



FP-009 Auto Batch Single-stage Powder Dissolver

Auto Batch Single-stage Powder Dissolver

The powder make-up unit mixes up the chemical/polymer powder and water spirally in the premixing device, by a constant dosing of powder into liquid to make-up a precise concentration of solution.

The single-stage dissolver can achieve the purpose of chemical/polymer mixing and aging in one unit to eliminate pumping. The matured chemical solution is then transferred to additional storage tank for demand.

Applications :

Make-up chemical powders (polymer, powdered active carbon and lime) with water to form solutions at low or medium rates.

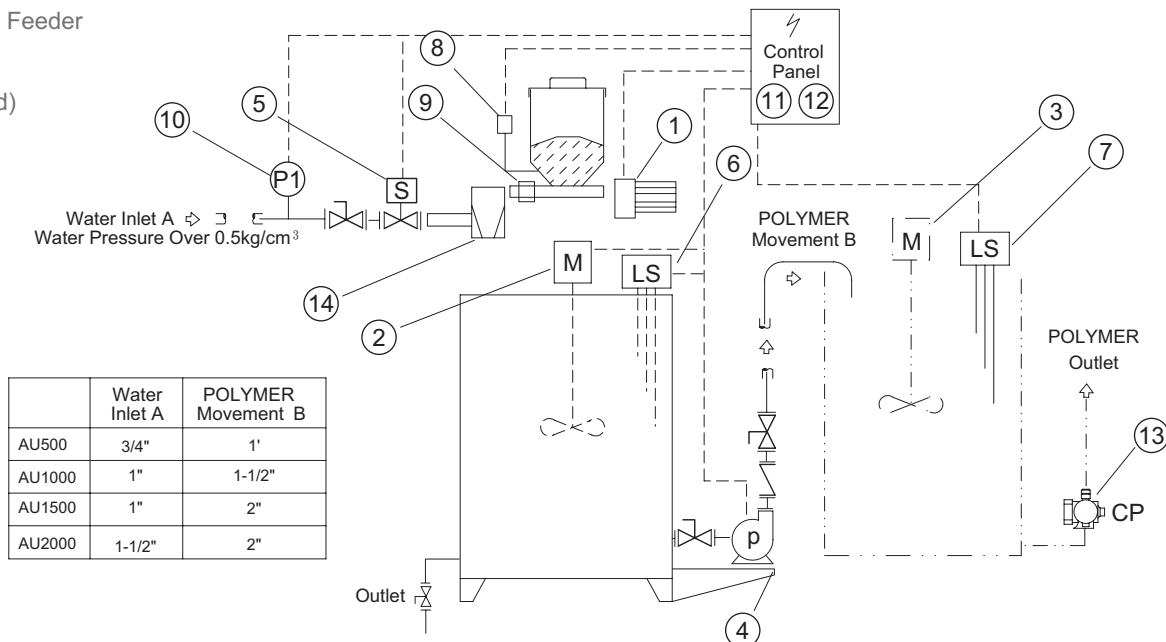
Features:

- > Dual auto and manual switch operation modes.
- > Batch operation to prevent the faults of shortage and unstable flow rate.
- > "NO TOUCH" design of the mixer to prevent clogging.
- > Compact footprint design
- > High operation rate.
- > Extensible storage tanks.

