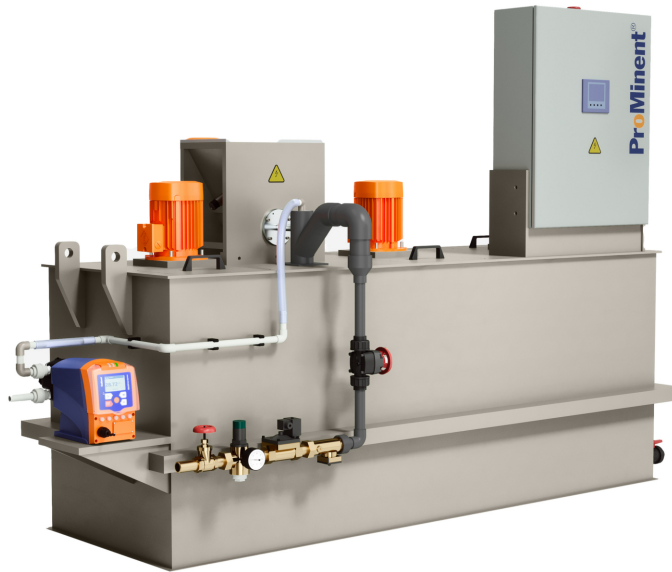


# Metering System Ultromat® ULFa

Efficient production of a polymer solution with a high throughput capacity.



## Extraction rates of up to 8,000 l/h

These systems can be used to handle both liquid and powdered polymers. The tank, which is sub-divided into three

chambers, largely prevents the entrainment of the freshly batched polymer.

## Your benefits

- Processing of powdered polymers (0.05 – 0.5 %) and liquid polymers (0.05 – 1.0 %)
- Minimal product entrainment and hence improved results
- Extraction of the polymer solution and drainage of the chambers through the front of the storage tank
- User-managed input of the solvent concentration and calibration of the powder feeder unit and liquid concentrate pump
- Gentle mixing of the polymer solution by electric stirrers operating at approx. 700/840 rpm in the standard model. Optionally with geared stirrer in the first batching chamber operating at approx. 70/84 rpm (based on a 50/60 Hz mains power supply)
- New: Information on the liquid polymer consumption by a 4-20 mA signal from the liquid concentrate pump DFXa

## Field of application

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

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## Technical Data

The following types of polymer can be processed:

- Powdered polymers (0.05 – 0.5 %)
- Liquid polymers (0.05 – 1.0 %) with 50 % active ingredient

Optional components:

- Tank size/extraction rate
- Construction (normal or mirror-image design)
- Wide-range voltage connector for 50 Hz or 60 Hz mains power supply
- S7 – 1200 control (with and without PROFIBUS®/PROFINET/Modbus TCP)
- Powder feeder unit and diverse add-on hoppers for powder storage
- Vibrator for powder feeder unit (keeps the polymer moving)
- FG205 powder conveyor (for the automatic filling of the powder feeder unit)
- Liquid concentrate pump types DFXa, Sigma, Spectra, DULCO®flex
- Liquid concentrate pump monitor (float switch / flow monitor)
- Flush valve (Y-flush inlet or wetting cone)
- Geared stirrer in batching chamber 1
- Stirrer for chamber 3
- Language (touch panel language can be pre-set)

The standard delivery includes:

- Pause function/operating signal/running dry function
- Batching mode enabled signal
- Monitoring of an optional post-dilution unit
- Lifting lugs for transport

<b>Discharge volume</b>	l/h	400	1,000	2,000	4,000	6,000	8,000
<b>Usable tank volume (with approx. 10 % reserve)</b>	l	400	1,000	2,000	4,000	6,000	8,000
<b>Raw water feed</b>	l/h	600	1,500	3,000	6,000	9,000	12,000
<b>Raw water pressure</b>	bar	3 – 5	3 – 5	3 – 5	3 – 5	3 – 5	3 – 5
<b>Max. dosing rate of powdered polymer</b>	kg/h	11	11	18	55	55	110
<b>Max. dosing rate of liquid polymer (with 50 % active ingredient)</b>	kg/h	12	30	60	120	180	240
<b>Length</b>	mm	1,999	2,643	3,292	3,301	4,120	4,605
<b>Width</b>	mm	918	1,002	1,186	1,456	1,651	1,910
<b>Height</b>	mm	1,390	1,740	1,890	2,182	2,182	2,290
<b>Raw water connector</b>	"	1	1	1	1 1/2	1 1/2	2
<b>Discharge nozzle DN</b>		25	25	32	40	40	50
<b>Concentrate feed DN</b>	mm	15	15	15	20	20	20
<b>Nominal voltage/frequency</b>	V/Hz	400/50 460/60	400/50 460/60	400/50 460/60	400/50 460/60	400/50 460/60	400/50 460/60
<b>Power uptake</b>	kW	1.5	2.6	3.2	5.0	5.0	9.5
<b>Protection class (IP54 at 460 V AC)</b>		IP55	IP55	IP55	IP55	IP55	IP55