

# seko

## PolyCendos

Effective polymer metering



Your Choice,  
Our Commitment

# SEKO's PolyCendos Series has been specifically designed to provide effective solutions to the needs of Water Treatment Customers.

The PolyCendos family offers a complete range of polymer preparation systems. Covering all the most common application needs where polymer solution preparation is required, focused on being easy to install and maintain, with features designed to optimize costs throughout the process.

## A complete range of polymer batching and metering systems.

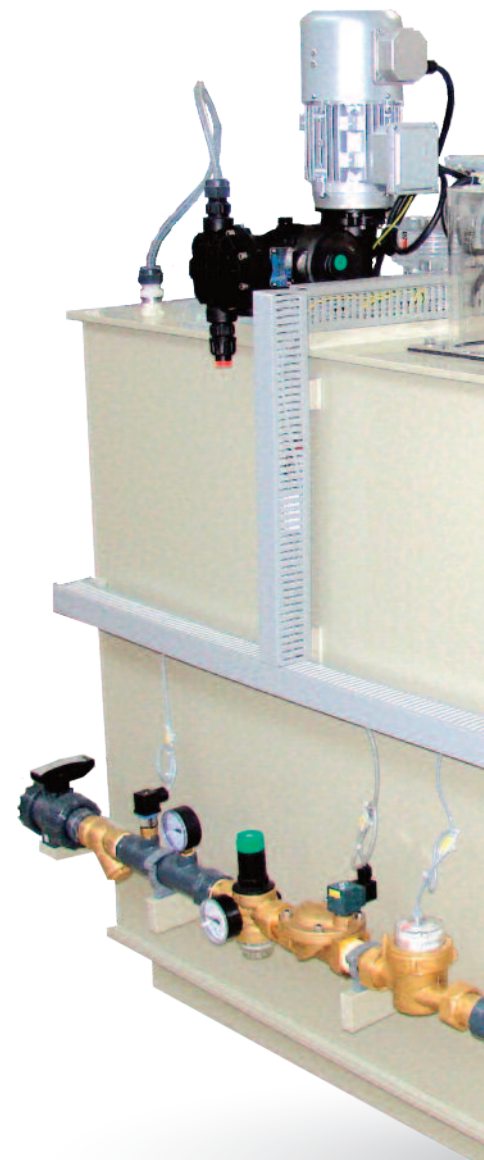
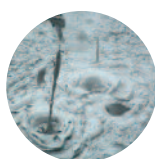
The polymer preparation unit automatically prepares polymer solutions which are used as coagulants for the eventual removal of suspended particles in the water treatment processes of a number of applications from swimming pool maintenance through to the various stages of wastewater treatment, as well as oil recovery, colour removal, paper production and mineral processing.

The PolyCendos family comprises 6 models offering up to 16000 l/h of polymer solution. The range also comes with a variety of electrical control panels, mixers, diaphragm pumps and tank sizes to offer an optimum solution for every application. Its design also means that PolyCendos offers flexible and compact footprint solutions to fit even confined spaces.

## Applications

Using polymers and flocculants considerably facilitates the processes of removing particles and solids suspended in liquid in the following applications:

- Treating potable and industrial processing water
- Purifying waste water
- Treating sludge, in order to improve the performance of centrifuges and filter presses
- Processes for the paper, chemical, petrochemical, mineral processing, canning industries