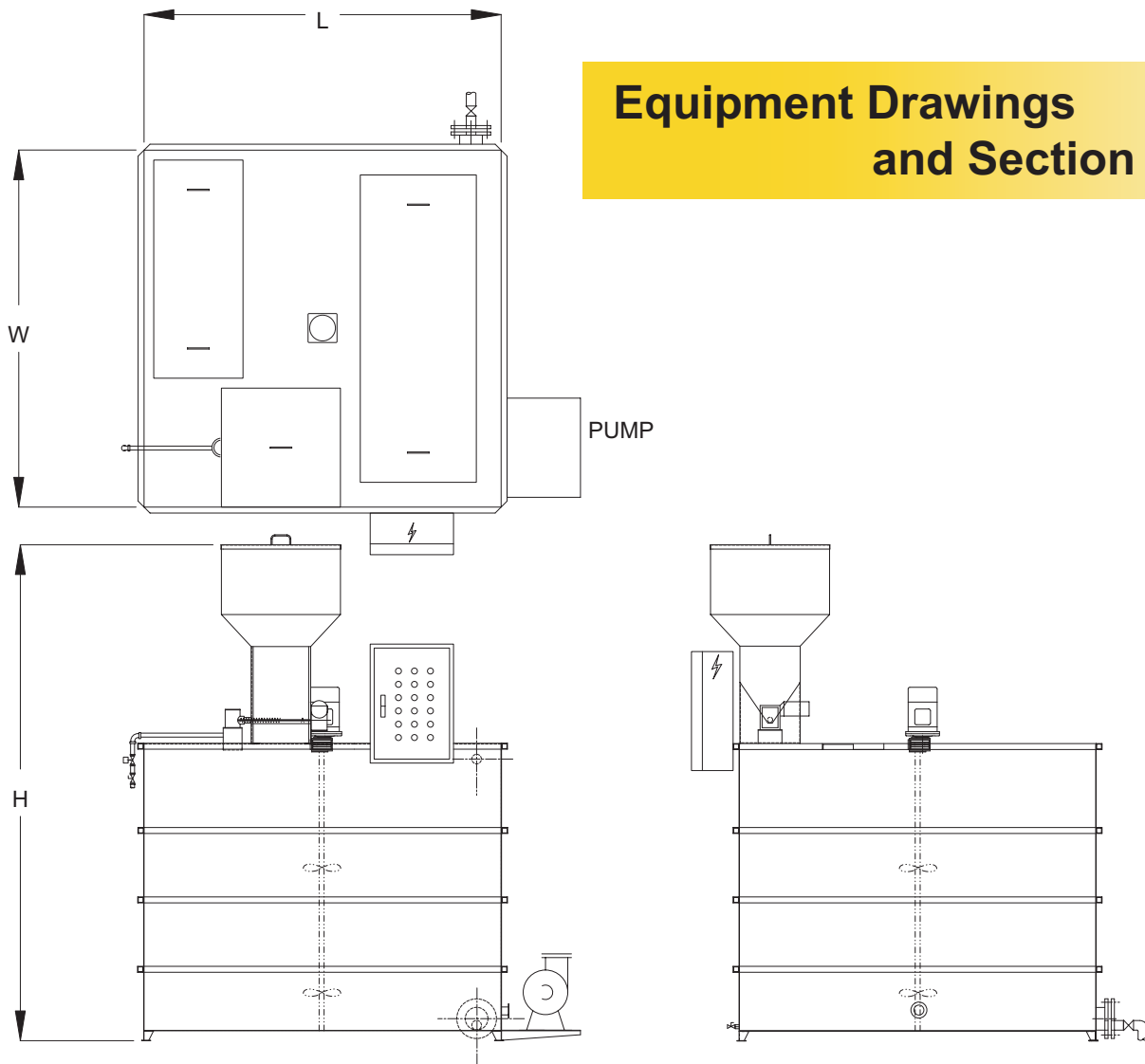


Equipment Process

- ① M1 Motor of Powder Screw Feeder
- ② M2 Agitator (Mix Tank)
- ③ M3 Agitator (Storage Tank Excluded)
- ④ M4 Transfer Pump
- ⑤ SV1 The Inlet Electromagnetic Valve
- ⑥ LS1 Mix Tank Meter
- ⑦ LS2 Storage Tank Meter (Excluded)
- ⑧ LS3 Powder Storage Tank Meter (Optional)
- ⑨ H Heater
- ⑩ P1 Pressure Gage (Optional)
- ⑪ T1 Inlet Time
- ⑫ T2 Mix Time
- ⑬ CP Quantity Control Pump (Optional)
- ⑭ PM Premixing Device
- Power Line
- Excluded



Equipment Drawings and Section Views



Auto Batch Single-stage Powder Dissolver

Specifications

	AU 500	AU 1000	AU 1500	AU 2000	AU 3000	AU 4000
Capacity (Max.)	500	1000	1500	2000	3000	4000
Std. Powder Qty. (L)	25	35	35	35	100	100
Ext. Powder Qty. (L)	35	100	100	150	150	300
Dosing Rate (Kg/hr)	0.25 ~ 1.5	0.5 ~ 3	0.75 ~ 4.5	1 ~ 6	1.5 ~ 9	2 ~ 12
Pressure (Kg/cm ²)	1	1	1	2	2	2
Power (Kw)	1.5	2	3.5	3.5	5.5	5.5
Dimension (M) L×W×H	0.9×0.9×2	1.1×1.1×2	1.3×1.3×2	1.3×1.3×2.4	1.5×1.5×2.4	2.1×2.2×2.5
Concentration (%)	0.05 ~ 0.3 Adjustable (Customization Available by Request)					