

Automatic Polyelectrolyte Preparers Equipment for the preparation of the solution from powder, emulsion or dual

The solutions of polyelectrolyte are polymers that possess electrolytic groups, which favors the processes of separation between the solid and liquid phases. To optimize its use, Dim Water Solutions offers different systems intended for automatic and continuous preparation.

The **advantages** of these equipments are several and of great importance for the processes in which it is used:

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



Applications of our equipment:

- Treatment of drinking water and industrial process.
- Waste water 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, mineral treatment, etc...



General 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 in polypropylene PPH, and optionally in INOX. With three compartments, threaded inspection ports, and drain connection.
- INOX propellers designed and optimized for a homogeneous blend.
- **Volumetric dispenser** made of the material of the tank and provided with dosing screws of special design for working with polyelectrolyte.
- Electrical protection and control panel, with touch screen, ready for manual / automatic operation with emergency stop and wiring.
- **Heating resistance** and methacrylate peephole in dust discharge tube.
- **Ultrasonic level probe** for very high, high, low and very low level with warning alarms.







Automatic Polyelectrolyte Preparers in Powder, Emulsion and Dual. Models: DimW Basic and DimW Top

Version for Polyelectrolyte Powder (DWAP)

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 have **stirrers**.

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.

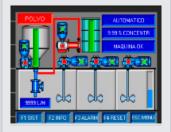
Version for Polyelectrolyte in Emulsion (DWAE)

The dispenser is supplanted by a **special pump** for liquids of **high viscosity.**

Version for Polyelectrolyte in Powder and Emulsion (Dual) (DWAD)

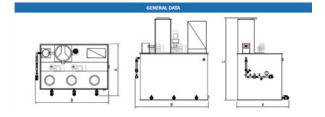
Prepared for operation with polyelectrolyte powder and emulsion.

Model DimW Top, improved system



With color **touch screen** easy operation with display and control of all parameters.

In addition, it includes automatic regulation of dosage percentages through **control software**.



MODEL	TOTAL VOLUME	A mm	B mm	C mm	WATER INLET	PUMP ASPIRATIONS	ЕМРТҮ	OVERFLOW	EMPTY WEIGHT
	Lts	mm	mm	mm					
DWAP - DWAE - DWAD 5	650	1150	1150	1690	1/2"	1 1/2"	1"	1 1/2"	145
DWAP - DWAE - DWAD 8	1000	1150	1650	1690	1/2"	1 1/2"	1"	1 1/2"	160
DWAP - DWAE - DWAD 12	1350	1150	1650	1690	1/2"	1 1/2"	1"	1 1/2"	200
DWAP - DWAE - DWAD 20	2120	1150	2150	1800	3/4"	2"	1"	2"	265
DWAP - DWAE - DWAD 30	3210	1150	3150	1800	3/4"	2"	1"	2"	380
DWAP - DWAE - DWAD 40	4320	1400	3150	2050	1"	2"	1"	2"	560
DWAP - DWAE - DWAD 60	6265	1650	3150	2300	1 1/4"	2"	1"	2"	710
DWAP - DWAE - DWAD 80	8400	1650	4150	2300	1 1/2"	2"	1"	2"	835

Automatic Preparers of Polyelectrolyte in Emulsion. Model DimW Basic (DWAE)

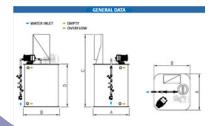


The emulsion polyelectrolyte is extracted from its storage drum by means of the **pump** which injects it, in the desired ratio, into the dilution water manifold.

The pump is specially designed for liquids with viscosity up to 8,000 Cps in standard version and up to 50,000 Cps on request.

Both products are pre-mixed by means of a **high performance static mixer** and enter the preparation tank.

The tank design and the continuous action of the agitator guarantee a suitable mixture for a good dilution.



MODEL	CAPACITY	A	В	c	Ď	WATER INLET	PUMP ASPIRATIONS	OVERFLOW
	Lts	mm	mm	mm	mm			
DIMW BASIC DWAE 5	500	900	900	1700	1000	3/4"	1 1/2"	1 1/2"
DIMW BASIC DWAE 7	700	1000	1000	1700	1000	3/4"	1 1/2"	1 1/2"
DIMW BASIC DWAE 10	1000	1000	1000	1700	1500	3/4"	1 1/2"	1 1/2"

