

CPS Custom Process Systems

CPS – Wastewater Treatment Systems use CTECH's **PolyClay** technology to clarify spent solutions, emulsions and industrial effluent. The CPS treatment system provides process design flexibility to meet specific waste removal needs. Standard systems can have a throughput capacity of up to 12m³ per hour, with treatment tank sizes ranging from 2 to 15m³ for optimum efficiency and economy. Process tanks are available in stainless steel, Polypropylene, Polyethylene and GRP.

EQUALISATION TANKS

The Equalisation Tank volume is based on the system throughput capacity, with mixers installed to keep solids in suspension.

TREATMENT TANKS

Treatment Tanks are designed with a conical bottom and baffles. Decant connections are located on the straight side of the tank. Mixers are installed in the tanks, mounted on an integrated support bridge.

POLYCLAY DOSING FEEDER

Various feeder sizes are available ranging from 150 litres up to 1000 litres suitable for bulk bags. The use of load cells improves dosing accuracy.

MIXERS

Mixers used on all CPS systems have been selected to provide optimum process results during the addition of PolyClay into the Treatment Tank and for solids suspension in the Equalization Tank.

SLUDGE TANKS

Sludge Tanks are used for holding sludge from the Treatment Tank to enable batches to be processed in the Treatment Tank independently of the Filter Press operation cycle.

FILTER PRESS AND BAND FILTER

Either dewatering device or even a combination can be selected depending on the volume and type of sludge.

CONTROL PANEL

The CPS system can be operated in manual or manual/automatic mode. Control panels designed to meet specific site requirements can also be supplied.

OPTIONS

Since the CPS system is custom designed, options can be added to handle specific treatment requirements.

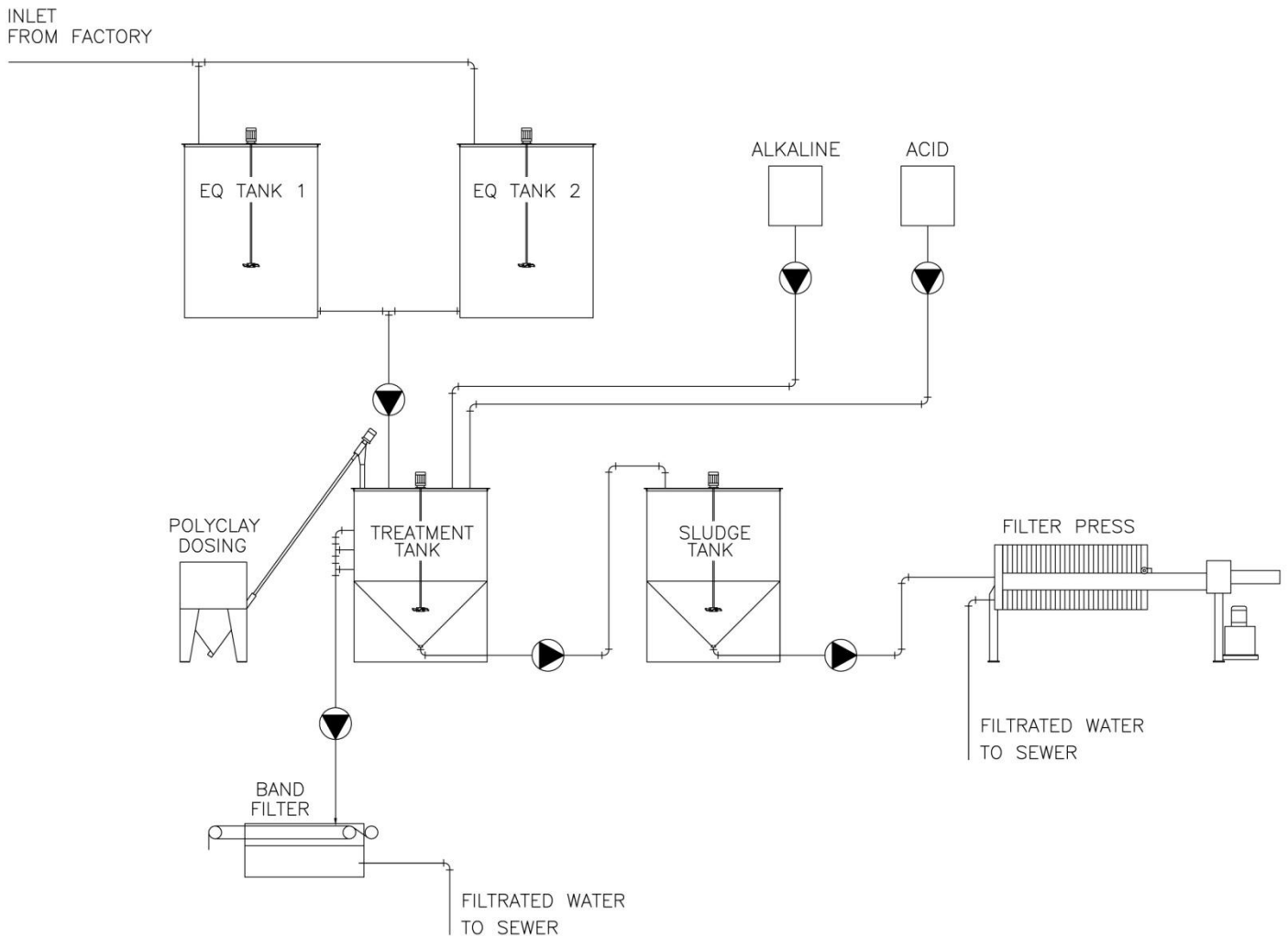


CPS SYSTEM KEY FACTS

The CPS system is a custom designed system that is installed, piped, wired and tested on site. The key features are:

- System can be designed to handle virtually all batch sizes.
- All materials used for the equipment are chosen for their durability
- Treated water and sludge can be filtered or dewatered with Band Filters and/or Filter Presses
- System produces 20 to 45% dry solids cake on average in combination with Band Filters and up to 60% dry solids cake with Filter Presses.
- Automation options are available using PLC's and touch screens for ease of operation.
- Process is easy to operate, no highly skilled operators required.

Typical Flow Chart of a CPS Treatment System with PolyClay



EXAMPLES OF MODELS AVAILABLE

Model	Batch size	Maximum throughput capacity (depending on type of sludge)
CPS 2000	2000 litres	2000 litres per hour
CPS 4000	4000 litres	4000 litres per hour
CPS 6000	6000 litres	6000 litres per 75 minutes
CPS 10000	10000 litres	10000 litres per 90 minutes
CPS 15000	15000 litres	15000 litres per 90 minutes

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