



NUTRIDOSER RANGE

ECONOMIC | VERSATILE | EFFICIENT

LOCALLY DEVELOPED FERTIGATION UNIT RANGE

DIGITAL FARMING

After identifying various needs in the market, our local team put their heads together to develop this range fit for Southern African farms. The NutriDoser fertigation unit range. It offers a competitive, user-friendly, and compact fertigation solution to the market. This customer-driven innovation will make fertigation technology more accessible to a wider range of farmers. It is a simple and economic range developed with the farmer in mind.

BENEFITS & FEATURES

ERGONOMIC

The unit's aluminum frame is designed with the same dimensions for all unit types. This creates versatility and efficiency as it allows units to be combined and adapted as necessary.

MODULAR

Different NutriDoser units can be combined into a single system with a common inlet manifold and separate outlet manifolds.

PROBLEM-SOLVING

The common inlet and separate outlet manifolds prevent gypsum build-up when possibly incompatible fertilizers are used. Build-up may lead to clogging of pipes and pump failures.

FLEXIBLE

Channels with differing capacities can be combined on one unit. This lowers costs as you can use a channel with the appropriate capacity for each task.

ECONOMICAL

NutriDoser's flexibility, modularity and versatility, combined with the fact that it is manufactured locally, makes it a very economical solution.

RELIABLE

Only quality parts from known industry suppliers are used.

COMPACT

Units have a small frame making it easier to accommodate and ship. If necessary, it can be shipped pre-assembled or semi-assembled and easily assembled on site. Different units are built with similar parts, reducing replacement part stockholding.

VERSATILE

Easily slots into existing systems. Compatible with most controllers – not only Netafim controllers. Can be added to existing dosing unit systems to add capacity to the system.

LOW-MAINTENANCE

Parts are easy to replace without detailed technical knowledge. Units with Venturis have virtually no moving parts, limiting risk of breakdown and required maintenance.

UNIT CATEGORIES

IMPORTANT NOTE:

Total of 26 different unit variations (product codes) available. View full selection and further information on pages 27 to 35 in the Netafim South Africa 2021 Automation Pricelist. Speak to your technical advisor about unit specifications and application.



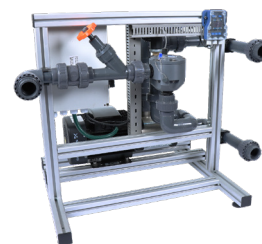
NutriDoser V (3 Channel)

- 2 or 3 x 150 ℓ/h or 400 ℓ/h channels
- Standard pressure or high pressure
- Controller, meters and ECpH control are optional



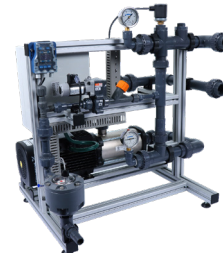
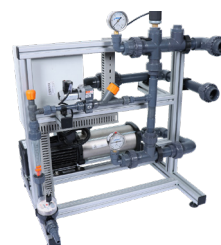
NutriDoser P (1 channel)

- Single-channel unit to answer in specific needs
- SP and HP
- Controller Optional



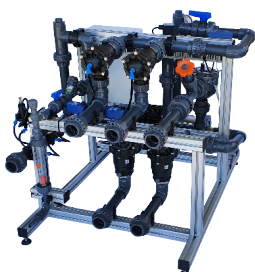
NutriDoser V ADD-ON (3 Channel)

- Add's on to an existing NutriDoser V making it a 3 + 3 split unit
- Separate machines with one inlet but separate outlets to mainline



NutriDoser P (3 Channel)

- One channel active at a time
- Only available with manual valves
- Fert meter with MPS or rotameter
- SP or HP
- Controller optional



NutriDoser V (1 channel)

- Single-channel unit to answer in specific needs
- SP and HP
- Controller Optional



NutriDoser VP (2x Fertiliser; 1x Chemicals)

- Focussed on sugar production
- One channel active at a time
- 2 x 4000 ℓ/h + 1 x 1000 ℓ/h Venturi (Chemicals)
- SP and HP
- Controller Optional

NutriDoser P (3 Channel) + Fertiliser meter & MPS-AD

- One channel active at a time
- SP and HP
- Controller Optional

UNIT NAME LEGEND

Example unit names:

NutriDoser-V 3x400 S12 CM5-7 SP
NutriDoser-V 3x400 S12 CM5-7 SP ADD-ON
NutriDoser-P 3x4000 MAN CM5-7 QN5 D SP
NutriDoser-VP 2x4K/1x1K MAN CM5-7 QN5 D

NutriDoser-V 1x400 S12 CM1-8 SP VFM
NutriDoser-V 1x150 S12 CM1-8 SP VFM
NutriDoser-V 1x1000 S22 CM5-7 QN5 D SP
NutriDoser-P 1x4000 MAN CM5-7 QN5 D SP

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
V	Venturi	3x400	Number of channels x Channel capacity (ℓ/h)
P	Pump	1K	1000 capacity of channel (ℓ/h)
MAN	Manual Valve	CM5-7	Pump size and type
S12	S12 Solenoid	QN5	Fertiliser meter type/presence
S22	S22 Solenoid	D	Flow rate display
SP	Standard Pressure	VFM	Visual flow meter
HP	High Pressure	ADD-ON	Add on to an existing unit

