

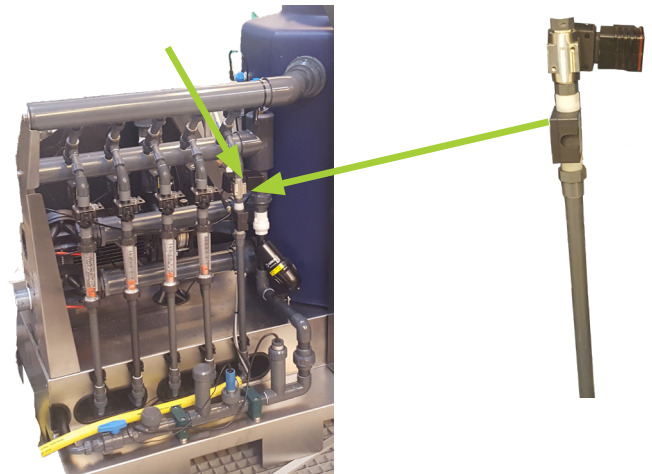


AMI PENTA BIO- & FERTILIZER MIXER

- ✓ Precise dosing of biomass (Bio-fertilizer and beneficials/micro-organisms) based on flow of water and pH
- ✓ Dosing of biomass can be done independently on EC and pH
- ✓ The mixer is available with up to 8 bio-venturis
- ✓ Software for all groups, recipes and control of valves is included in the price
- ✓ Furthermore, you get all the advantages from AMI Penta mixer

AMI Penta fertiliser mixer with bio-venturi

Bio-venturi



For precise irrigation of bio-fertilizer

By mixing biomass, the addition can irrigate the culture medium at a very precise dosage. AMI Penta controls the irrigation flow so that the software in the mixer allows for different dosing strategies.

- Exact dosing ensures you control and thus success with your production.
- AMI Penta can function as a common fertilizer mixer with EC, but with additional options for biomass dosing by purchasing a bio-venturi.
- Always delivered with mixing tank - ensures the right mix of fertilizers.
- Can be connected to a PC with SuperLink programme for central control and for further analysis of data.

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.
- 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 GRUNDFOS as the pressurepump.

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.



SPECIFICATIONS / AMI PENTA BIO- & FERTILIZER MIXER

Specifications	
Supply Voltage:	3 x 230 V / 400 V AC +10/-15 % 50/60 Hz
Flow rate - Inline:	7 - 58 m ³ /t, 3 til 8 bar
Flow rate - Amigo - Injector system:	40 - 200 m ³ /t, 3 til 9 bar
Main mixer pump, brand:	Grundfos
Fertiliser dosing units:	<p>Small model: 2 - 5 units (one could be pH) With 1 pumpe - < 32 m³/t Mixing tank: 130 L Dim.: 1200 x 790 x 1560 mm</p> <p>Large model: 2 - 8 units (one could be pH) With 1 or 2 pumper < 32 m³/t Mixing tank: 350 L Dim.: 1530 x 1400 x 2000 mm</p>
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
Min./Max. flow i bioventuri:	0,25 l/m - 6 l/m - but Depending on the pump size
Temperature, running:	0 - 50°C (32 - 122°F) No direct sun radiation
Humidity:	0 - 95 % Rh Without condensation
Proofing:	IP65

System requirements for the Bio mixer

- Flow sensor on outgoing flow
- Space in Venturi unit for bio venturi
- Software version 1.2.35 or newer

Separate choice of units

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

AMI Penta controls up to

- pH, EC sensor set: 2
- Venturi dosing: 8
- Main pumps: 2
- Irrigation valves: 200
- Fertilizer recipes: 20
- Irrigation groups: 100
- Basins, recirculation: 8

Programme contents

- Bio-program
- Irrigation on time or volume and volume registration
- 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

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 - Venturi - Drain tray - SIIP - weather station

Distributor:

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