



AMI PENTA FERTILIZER MIXER



For precision fertigation with irrigation control

Highlights

- Advanced control of plant growth
- Flexible setup of irrigation groups
- Pre-programming of up to 20 recipes
- User-friendly touch display
- Your language is available

AMI Penta sets even greater focus on the plants' need for precision fertilizing and accurate acidity in the irrigation water and at the right time.

Easy to operate

AMI Penta fertilizer mixer is easy to operate with well-arranged menus shown on a large 10.1" touch screen.

Large capacity and flexibility

AMI Penta can control up to 100 groups with individual start conditions. For each group you can choose between 20 different recipes with information about EC, pH and the fertilizer mix. Each group can control up to 30 valves,

and these can be chosen freely between the 200 valves available today in the mixer. Up to 4 valves can irrigate at the same time which gives a maximal utilization of the capacity. Irrigation time and volume can be set individually for each valve. Underlining its quality, AMI Penta operates with the very well-known brand GRUNDFOS as the main mixer pump.

Precise water control

To get the same water mix to all valves in the same group, you can mix more water sources and return water in ratio percentages. Depending on how much water is available in a basin, the mixer automatically changes the mixing ratio.

Automatic filter cleaning

When using rain water and return water, the filters for incoming water can often clog. This can affect the water pressure and thereby the amounts of water led to the fertilizer mixer. Automatic filter cleaning in the AMI Penta ensures rinsing of the filter when a certain water pressure loss is detected. The rinse is performed when the mixer is not busy with other activities.

Dosing pump

AMI Penta can be equipped with the PP40S dosing pump, which gives a precise dosing at different levels in the stock solution tanks. Venturi dosing units are also a possibility, and these give a precise dosing at equal levels in the stock solution tanks.

Modern technology

When you buy an AMI Penta, you get exactly the functions and the functionality you need. The software in AMI Penta is based on a standard operating system and is easy to update and expand with more functions and larger capacity when needed. AMI Penta can be connected to one central PC with the SuperLink central control program.



SPECIFICATIONS / AMI PENTA FERTILIZER MIXER

Technical

Supply Voltage	3 x 230 V / 400 V AC +10/-15 % 50/60 Hz
Water output min. / max.	10 - 64 m ³ /h, 3 to 8 bar
Main mixer pump, brand	Grundfos
Fertiliser dosing units	Small model: 2 - 5 units (one could be pH) Large model: 2 - 8 units (one could be pH)
Irrigation valves	24 V DC, 0.5 A
alarm outputs	1 digital output 24 V DC, 0.5 A
Communication	ETHERNET
Communication to EXP	Powerlink on ETHERNET

Physical

Temperature, running	0 - 50° C (32 - 122° F) no direct sun radiation
Humidity	0 - 95 % Rh without condensation
Proofing	IP65
Dimensions L x W x H	with 1 pump: 1200 x 790 x 1560 mm With 2 pumps: 1530 x 1400 x 2000 mm

Accessories:

Valve box - EC Sensor - EC Transmitter -
pH Transmitter - pH Sensor - Sun Cell SC21 - Dosing
Pumps PP40S or NH - Venturi - Drain tray

AMI Penta controls up to

• pH, EC sensor set	2
• Dosing pumps, fertilizer	7
• Dosing pumps, acidity	1
• Main pumps	2
• Valves	200
• Tanks, recirculation	8
• Recipes	20
• Groups	100

Program contents

- Irrigation on time or volume
- Volume registration
- EC control 2-8 stock solutions
- EC control, relative, absolute or ratio
- Mixing of fresh water and return water
- EC depending on solar radiation
- Automatic period with 4 time zones
- 24 hour pause, fixed time or fixed interval
- Manual start of individual valves
- Pre and post rinse valve
- Sun integrator
- Drain control
- Volume control
- Analogue start
- External start
- Fixed time interval
- Frost protection
- 24 hour program
- Week program

Alarms

- EC1/2 and pH1/2 min./max., absolute
- EC and pH min./max., relative
- Flow alarm

Separate choice of units

• Volume:	Liter, m3, gallon
• Flow:	l/min, 0m3/h, gpm
• Temperature:	°C, °F
• Irrigation time:	mm:ss, hh:mm
• Energy:	kJ, Wh

Distributor:

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