

EQUIPMENT



CHEMICAL PREPARATION UNIT

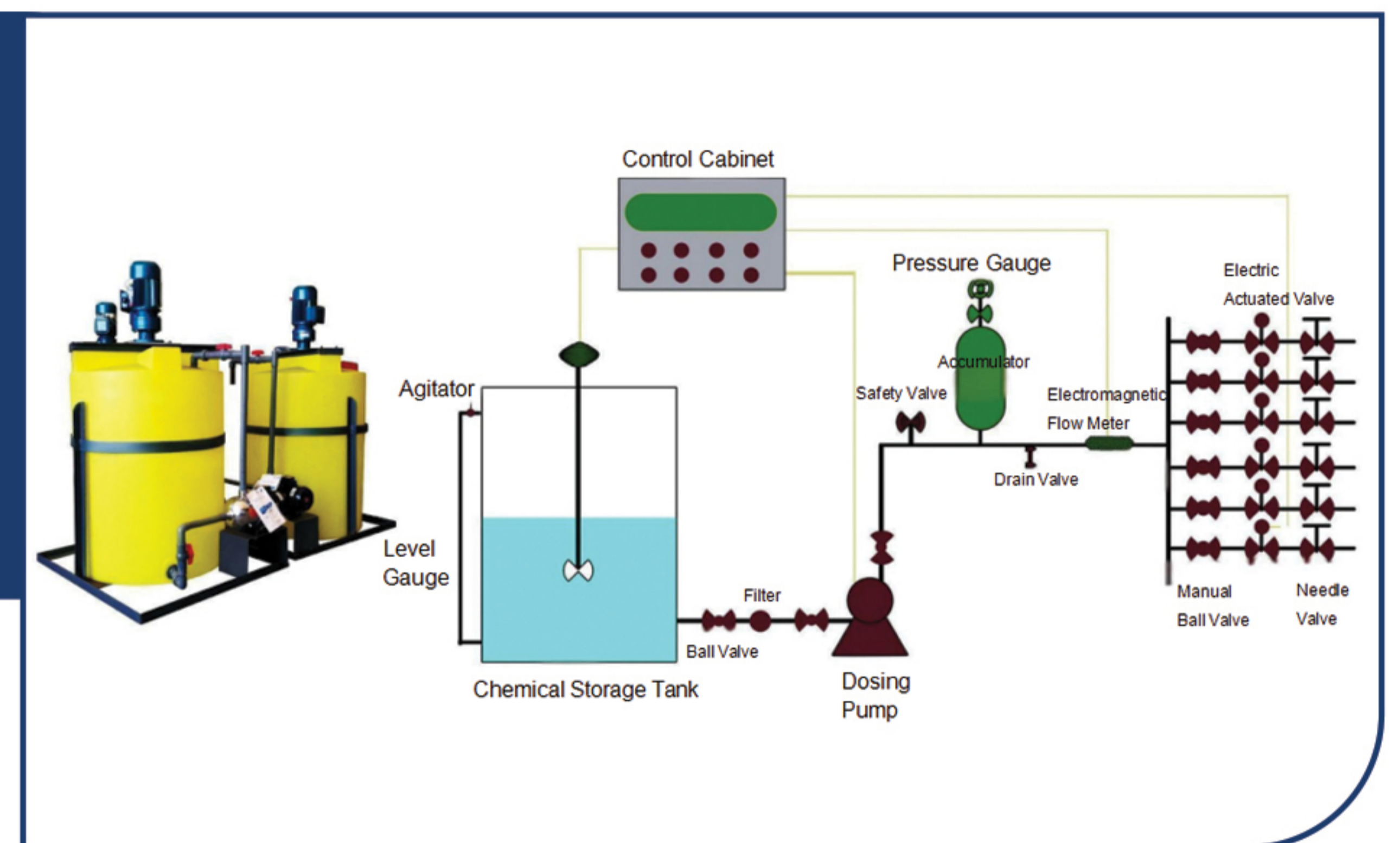
CHEMICAL PREPARATION UNIT

- **Simple and Cost-Effective Solution:** Designed as a practical dosing system with low capital and operating cost, making it ideal for small-scale applications.
- **Integrated Dosing System:** Combines mixing, dosing, water inlet, and washing functions in one compact unit for streamlined operation.
- **Reliable Chemical Dosing Performance:** Ensures stable and consistent dosing through mechanical metering and controlled mixing processes.
- **Corrosion-Resistant Construction:** Manufactured from high-quality PE material, offering strong resistance to acids, alkalis, and harsh chemical environments.
- **Compact and Space-Saving Design:** Small footprint allows easy installation in limited spaces and skid-mounted systems.
- **Flexible Application Range:** Suitable for various industrial and water treatment processes, including cooling water systems and chemical preparation.
- **Low Maintenance Requirements:** Simple mechanical structure reduces maintenance needs and ensures long-term reliability.



Working Principle

The Chemical Preparation Unit operates through a simple dosing and mixing process. Water enters the system through the inlet and is directed into the mixing tank. Polymer solution is prepared through mechanical stirring, ensuring uniform mixing and stable concentration. The prepared solution is then transferred through the dosing pump, which delivers the chemical at a controlled flow rate to the application system. Washing water is used to maintain system cleanliness and prevent clogging.



Features

Standard Features

- Integrated system including mixer, dosing pump, water inlet, and washing inlet
- PE dosing tank with high resistance to acid and alkali
- Mechanical metering pump with adjustable flow rate
- Stirring motor for uniform chemical mixing
- Simple and compact skid-mounted structure
- Stable operation with low maintenance requirements

Options & Accessories


- Manual or automatic control system
- Different pump head materials (PVC, PTFE, PVDF, 316 stainless steel)
- Customised tank volume (200 L to 2000 L)
- Adjustable mixer power and configuration

Specifications and Parameters

Model	Capacity (L/h)	Dimension (mm)			Power (kW)	Mixing Motor (kW)	Dosing Pump (kW)
		L	W	H			
AQT-500L-PE-1	500	830	1410	1580	1	0.75	0.25
AQT-500L-PE-2	1000	1660	1410	1580	2	0.75×2	0.25×2
AQT-500L-PE-3	1500	2490	1410	1580	3	0.75×3	0.25×3
AQT-1000L-PE-1	1000	1120	1720	1706	1	0.75	0.25
AQT-1000L-PE-2	2000	2240	1720	1706	2	0.75×2	0.25×2
AQT-1000L-PE-3	3000	3360	1720	1706	3	0.75×3	0.25×3
AQT-2000L-PE-1	2000	1400	2000	2200	1.55	1.1	0.55
AQT-2000L-PE-2	4000	2800	2000	2200	3.3	1.1×2	0.55×2
AQT-2000L-PE-3	6000	4200	2000	2200	4.95	1.1 ×2	0.55×3

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