

1 Pressure Flotation Unit

1-1. Elepon E.C.A.P. Corporation - Dissolved-air Flotation Unit -

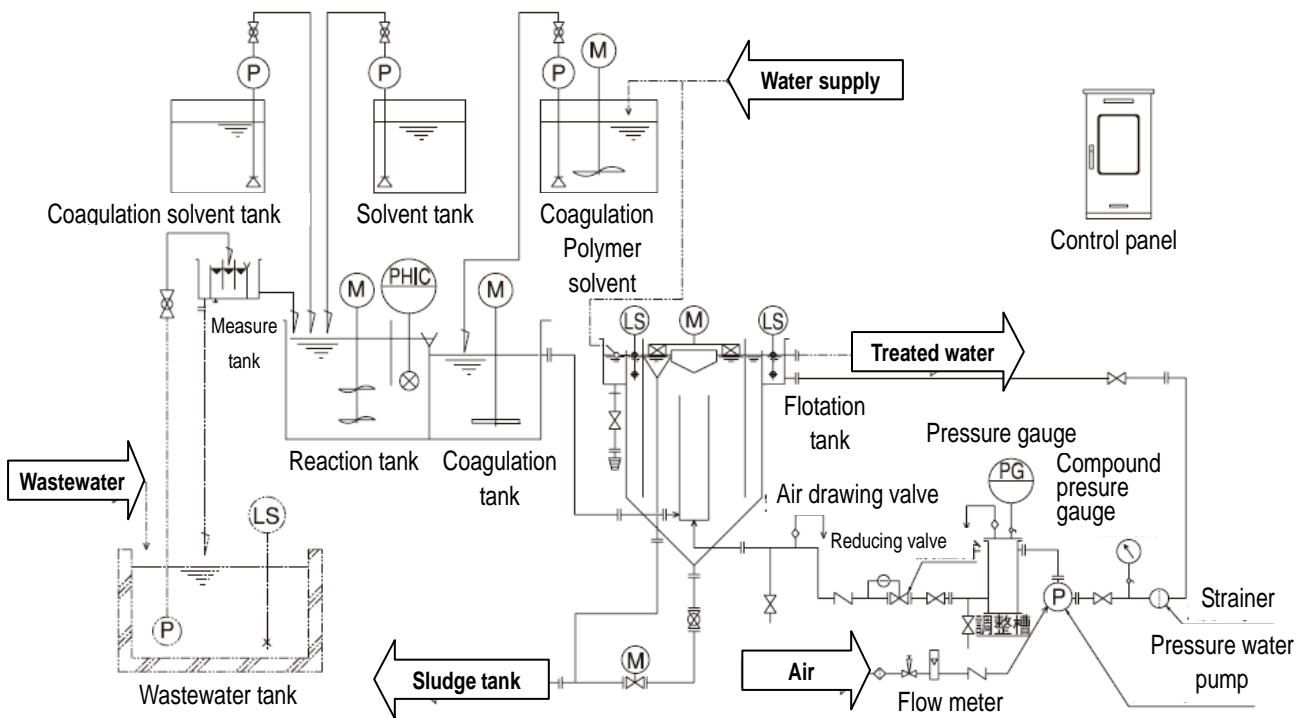
■ Features

- Changeable operation on shoveling floating sludge: Flotation tank equips shoveling sludge machine with circular cylinder shape and center-drive method, its treated water flows out through overflow weir from overflow ditch
- Additional function of automatically discharging sludge of sedimentation sludge: Sludge of sediment on the bottom in flotation tank can be automatically drained.



■ Overview

- Dissolved-air Flotation Unit 'PAL series' is the equipment which generates micro bubble by pressure pump, floats its flock, and then separates solid and liquor.
- Compressor and line mixer is not necessary so that the method of generating micro bubble by stir, mixer, dissolution inside, is adopted.



Flow diagram of treatment system

■ Performance/Specifications

- Specifications of PAL series

Item	Type	PAL-013	PAL-033	PAL-053	PAL-083	PAL-103
Standard treatment volume (m ³ /hr)		0.5 - 1	1 - 2.5	2.5 - 5	5 - 7.5	7.5 - 10
Reaction tank volume (L)		120	300	600	880	1,170
Coagulation tank volume (L)		100	170	350	500	670
Flotation tank volume (m ³)		1.1	2.3	4.6	6.3	8.5
Electric power (kW)		50Hz: 3.1 60Hz: 2.3	50Hz: 5.4 60Hz: 3.9	50Hz: 5.8 60Hz: 4.3	50Hz: 8.3 60Hz: 6.5	50Hz: 9.1 60Hz: 7.3
Equipment weigh (t)		2.4	3.0	3.8	4.6	6.0
Operation weigh (t)		4.5	6.5	10.7	13.0	19.5

■ Applications/Experience

- Wastewater contained oil such as car washing, remove grease
- Wastewater from machine manufacturing/assembly factory and food factory
- Wastewater contained suspended solid, surfactant
- Wastewater from painting, dyeing etc.

■ Reference

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