMiX Custom is a fertigation unit that is fully customised to your individual needs. In addition to the controller options, this unit offers the most comprehensive range of system options. These system options are as follows:

1. Voltage
2. Grid frequency
3. Ground (Earth)
4. Zero (Neutral)
5. Altitude above sea level
6. EC module
7. pH module
8. Expansion module (additional groups)
9. Software language
10. Desired irrigation capacity
11. Maximum irrigation capacity
12. Number of liquid fertilisers to dose
13. Maximum capacity per fertiliser
14. Acid dosing
15. Alkali dosing
16. Number of relays for irrigation valves
17. VDC or VAC valves
18. EC monitor sensor
19. pH control sensor
20. pH monitor sensor
21. Filter type
 - If fitted with sand filter:
 - Desired filtration speed
 - Selected filter type
 - If fitted with fully automatic filter:
 - Minimum flushing pressure
22. System pump pressure
23. System pump type
24. System pump switch type
25. Water temperature protection on system pump
26. Fill pump capacity
27. Fill pump type
28. Fill pump switch type
29. Water temperature protection on fill pump
30. Pre-blending valve
31. Additional options are available in consultation