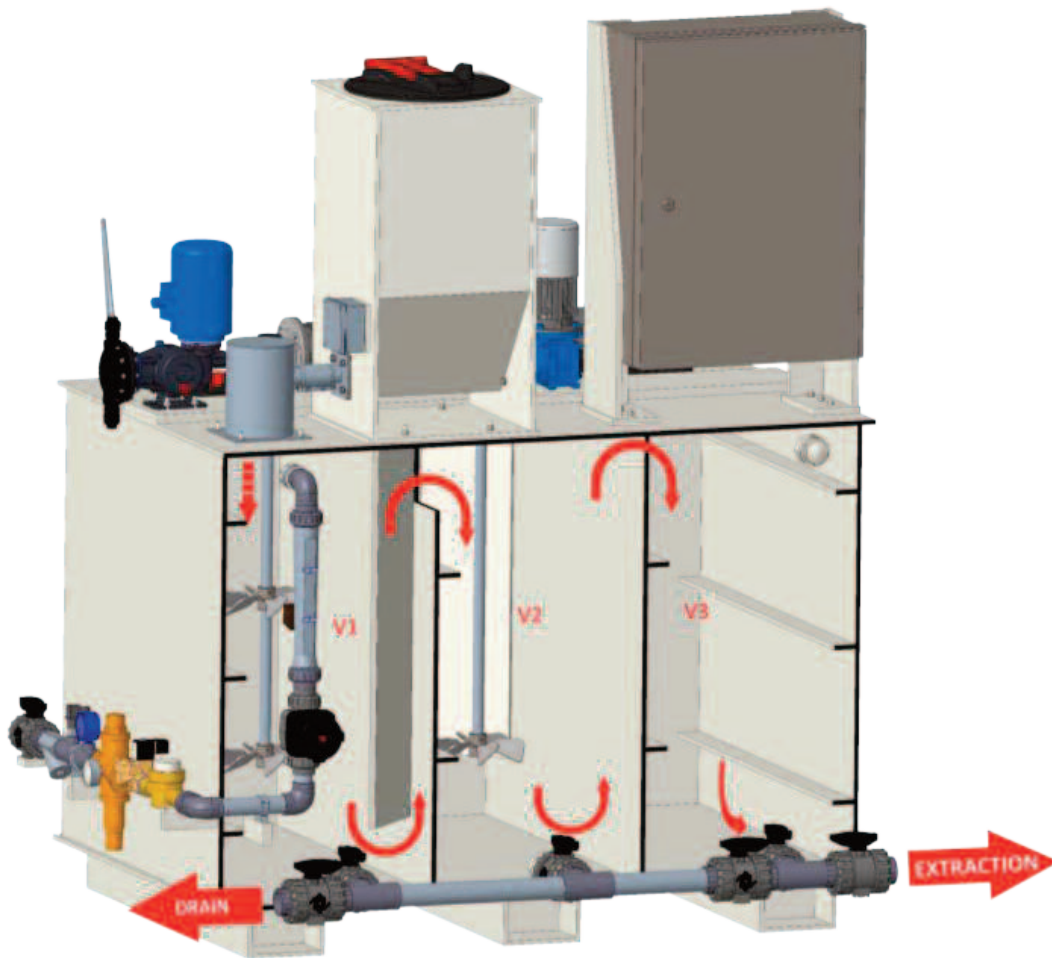
## Construction characteristics

The following are the key elements used in the construction of the PolyCendos range.

- An automatic water supply system comprising a shut-off valve, filter, safety pressure switch, pressure gauge, pressure reducer valve, solenoid valve, water meter with pulses, control valve, flow meter (with flow switch for minimum level flow rate) and special dispensing nozzle (for units that work with powder polymers).
- Tanks made entirely in PPH, with inspection covers and emptying valves for each chamber.
- Customized mixers, optimized to ensure a homogeneous mixture, are made of stainless steel.
- Batching screw made entirely of stainless steel, with batching adjustment managed using a precise speed regulator.
- Electrical protection and control panel, with built-in buttons and controls or touchscreen panel, designed for manual/automatic operation and equipped with emergency stop and wiring to all system components.
- Conductivity level probes for high, low and very low levels with emergency light warning.
- Separate safety level switch for overflow levels (General Fault alarm warning).

## Optional equipment

- Automatic powder hopper loading.
- Minimum level probe in the powder hopper.
- Stirrer in the batching tank.
- Vibrator for hopper.
- Prefabricated post-dilution systems.



## Function

The polymer preparation tank is divided into three chambers: dissolving (V1), maturing (V2) and storage (V3), interconnected by siphons that form a perfect flow between the chambers necessary for the formation of high quality solution.

The dosed polyelectrolyte comes into contact with water. The water/polyelectrolyte mixture then drops into the tank below where the dissolving phase begins. In this first chamber V1, a slow agitator keeps the contents of the tank moving ensuring thorough homogenization of the solution. The siphon transfers the solution to the maturing chamber, V2, where another slow agitator keeps the solution uniform until maturing is complete. Then the solution is transferred to storage chamber V3 from where it can be transferred for use.

The level switches installed in this final chamber control the automatic functions:

**Max and normal level:** when the solution reaches the maximum level, this switch stops the powder dosing unit / liquid polymer dosing pump and closes the water inlet solenoid valve. Whilst level is normal, the switch enables the dosing unit to function and opens the water solenoid valve.

