



AMI PENTA FERTILIZER MIXER

- ✓ Software for all groups, recipes and control of valves is included in the price - no extra future cost if your needs change
- ✓ Flexible setup of irrigation groups
- ✓ Pre-programming of up to 20 fertilizer recipes
- ✓ User-friendly touch display
- ✓ Always delivered with mixing tank - ensures the right mix of fertilizers and thereby higher accuracy of EC and pH control
- ✓ Precise water control
- ✓ Your language is available



For accurate fertigation with irrigation control

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

With the purchase of a bio venturi, AMI Penta is also available as a Bio-mixer for precise dosing of bio-fertilizers.

Easy to operate

- AMI Penta fertilizer mixer is easy to operate with well-arranged menus shown on a 10.1" touch screen.
- Many languages are available and switching between them is very simple. This minimizes the risk of human errors in nurseries employing people of different nationality.

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 fertilizer 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 9 valves can irrigate at the same time which gives a maximal utilization of the capacity. Irrigation time and irrigation 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.

Optimizing of water resources

- To get the same water mix to all valves in the same group, you can mix fresh water sources and return water in ratio percentages.
- Up to 8 return water basins can be selected with individual control. Thereby the return water is recycled and the water resources optimized.

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 ensures rinsing of the filter according to a time schedule.
- By using up to 3 filters it is possible to use both the filters and continuing the watering at the same time.

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 for further analysis of data.



SPECIFICATIONS / AMI PENTA FERTILIZER MIXER

Specifications	
Supply Voltage	3 x 230 V / 400 V AC +10/-15 % 50/60 Hz
Flow rate - Inline	10 - 64 m ³ /h, 3 to 8 bar
Flow rate - Amigo - injector system	40 - 200 m ³ /h, 3 to 9 bar
Main mixer pump, brand	Grundfos
Fertiliser dosing units	Small model: 2 - 5 units (one could be pH) With 1 pump - up to 32 m ³ /h Mixing tank: 130 L Dim.: 1200 x 790 x 1560 mm Large model: 2 - 8 units (one could be pH) with 1 or 2 pumps <32 m ³ /h Mixing tank: 350 L Dim.: 1530 x 1400 x 2000 mm
Irrigation valves	24 V DC, 0.5 A or 24 V AC
alarm outputs	1 digital output 24 V DC, 0.5 A
Communication	ETHERNET
Communication to EXP	Powerlink or ETHERNET
Temperature, running	0 - 50° C (32 - 122° F) no direct sun radiation
Humidity	0 - 95 % Rh without condensation
Proofing	IP65

Alarms

- EC1/2 and pH1/2 min./max., absolute
- EC and pH min./max., relative
- Flow alarm
- Many user-defined alarms in more time zones

Accessories

Among other things: Valve box - EC Sensor - EC Transmitter - pH Transmitter - pH Sensor - Sun Cell - Dosing Pumps PP40S or NH - Venturi - Drain tray - SIIP - weather station

AMI Penta controls up to

- pH, EC sensor set 2
- Dosing units, fertilizer 7
- Dosing units, acidity 1
- Main pumps 2
- Irrigation valves 200
- Fertilizer recipes 20
- Irrigation groups 100
- Tanks, recirculation 8

Program contents

- Irrigation on time or volume
- SIIP (Senmatic Intelligent Irrigation Program)
- EC control 2-8 stock solutions
- EC depending on solar radiation
- Sun integrator and drain control
- Frost protection
- Manual start of individual valves
- Possible start via external units
- Analogue start via sensor in the culture
- Flow from 5 - 200 m³
- 6 time zones per day - 6 different watering strategies
- 24 hour program and week program
- Mixing of fresh water and return water
- Automatic filter cleaning
- Control of rinse valve for emptying basins and flushing the main
- Preprogramming of up to 20 fertilizer recipes
- Can be connected to SuperLink for central control and further analysis of data
- Many different languages

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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