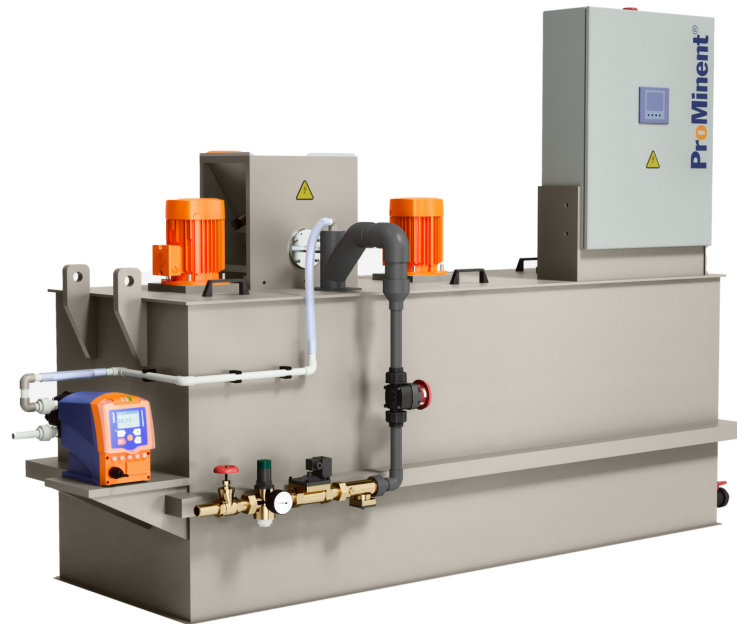


Metering System ULTROMAT ULFa

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



Polymer preparation station ULTROMAT ULFa (continuous flow system): This metering system can be used to batch flocculation aids for the preparation of a ready-to-use polymer solution. The system was designed for the fully automatic batching of polymer solutions.

Technical Details

Siemens S7 – 1200 compact control system and KTP 400 touch panel

- Optionally fitted with PROFIBUS® and DP/DP coupler
- Optionally fitted with PROFINET and PN/PN coupler
- Optionally fitted with Modbus TCP
- Optional post dilution units for usage solutions of 1,000 - 50,000 l/h, inductive flow meter (opt.)



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The following types of polymer can be processed:

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

Selectable components:

- Tank size/extraction rate
- Construction (normal or mirror image)
- Wide-range power connection for 50 Hz or 60 Hz mains supplies
- Control S7 – 1200 (with and without PROFIBUS®/PROFINET/Modbus TCP)
- Powder feeder unit and various types of add-on hoppers for powder storage
- Vibrator for powder feeder unit and various types of add-on hoppers for powder storage (promotes the movement of polymer)
- Powder conveyor FG205 (for automatically filling the powder feeder unit)
- Liquid concentrate pumps of types sigma, SPECTRA, DULCOFLEX and DULCOFLEX DFXa
- Monitor for liquid concentrate pump (float switch/flow monitor)
- Flush valve (Y-flush inlet or wetting cone)
- Gearbox driven stirrer in preparation chamber 1
- Stirrer for 3rd chamber
- Language (pre-set language for the touch panel)
- Gearbox driven stirrer in preparation chamber 1

The standard scope of delivery includes among other things:

- Pause function/operating message/running dry function
- Preparation operation active message
- Monitoring of an optional post dilution unit
- Lifting lugs for transport

Discharge volume	l/h	400	1,000	2,000	4,000	6,000	8,000
Useful tank volume (with reserve of approx. 10%)	l	400	1,000	2,000	4,000	6,000	8,000
Raw water feed	l/h	600	1,500	3,000	6,000	9,000	12,000
Water pressure	bar	3...5	3...5	3...5	3...5	3...5	3...5
Max. dosing rate of powdered polymer	kg/h	11	11	18	55	55	110
Max. dosing rate of liquid polymer (with 50% active ingredient)	l/h	12	30	60	120	180	240
Length	mm	1,999	2,643	3,292	3,301	4,120	4,605
Width	mm	918	1,002	1,186	1,456	1,651	1,910
Height	mm	1,390	1,740	1,890	2,182	2,182	2,290
Water connection for raw water	Inch	1	1	1	1 1/2	1 1/2	2
Discharge nozzle DN	mm	25	25	32	40	40	50
Concentrate feed DN	mm	15	15	15	20	20	20
Nominal voltage/frequency	V AC/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
Power uptake	kW	1.5	2.6	3.2	5.0	5.0	9.5
Enclosure rating		IP 55 *	IP 55 *	IP 55 *	IP 55 *	IP 55 *	IP 55 *

* IP54 at 460 V AC