AMI PENTA FERTILIZER MIXER



For precision fertigation with irrigation control

Highlights

- 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

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.

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 wellarranged menus shown on a 10.1" touch screen. Many languages are available and switching between them is very simple. This minimizes the risk og 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 it's quality, AMI Penta operates with the very well-known brand GRUND-FOS 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.

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 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 m³/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 on 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

Distributor:

AMI Penta controls up to

		-
•	pH, EC sencor 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

Tanks, recirculation

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

°C,°F

Many different languages

Separate choice of units

- Volume: Liter, m3, gallon
 - Flow: l/min, 0m3/h, gpm
 - Temperature:

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- Irrigation time: mm:ss, hh:mm
 - kJ, Wh
- Energy:

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