

Automatic stainless steel and polypropylene **continuous flow polyelectrolyte** solution preparer



Description

The preparer is a device designed for automatic continuous flow preparation of a polyelectrolyte solution, starting from the polyelectrolyte in powder form and water.

The polyelectrolyte powder is extracted from the storage hopper using a batching screw with variable speed, moving to the mixer nozzle water cone.

Because of gravity, the mixture obtained falls into the first preparation tank and then passes through the traps into the maturing and batching tanks.

These preparation and maturing tanks are equipped with stirrers, also present as a possible optional in the batching tanks.

The volume of the deposits and the continuous action of the stirrers ensures that a homogenous mixture is obtained and that the retention time is suitable for perfect dilution.

The electrical control panel ensures total system automation, guaranteeing correct preparation and the right batching.



Applications



The use of polymers and flocculants considerably facilitates the processes of distinguishing between solid – liquid phases in the following example applications:

- Treating drinking and industrial processing water.
- Purifying waste water, in particular within physicochemical treatments.
- Treating sludge, in order to improve the performance of centrifuges and filter presses.
- Processes for the paper, chemical, petrochemical, mineral processing, canning industries etc.

Benefits

The use of automatic polyelectrolyte solution preparers gives the following results:

- Considerable savings in terms of the polymers and running costs.
- Precision in the preparation and batching stages, optimising the processes.
- Space savings and system centralisation.



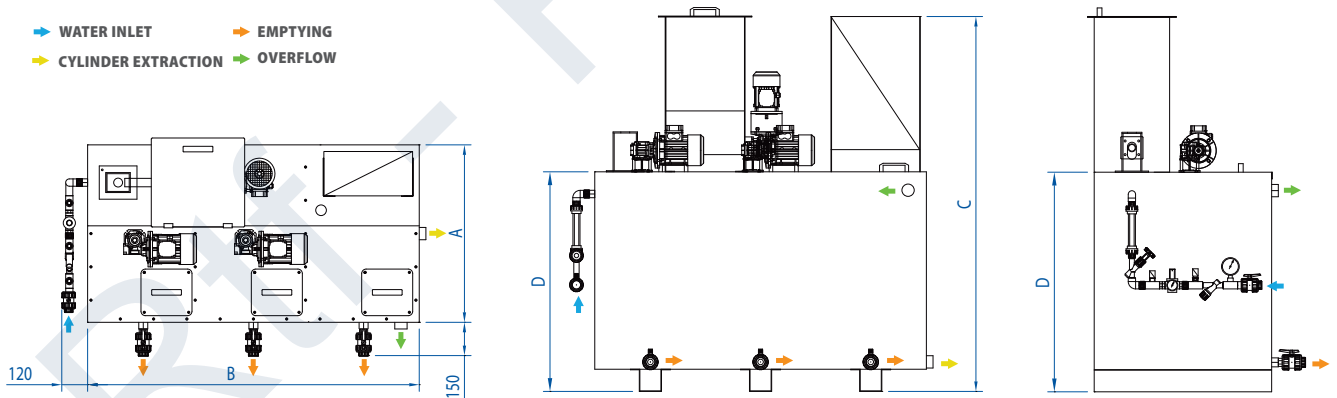
Construction characteristics of a standard system

- Automatic water supply system formed by a shut-off valve, filter, safety pressure switch, pressure gauge, pressure reducer, solenoid valve, control valve, flow meter and special dispensing nozzle.
- Deposits made entirely of stainless steel and PPH, with inspection covers and emptying valves for each compartment.
- Customised propellers, optimised to obtain a homogeneous mixture, made of stainless steel.
- Batching screw made entirely of stainless steel with batching adjustment using the precise speed variator.
- Electric protection and control panel, with built-in or touchscreen synoptic panel, designed for manual/automatic operation, equipped with emergency stop and wiring to all system components.
- Conductive level probes for high, low and very low levels with audible warning.

Optionals

- Automatic powder hopper loading.
- Minimum level probe in the powder hopper.
- Stirrer in the batching tank.
- Overflow probe.
- Prefabricated post-dilution systems. Heating resistor in the powder exhaust pipe.

Dimensions and characteristics of standard systems



Model	Capacity	A	B	C	D	Water inlet	Cylinder extraction	Emptying	Overflow
	Lts.	mm.	mm.	mm.	mm.				
PL5	550	800	1.000	1.690	990	3/4"	1 1/2"	1"	1 1/2"
PL8	850	800	1.500	1.690	990	3/4"	1 1/2"	1"	1 1/2"
PL11	1.100	800	2.000	1.690	990	3/4"	1 1/2"	1"	1 1/2"
PL15	1.500	800	2.500	1.690	990	3/4"	1 1/2"	1"	1 1/2"
PL20	2.000	1.150	2.000	1.800	1.100	1"	2"	1"	2"
PL30	3.000	1.150	3.000	1.800	1.100	1"	2"	1"	2"

All systems are equipped with three compartments except no. 5, which only has two compartments. For higher or non-standard capacities, contact our technical department. The company reserves the right to make the necessary technical and production changes without prior notice. The images do not imply any contractual relationship.

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