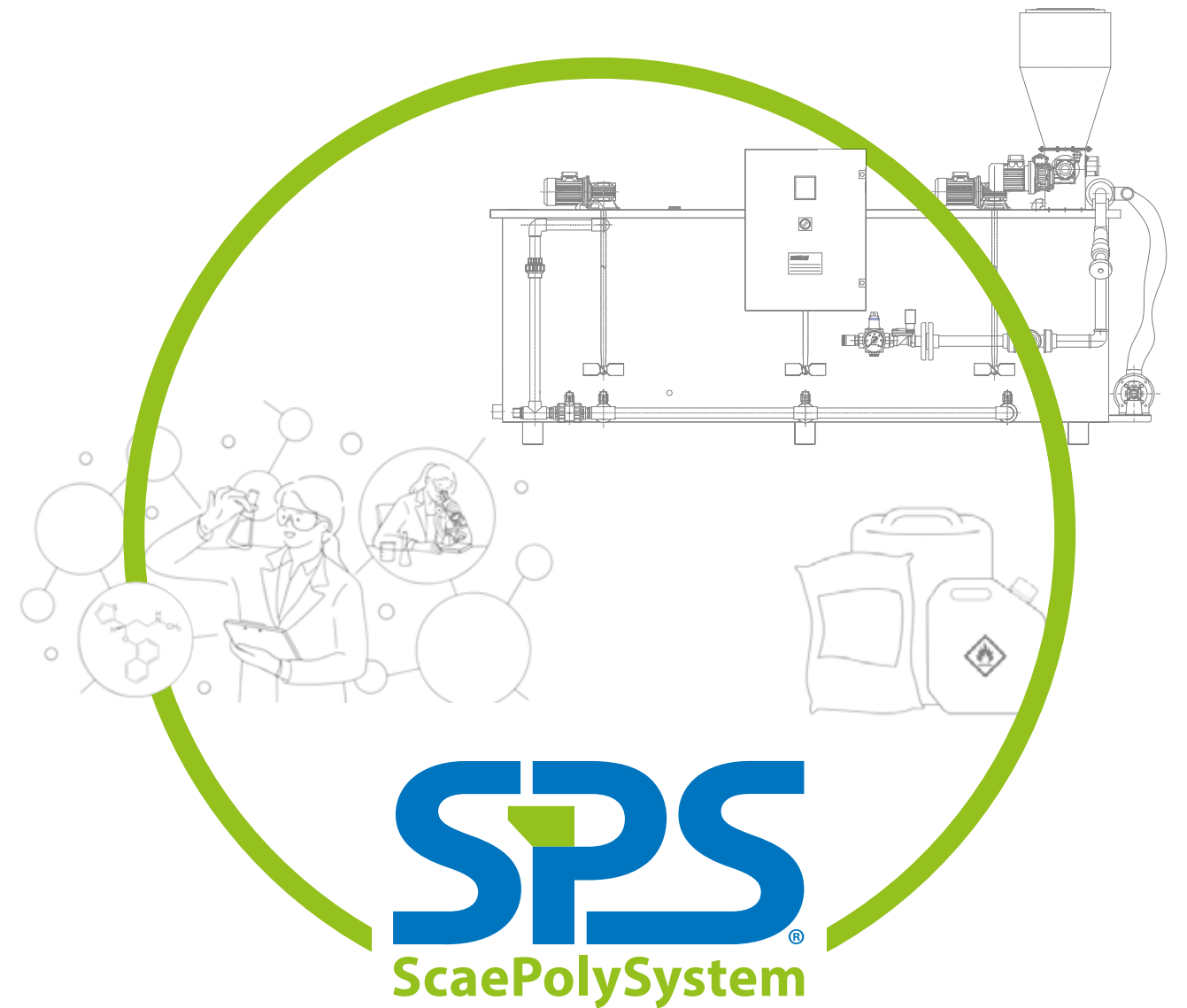
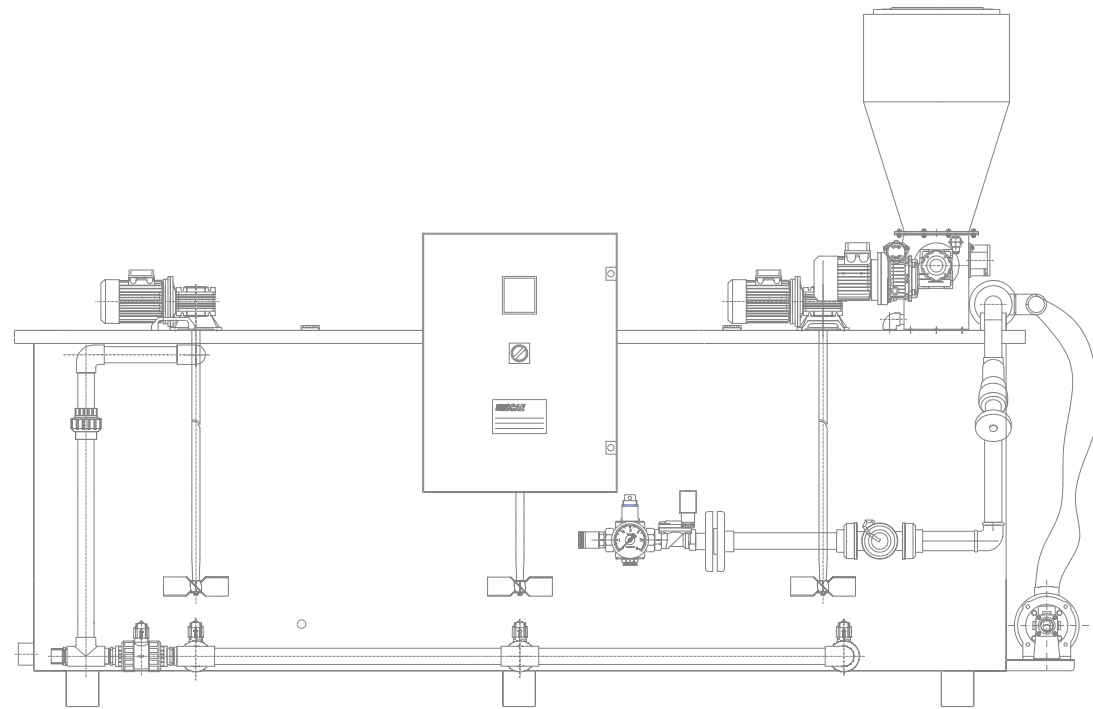