**Minimum level:** when the solution falls to minimum levels and below, this switch stops the dosing pump and sets off an alarm indicator on the electrical control panel.

**Overflow level:** when the solution reaches the overflow point, this switch stops the powder dosing unit/ liquid polymer dosing pump and closes the water inlet solenoid valve preventing delivery of mixed polymer solution to the drain.

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## Effective polymer metering

Triple continuous flow system is designed as a batch flocculation aid for the preparation of polymer solutions featuring a storage tank subdivided into three chambers. **6 models to choose from to fit every application need.**

- Processing of **liquid polymer (0.05–1.0 %)** and **powdered polymers (0.05–0.5 %)**
- Minimal product carry-over
- Extraction of the polymer solution and drainage of the chambers via the front of the storage tank
- User-guided input of the solvent concentration as well as calibration of the powder metering unit and liquid concentrate pump
- Optional PIC Programmable logic
- Controller with **PROFIBUS module**
- Version with terminal box available on request
- **Extraction rate up to 8000 l/h**



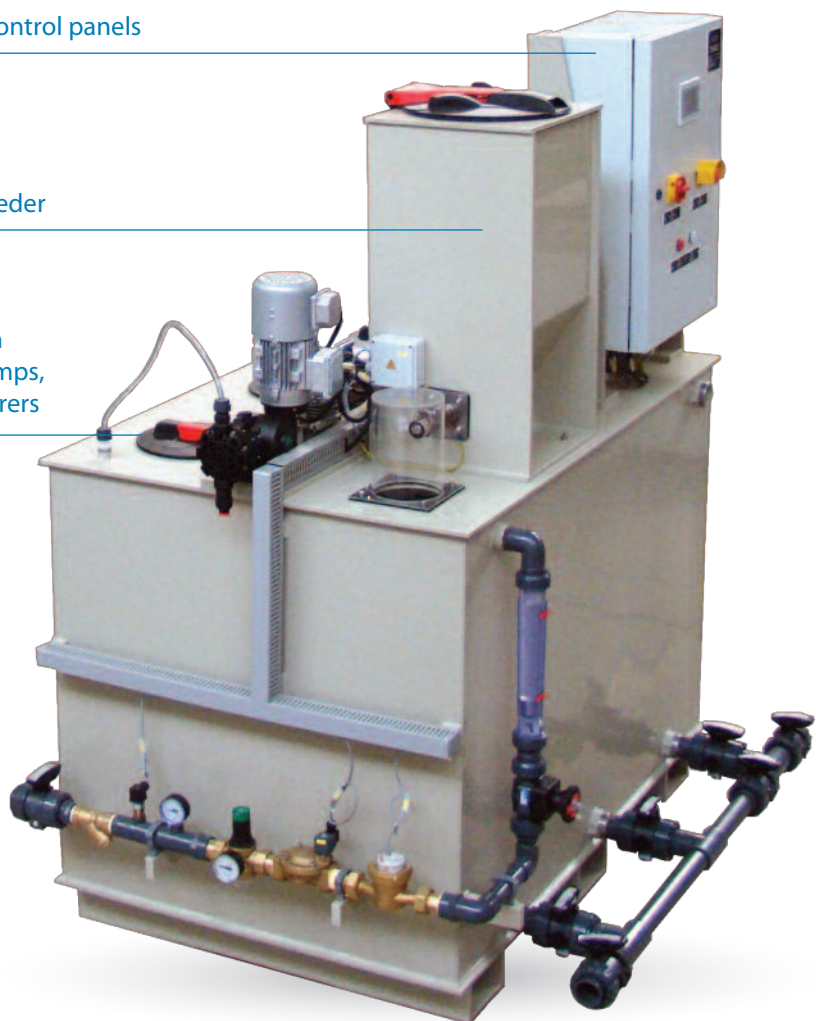
Electrical control panels



Powder Feeder



Diaphragm  
Dosing Pumps,  
Mixers, Stirrers



# Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our reknown flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please visit [www.seko.com](http://www.seko.com)

As part of a process of on-going product development, SEKO reserves the right to amend and change specifications without prior notice. Published data may be subject to change.

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The SEKO logo, consisting of the word "seko" in a bold, blue, lowercase sans-serif font. The letters are closely spaced, with the 'e' and 'k' being particularly prominent.