

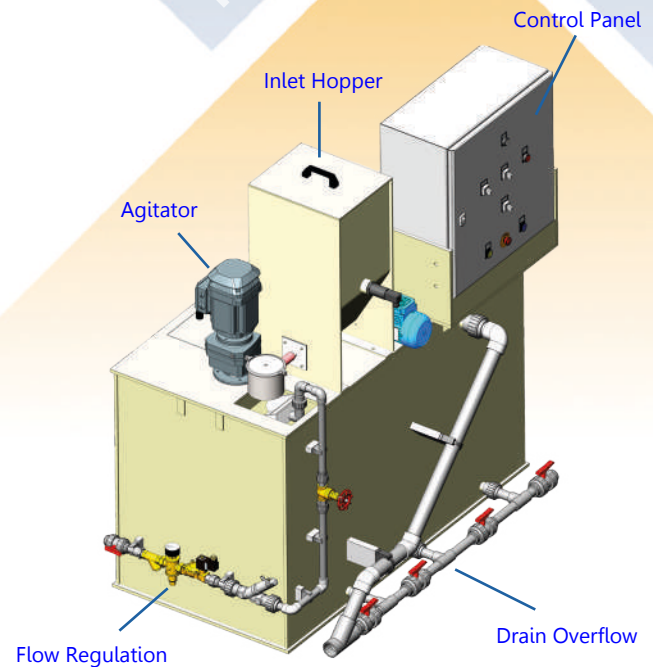
# POLYMATE PREPARATION UNIT

NEW EQUIPMENT MADE BY SODIMATE

Sodimate can offer a wide range of polymer preparation units.

The Polymatic P is a preparation unit designed for polyelectrolytes. This unit is intended to dilute polymer powder to a desired concentration to be fed in a process that requires flocculation. It is aimed at all applications where synthetic or biologic (option) polymers in a powder form must be prepared in solution to act as flocculants.

Most of the commercially available polymers are usable with our preparation unit. In order to achieve high quality and continuous preparation, the whole system is fully automated.



## ▶ ADAPTABLE

## ▶ TURNKEY

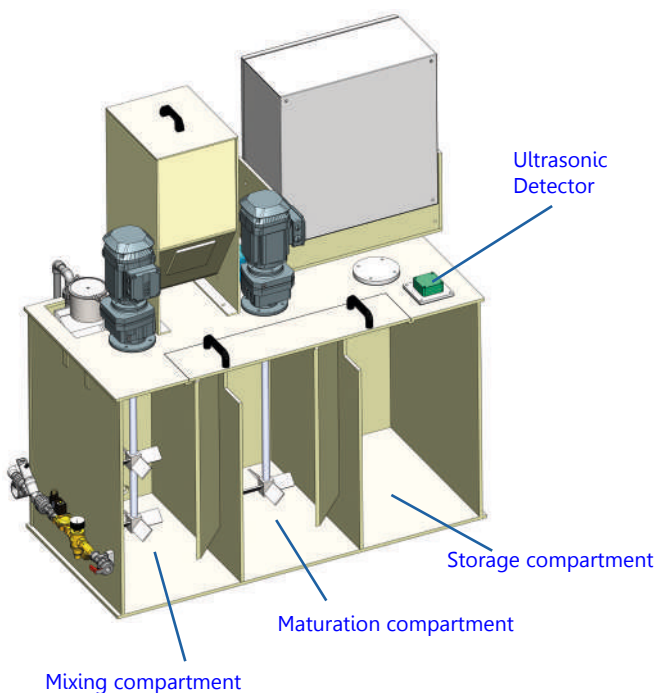
## ▶ REDUCED MAINTENANCE

### Powder Version

The Polymatic P consists of a PPH tank with 3 distinct chambers: one for mixing – one for maturation – one for storage. These three chambers are hydraulically connected via overflow.

The first two compartments are systematically equipped with an agitator, the third one is not agitated except in specific cases or requests.

The mixing compartment is supplied with clear water while a certain amount of polymer powder is discharged from a small storage hopper through a volumetric micro-feeder. The mixer continuously dissolves the powder into the water by agitation. In the second chamber, the solution is matured by additional mixing. Finally, the polymer solution then flows to the storage compartment from which it can be transferred into the process.



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## OPTIONS

- ▶ HMI display for the control panel
- ▶ Big-Bag station with micro screw feeder
- ▶ Online dilution chart with static mixer
- ▶ Custom-made tank dimensions
- ▶ Powder vacuum cleaner for filling the micro-feeder hopper
- ▶ Progressive cavity pump mounted directly on the tank
- ▶ Customized positions of each instrument on the tank
- ▶ Agitator in the third compartment

POLYMATIC RANGE	650P	1000P	1500P	2000P	3000P
Length x Width x Height	1414 x 734 x 880	1530 x 1000 x 880	1592 x 1230 x 1000	2130 x 1230 x 1000	2624 x 1450 x 1000

Withdrawal rate in L/h Max for a maturation time of 30 minutes	1300	2100	3000	4000	6000
Water supply	DN20	DN20	DN20	DN40	DN40
Estimated water flow rate in L/h for 30 minutes for maximum discharge rate	2600	4100	6000	8 120	12 000
Mechatronic flowmeter + display range in L/h	120-6000	120-6000	120-6000	240-12000	240-12000
Powder flow rate for a concentration of 2 g/l	5,2 Kg/h	8 Kg/h	12 Kg/h	16 Kg/h	24 Kg/h
Powder flow rate for a concentration of 4 g/l	10,4 Kg/h	16 Kg/h	24 Kg/h	32 Kg/h	48 Kg/h

Dosing range in Kg/h	1 à 5	5 à 25	10 à 50	10 à 50	10 à 50
Motor Power	0,18	0,18	0,25	0,25	0,25