

Metering System DULCODOS UL1a (Inline System Liquid)

Metering system specifically designed for the preparation of a fully activated liquid polymer solution



Extraction volume 100 – 400 l/h against 4.5 bar

The compact inline preparation system DULCODOS UL1a features a special mixing chamber in which liquid polymer is added by peristaltic or metering pumps. Optimum mixing with water produces a fully activated polymer solution with a maturing time of approx. 15 min in the maturing chamber.

The concentration of the polymer solution can be simply adjusted on the touch panel.

Continuous polymer preparation output in l/h can be specified as an option. The polymer preparation system works reliably and conserves resources, thanks to its optimum process control.

Your benefits

- Precise processing of liquid polymers (0.05 - 1.0 %) with a 50 % active ingredient
- Highly efficient mixing and maturing chamber for emulsions / dispersions and water
- User-managed input of the concentration with proportional metering
- Compact design with various installation options
- Optional operator-managed specification of the polymer preparation output in l/h
- System runs directly against a 4.5 bar back pressure, there is no need for a polymer solution transfer pump

Field of application

- Sludge dewatering and sludge thickening
- Waste water treatment (industry and local authorities)
- Potable water treatment

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Technical Data

The following types of polymer can be processed:

- Liquid polymers (0.05 – 1.0 %)
- as emulsions or dispersions

Selectable components:

- Free adjustable polymer preparation output
- Configuration versions
- Electrical connection
- Control versions with or without data communication
- Operating versions
- Liquid polymer metering pumps
 - Peristaltic pump DFXa
 - Metering pump gamma/ X
 - Metering pump sigma 1 Control
- Monitoring of low liquid polymers
- Raw water booster pump
- Post-dilution unit
- Language

DULCODOS UL1a system type		100	200	400
Preparation capacity max.	l/h	100	200	400
Extraction rate max. / inline with post dilution	l/h	450	900	1,800
maturing time	min	15	15	15
Max. water pressure	bar	8	8	8
Min. water pressure*	bar	4	4	4
Maximum back pressure	bar	3,5/ 4.5	3,5 / 4.5	3,5 / 4.5
Length	mm	1,200	1,200	1,200
Width	mm	800	800	800
Height	mm	1,900	1,900	1,900
Water connection DN		25	25	25
Discharge nozzle DN		25	25	25
Protection class		IP 55	IP 55	IP 55
Voltage / frequency	V/Hz	220-240/50-60	220-240/50-60	220-240/50-60

* for lower water pressure, use the pressure boost option