TECHNICAL INFORMATION

DOSING UNIT		DOSING CHANNELS					IRRIGATION SYSTEM		
MODEL	IN/ OUT- LET	QTY		OPERATION	MAX & MIN CALI- BRATION (% OF TIME OPEN)		PRESSURE (M) AT INLET TO UNIT		Q
	(MM)	ON UNIT	PARALLEL OPERATION	SUCTION MECHANISM	100	MIN	MIN	MAX	(m³/h)
					FLOW RATE (ℓ/h) PER CHANNEL FOR MAX & MIN CALIBRATION				
NutriDoser-V 3x400 S12 CM5-7 SP	40 PVC	3	3	Venturi	400	50	25	50	20
NutriDoser-V 3x400 S12 CM5-10 HP	40 PVC	3	3	Venturi	400	50	25	80	20
NutriDoser-V 3x150 S12 CM5-7 SP	40 PVC	3	3	Venturi	150	50	25	50	2
NutriDoser-V 3x150 S12 CM5-10 HP	40 PVC	3	3	Venturi	150	50	25	80	2
NutriDoser-V 3x400 S12 CM5-7 SP ADD-ON	40 PVC	3	3	Venturi	400	50	25	50	20
NutriDoser-V 3x400 S12 CM5-10 HP ADD-ON	40 PVC	3	3	Venturi	400	50	25	80	20
NutriDoser-V 3x150 S12 CM5-7 SP ADD-ON	40 PVC	3	3	Venturi	150	50	25	50	2
NutriDoser-V 3x150 S12 CM5-10 HP ADD-ON	40 PVC	3	3	Venturi	150	50	25	80	2
NutriDoser-P 3x4000 MAN CM5-7 QN5 D SP	40 PVC	3	1	Pump	4000	1000	25	50	*
NutriDoser-P 3x4000 MAN CM5-10 QN5 D HP	40 PVC	3	1	Pump	4000	1000	25	80	*
NutriDoser-P 3x4000 MAN CM5-7 VFM SP	40 PVC	3	1	Pump	4000	1000	25	50	*
NutriDoser-P 3x4000 MAN CM5-10 VFM HP	40 PVC	3	1	Pump	4000	1000	25	80	*
NutriDoser-VP 2x4K/1x1K MAN CM5-7 QN5 D	40 PVC	1+2	1	Venturi/Pump	4000	1000	25	50	*
NutriDoser-VP 2x4K/1x1K MAN CM5-10 QN5 D	40 PVC	1+2	1	Venturi/Pump	4000	1000	25	80	*
NutriDoser-VP 2x4K/1x1K MAN CM5-7 VFM	40 PVC	1+2	1	Venturi/Pump	4000	1000	25	50	*
NutriDoser-VP 2x4K/1x1K MAN CM5-10 VFM	40 PVC	1+2	1	Venturi/Pump	4000	1000	25	80	*
NutriDoser-V 1x400 S12 CM1-8 SP VFM	40 PVC	1	1	Venturi	400	50	25	50	20
NutriDoser-V 1x400 S12 CM1-12 HP VFM	40 PVC	1	1	Venturi	400	50	25	80	20
NutriDoser-V 1x150 S12 CM1-8 SP VFM	40 PVC	1	1	Venturi	150	50	25	50	2
NutriDoser-V 1x150 S12 CM1-12 HP VFM	40 PVC	1	1	Venturi	150	50	25	80	2
NutriDoser-V 1x400 S12 CM1-8 SP VFM D	40 PVC	1	1	Venturi	400	50	25	50	20
NutriDoser-V 1x400 S12 CM1-12 HP VFM D	40 PVC	1	1	Venturi	400	50	25	80	20
NutriDoser-V 1x1000 S22 CM5-7 QN2.5 D SP	40 PVC	1	1	Venturi	1000	100	25	50	60
NutriDoser-V 1x1000 S22 CM5-10 QN2.5 D HP	40 PVC	1	1	Venturi	1000	100	25	80	60
NutriDoser-P 1x4000 MAN CM5-7 QN5 D SP	40 PVC	1	1	Pump	4000	1000	25	50	*
NutriDoser-P 1x4000 MAN CM5-10 QN5 D HP	40 PVC	1	1	Pump	4000	1000	25	80	*

* Not applicable

NUTRIDOSER ADD-ONS

- Add-on Injection Units
- Add-on EC/pH Set
- Add-on EC/pH Manifold for NutriDoser
- Add-on Mixing Chamber
- Add-on SF Fertilizer meter
- Add-on QN 2.5 Fertilizer meter
- Add-on Pro Controller
- Add-on Junior Controller
- Add-on PSV for 1 Channel unit outlet



SELECTION INFORMATION FOR EC/pH CONTROL

DOSING UNIT TYPE	FOR EC CONTROL	MIXING CHAMBER PRESENT	% FLOW VARIANCE FROM SMALLEST TO LARGEST BLOCK	TOTAL ALKALINITY IN	IRRIGATION PULSE	CONTROL CYCLE
NutriDoser V (3 Channel)	Yes	No	25	$\leq 3 \text{ mEq/l}$	$\geq 8 \text{ minutes}$	6 to 15 seconds
	Yes	Yes	10	$\leq 2 \text{ mEq/l}$	$\geq 4 \text{ minutes}$	6 to 15 seconds
	No	No		No Limit		

PUMP UNITS INSTALLATION EXAMPLE (NutriDoser-P 1x4000 l/h Manual)

The NutriDoser-P 1x4000l/h with Fertiliser meter and MPS-AD.
Max SG of 1.2 due to pump constraints.

