

POLITOP AP - AE - AD

Automatic powder, liquid, and dual polyelectrolyte preparers





DESCRIPTION

The POLITOP model preparer is an equipment for the automatic and continuous preparation of the polyelectrolyte solution from powder or liquid.

APPLICATIONS

Treatment of drinking water and industrial process.

Wastewater treatment, specifically in physical-chemical treatments.

Sludge treatment, to improve the performance of centrifuges and press filters.

Industrial processes in paper mills, chemical industry, petrochemical industry, mineral treatment, etc.

OPERATION

AP VERSION – FOR POWDER POLYELECTROLYTE

The preparer model POLITOP AP is a unit designed for an automatic and continuous preparation of polyelectrolyte solution from powder polyelectrolyte and water. It consists of a tank divided into two or three agitated compartments, a dispenser, an inlet water collector, and a control panel.

The dilution water reaches the tank through the automated water collector. The polyelectrolyte powder, stored in the hopper of the dispenser, is extracted by means of a special screw and discharged on the dispersion cone of a water nozzle.

The obtained mixture falls by gravity into the first compartment and then passes through siphons to the second and third. The first and second compartments have stirrers, and optionally the third one as well.

The volume of the compartments and the continuous action of the stirrers ensures a homogeneous mixture and a suitable retention time for a good dilution.

The distribution panel and control panel are responsible for operating the entire system automatically, ensuring correct dosing and preparation.

AE VERSION – FOR LIQUID POLYELECTROLYTE

The preparer model POLITOPAE has a similar operation, but it is designed for operation with liquid polyelectrolyte.

In this case, the dispenser is supplanted by a special pump for liquids of high viscosity.

AD VERSION – FOR POWDER AND LIQUID POLYELECTROLYTE

The preparer model POLITOP AD (DUAL) it is designed for operation with powder or liquid polyelectrolyte.



CONSTRUCTIVE CHARACTERISTICS

Automatic water supply system formed by isolating valve, filter, pressure switch, pressure gauge, pressure reducer, solenoid valve, regulating valve, pulse emitter flowmeter, and dispersion nozzle.

Tanks made entirely of polypropylene PPH.

The tanks have three compartments, except for model 5, which has two, and all have inspection covers and a drain connection in each compartment.

Optimized design propellers for a homogeneous mix, made of AISI 316 stainless steel.

Volumetric doser built from the material of the deposit and provided with a dosing screw specially designed for working with polyelectrolyte.

Electrical panel for protection and control, with touch screen, prepared for manual or automatic operation, equipped with emergency stop and wiring to all the elements of the equipment.

Easy and intuitive colour touch screen operation with display and control of all important parameters.

Automatic regulation of dosing percentages by means of control software.

Heating resistance and methacrylate peephole in dust discharge tube.

Inductive level sensor for high, low, very low and very high level, with warning signal.

OPTIONAL ELEMENTS

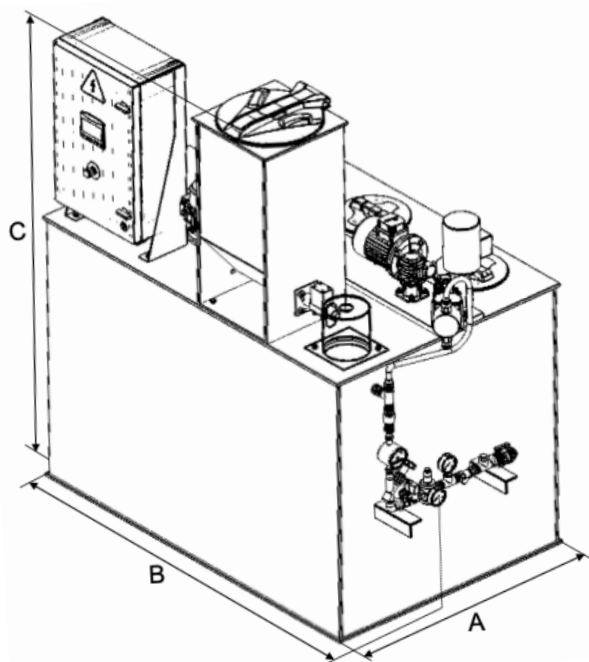
- Automatic powder hopper loader.
- Vault breaker vibrator.
- Minimum level sensor in the hopper of the powder dispenser or liquid tank.
- Prefabricated post dilution units.
- Stirrer in the third compartment.

ADVANTAGES

- Considerable saving of polymer.
- Accuracy in preparation and dosing, optimizing treatments.
- Space saving and centralized installation.



TECHNICAL DATA



POLITOP MODEL	Nominal production (l/h)	Volume (l)	A (mm)	B (mm)	C (mm)	Water inlet	Pump aspiration	Emptying	Overflow	Weight (Kg)
AP - AE - AD 5	550	650	1.000	1.200	1.550	1/2"	1 1/2"	1"	1 1/2"	145
AP - AE - AD 8	850	1.000	1.000	1.700	1.550	1/2"	1 1/2"	1"	1 1/2"	160
AP - AE - AD 12	1.200	1.350	1.000	1.700	1.790	1/2"	1 1/2"	1"	1 1/2"	200
AP - AE - AD 20	2.000	2.120	1.000	2.200	1.950	3/4"	2"	1"	2"	265
AP - AE - AD 30	3.000	3.210	1.000	3.200	1.950	1"	2"	1"	2"	380
AP - AE - AD 40	4.000	4.320	1.400	3.200	2.050	1"	2"	1"	2"	560
AP - AE - AD 60	6.000	6.265	1.600	3.200	2.400	1 1/2"	2"	1"	2"	710
AP - AE - AD 80	8.000	8.400	1.600	4.200	2.400	1 1/2"	2"	1"	2"	835
AP - AE - AD 100	10.000	11.300	2.100	4.200	2.400	1 1/2"	2"	1"	2"	1.150

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Avda. Monte Boyal, 47 - Pol. Ind. Monte Boyal
Casarrubios del Monte - 45950 - Toledo - España
Tel: + 34 918 188 145 - Mail: info@politech.es
Web: www.politech.es

POLITECH
EQUIPOS Y TECNOLOGÍA

