

Polymer Preparation System



Applications

Polymer Preparation System (or “Powder Dispensing Dissolver”) is a auxiliary auto-equipment, which can prepare and throw polymer solution continually. It can complete the chemical combination and mixing of the polymer continually and efficiently in order to obtain homogeneous and activated solutions. The equipment can be widely used in municipal wastewater treatment, sludge dewatering treatment and other technical treatment.

Structure And Working Principles

Polymer Preparation System applies a jet mixer, using high-speed water power to break up the polymer powder which will improve the fineness, increase the contact of water and polymer powder and reduce the time of dissolution. The equipment adopts the design of three tank overflow combination, that is, mixing, aging and storing. The proportion difference caused by the gravity and solubility will automatically separate the dissolved and undissolved solution. Homogeneous degree of the solution will be improved by stirring of the low-speed agitator afterwards.

Features

- ◆ Continuously working with 3-tank integration design (mixing tank, aging tank, storage tank), easy to operate and maintain, low total cost of ownership
- ◆ CJY1 can be extended as a more automatic 2 storage tank type in accordance with the actual needs
- ◆ With powdered or liquid state (optional) dual feed design to meet different needs. Proportional allocation function makes it possible to prepare liquid concentration by requirements
- ◆ With uniform and moderate concentration to reduce the agglomeration causing by the improper manual allocation. Blocking of pipe or pump, unnecessary maintenance costs and powder expenses could be well avoided
- ◆ Powder feeding hopper with anti-condensation, heating and insulation function can avoid the agglomeration or deterioration
- ◆ Powder feeder with RPM LCD display makes the powder feed rate and concentration more precise controlled (CJY3 Only)
- ◆ Powder/liquid mixer won the new patent product design, the fusion effect is 100% (CJY3 Only)
- ◆ Unique design of automatic intermittent operation and cross mixing function at stand-by time makes the uniform solution always working in the best condition (CJY3 Only)
- ◆ When powder feeding hopper reaches the minimum stock, led light warning and automatic stop function makes overall maneuverability more perfect

Technical Parameter

Model	CJY500	CJY1000	CJY1500	CJY2000	CJY3000	CJY4000
Q L/Hour	500	1000	1500	2000	3000	4000
Dimension mm	900x1500x1650	1000x1625x1750	1000x2440x1800	1220x2440x1800	1220x3200x2000	1450x3200x2000
Power Kw	0.37	0.37	0.37	0.37	0.37	0.37
Mixer Paddle Dia mm	200	200	300	300	400	400
Mixer Spindle speed rpm	120	120	120	120	120	120
Mixer Power kw	0.2x2	0.2x2	0.37x2	0.37x2	0.37x2	0.37x2
Dosing pump Flow m3/h	0.5	1.0	1.5	2.0	3.0	4.0
Dosing pump Lift meter	10	10	10	15	15	15
Dosing pump Power Kw	0.75	0.75	1.1	1.1	2.2	2.2
Inlet Pipe mm	25	25	32	32	50	50
Outlet Pipe mm	25	25	25	25	40	40

Polymer Preparation System is used for:

- ◆ Dosing coagulant, filter aids, disinfection and acid-base fluid for water treatment.
- ◆ Dosing agentia in cooling water and circulating water, for example scale inhibitor.
- ◆ Dosing acid solution, alkaline solution and other solutions in printing and dyeing industry.
- ◆ Strong technical team and strict final inspections ensure stable quality and long service life of our chemical dosing system.