

Automatic polymer preparation plant



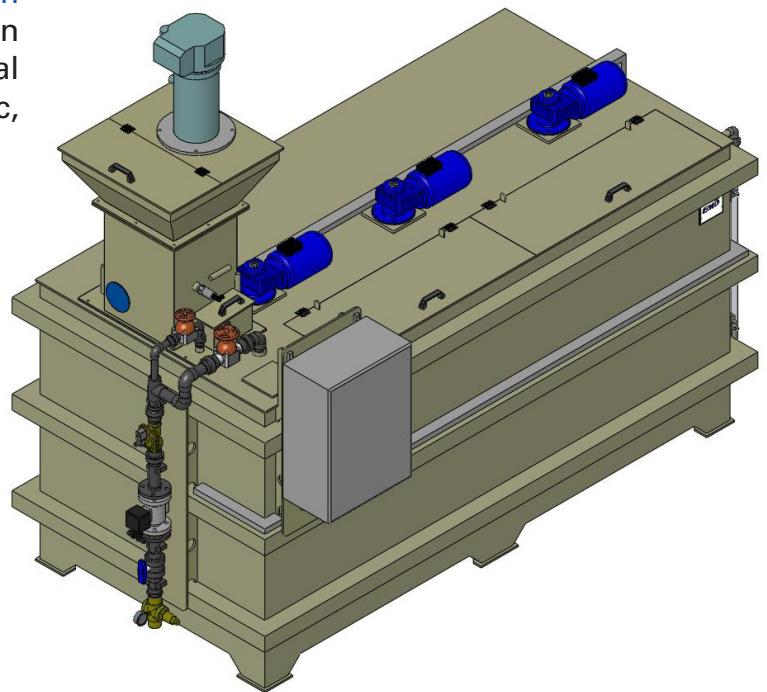
Flocculation is most important step in the treatment of sludge produced either by urban or industrial wastewater treatment plants. To remove water from any type of sludge, **polymer** shall be added in certain quantity, this process is called flocculation. As soon as dosed in sludge, polymer aggregates in order to create flocs which can be thickened or dewatered.

EMO has developed a full range of **continuous and automatic polymer preparation plants** designed to process needs (solution concentration, maturation time) and external conditions. Prepared polymer can be anionic, cationic, powder or liquid type.



ADVANTAGES

- Wide range
- Robust construction
- Quality components and materials
- Compact installation
- Flexibility of process
- Cleanliness and safety for the operator





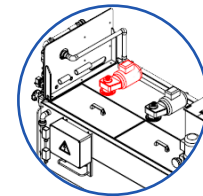
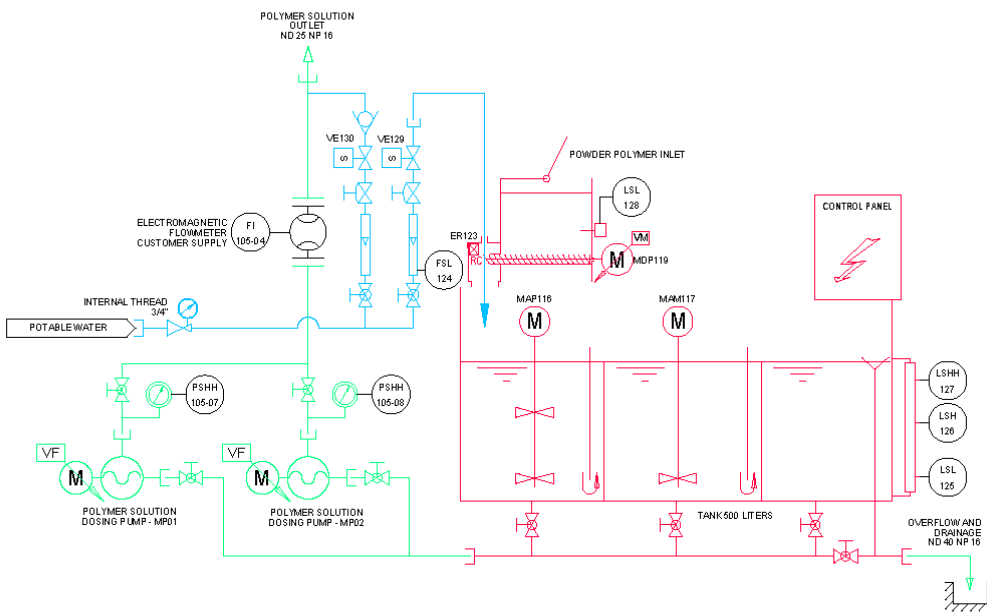
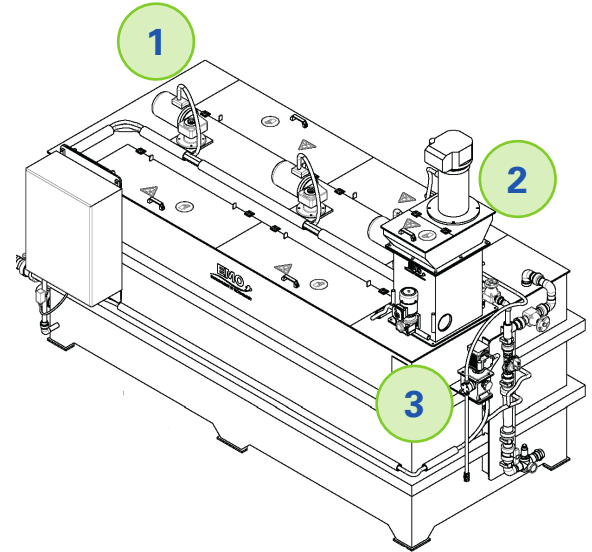
OPERATING PRINCIPLE

The continuous and automatic plant consists of one tank divided into 3 compartments: **preparation**, **maturation** and **pumping**.

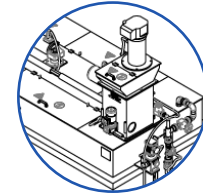
Tank manufacture can be either stainless or HDPP.

Maturation tank is equipped with level sensor. When low level is reached, polymer preparation plant starts polymer preparation. Feed water and powder dosing are in correlation to prepare 1 to 5 gr/l primary polymer solution.

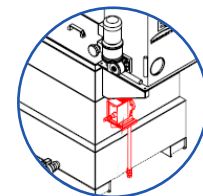
Prepared solution goes through three tanks through siphoid wall.



Option 1
Third mixer



Option 2
Powder vacuum feeder



Option 3
Liquid polymer dosing pump



SELECTION TABLE

Model	Without secondary dilution	With secondary dilution
CPA 0.5	330 l/h	1650 l/h
CPA 1	660 l/h	3300 l/h
CPA 2	1320 l/h	6600 l/h
CPA 3	1980 l/h	9900 l/h
CPA 4	2640 l/h	13200 l/h
CPA 5	3300 l/h	16500 l/h
CPA 6	3960 l/h	19800 l/h



EMO sas,
4 rue Lépine – PA La Richardière, BP 53209, 35530 Noyal sur Vilaine, France
+ 33 (0)2 99 86 02 03 - emo@emo-france.com

www.emo-france.com

Certification ISO9001 - ISO14001



A company of **SEMOSIA**
GROUP