Polyelectrolyte Solutions Systems



SCAE, thanks to its twenty years of experience in the field of sludge and similar dehydration, offers **integrated systems for the automatic preparation of polyelectrolyte solutions in powder and emulsion form** that include the relevant loading activities and routine maintenance over time. A completely innovative approach aimed at relieving the customer of any burden including the supply and mixing of powder “chemicals.”



POLY PREPARATION UNITS

automatic for powders/emulsions

The SCAE Poly Preparation Units PPA are automatic systems for the **continuous preparation** of polyelectrolyte solutions from powder and/or emulsion product. They are mainly used in mechanical sludge dewatering processes performed with centrifugal extractors. Their primary function is to obtain polyelectrolyte solutions at the desired concentration in an absolutely automatic way **without wasting product** and with **perfect dispersion** and homogenisation of the same.

PPA

AUTOMATIC POLY PREPARATION UNIT FOR POWDER / EMULSION

Technical Data

Treated material	Polyelectrolyte powder / emulsion
Capacity	up to 10.000 lt
Flow rate	up to 10.000 lt/h
Mixer	up to n. 03
Hopper capacity	up to 300 lt



Materials and Execution

Tank	Stainless steel AISI 304 or Polypropylene
Agitator shaft and impeller	Stainless steel AISI 304
Hopper	Stainless steel AISI 304
Auger	Stainless steel AISI 304
Electrical Panel	Painted steel or Stainless steel AISI 304

Accessories included

- Anti-condensation heater on hopper
- Powder sensor on hopper

Optionals

- Ultrasonic level sensor for external emulsion polyelectrolyte tank
- Valved bottom drains
- Calibration, adjustment and suction kit single screw electric pump with graduated cylinder
- Pneumatic loader
- Bi Fuel version for poly preparation unit management with both powder and emulsion products



AUTOMATIC POLY PREPARATION UNIT FOR EMULSION MONOTANK

Technical Data

Treated material	Polyelectrolyte emulsion
Capacity	up to 1.500 lt
Flow rate	up to 16.000 lt/h
Mixer	n. 01



Materials and Execution

Tank	Stainless steel AISI 304 or Polypropylene
Agitator shaft and impeller	Stainless steel AISI 304
Electrical panel	Painted steel or Stainless steel AISI 304

Optionals

- Ultrasonic level sensor for external emulsion polyelectrolyte tank
- Calibration, adjustment and suction kit single screw electric pump with graduated cylinder





CHEMICALS

base and formulated

SCAE provides a full range of **base and formulated** chemicals for every industrial application, including those pertaining to food, beverage, meat processing, dairy, and so on.

POWDERS AND EMULSIONS

CHEMICAL PRODUCTS DISTRIBUTION

Over the years, SCAE has managed to collect a large range of important Customers in different industries that rely on our fast and efficient **chemicals supply** service to produce polyelectrolytre solutions in a sustainable way with reduced environmental impact.



The products are used both in civil and industrial wastewater purification processes, containing pollutants of different nature depending on the processes involved. They are especially aimed at companies that need to depurate water in order to reuse it within the processes in use optimizing its **productiveness** i.e. drastically reducing **waste** and operating **costs**.





CHEMICALS MIX

consulting and support

SCAE focuses on concrete process needs by supporting its customers with **customized special formulations** to ensure the best sludge treatment and wastewater purification.

CUSTOMIZED FORMULATIONS

CREATION OF CUSTOMIZED CHEMICAL PRODUCTS

With many years of experience across a variety of commodity sectors, SCAE develops customized polyelectrolyte formulations to meet **special needs of the customer** or a particular application. Directly or in cooperation with our partners, we help companies **efficiently and safely solve their treatment processes** by going beyond mere functionality and without losing sight of the sensitive issue of environmental compliance.



The formulation of polyelectrolyte solutions depends on the specific application and process requirements, but generally includes the following steps:

- polyelectrolyte type selection;
- concentration calculation;
- dissolution;
- pH regulation;
- concentration control;
- testing and optimizations;
- storage and handling.

SCAE is able to offer consulting and support services during both the design and implementation phases, including the usual routine maintenance and extraordinary plant cleaning.





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