

Metering System Ultramat® ULDa

A good solution when preparing polymer solutions as flocculation aids.



Extraction rates of up to 2,000 l/h

Ultramat® ULDa double-decker systems are used to process liquid and powdered polymers. The system consists of two separate PP storage tanks, stacked above each other,

preventing product carry-over. The polymer solution is batched in the upper storage tank and can be transferred to the lower storage tank once the maturing time has elapsed.

Your benefits

- Processing of liquid polymer (0.05 – 1.0 %) and powdered polymers (0.05 – 0.5 %)
- No mixing of fresh and matured polymer
- Wide range of versions for specific applications
- Operator-controlled input of solvent concentration and calibration of powder feeder and liquid concentrate pump
- Water apparatus with flow meter and fitting set for the dilution water
- Gentle mixing of the polymer solution (electric stirrer)

Field of application

- Potable water treatment
- Waste water treatment (industry and local authorities)
- Sludge de-watering
- Paper production

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Technical Data

The following types of polymer can be processed:

- Liquid polymers (0.05 – 1.0 %)
- Powdered polymers (0.05 – 0.5 %)

Selectable components:

- Tank size/extraction rate
- Construction (normal or mirror image)
- Electrical connection
- Control S7 – 1200 (with and without PROFIBUS[®]/PROFINET/Modbus TCP)
- Powder feeder
- Vibrator for powder feeder unit (promotes the movement of polymer)
- FG205 powder feeder/top hopper (for filling and feeding the powder feeder unit)
- Liquid concentrate pumps of types Sigma, Spectra, DULCOflex
- Monitor for liquid concentrate pump (float switch / flow monitor)
- Flush valve (Y-flush inlet or wetting cone)
- Language (pre-set language for the control panel)

The standard scope of delivery includes among other things:

- Pause function/operating message/running dry function
- Monitoring of the re-dilution unit
- Lifting lugs

Discharge volume	l/h	400	1,000	2,000
Tank volume	l	2 x 400	2 x 1,000	2 x 2,000
Diluent water max.	l/h	1,600	4,000	8,000
Water pressure	bar	3 – 5	3 – 5	3 – 5
Powdered polymer	kg/h	0.5–11	0.8–18	3.6–55
Length	mm	1,638	1,902	2,288
Width	mm	1,351	1,615	2,005
Height	mm	2,030	2,514	3,149
Water connection	"	1	1	1 1/2
Discharge nozzle DN		25	32	40
Concentrate feed DN	mm	15	15	20
Voltage/Frequency	VAC/Hz	400/50	400/50	400/50
Power uptake	kW	1.5	2.6	3.2