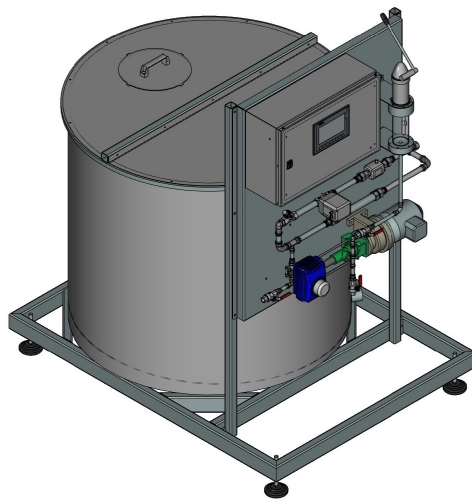


Polymer Inline System „Liquid“, Type WBD 3000



Features

- Automatic polymer preparation system for liquid polymers, regardless of the manufacturer
- Production of the Polymer in "inline" process and receiving tank
- Very compact structure, suitable for small rooms
- Accurate and consistent solution concentration
- Low maintenance with static mixer
- Fully automatic and manually operable
- **Extremely simple commissioning and operation**
- Various designs and many options

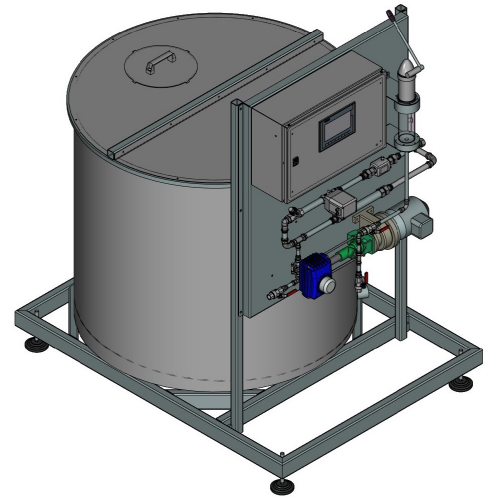
Technical description and process

The polymer inline system unit type **WBD 3000** was developed to enable controlled preparation of liquid polyelectrolytes in water. The unit is suitable for all types of polymers and is therefore manufacturer-independent. The preparation concentration can be adjusted within a wide range. A wide range of concentrations can be run.

The liquid polymer is sucked out of the container by an infinitely variable eccentric screw pump and conveyed to the static mixer. The required amount of water is automatically controlled depending on the preparation concentration. In the static mixer, mixing then takes place in an inline process. The compound thus dissolved is then transferred to the receiving tank to achieve maturation and the associated 100% activation and efficiency.

The **WBD 3000** polymer preparation plant is designed for fully automatic operation. Of course, it can also be operated manually. Due to the few mechanical components, the plant requires low maintenance. Long-term availability is guaranteed.

The basic version of the polymer preparation unit type **WBD 3000** is built for wall mounting. The standard version is primarily intended for stationary operation.



Areas of application

The waterprocesstec polymer inline system unit **WBD 3000** is used in waste water technology, in sludge dewatering, in the treatment of drinking and service water as well as process and circulating water. Many other areas of application in the chemical industry, in power plants or in the paper industry are possible. If you have any questions, we are at your disposal.

Technical Data

Electrical Connection

Supply Voltage 3 x 400VAC + N+ PE / 50Hz
 Power Input ca. 2 KW

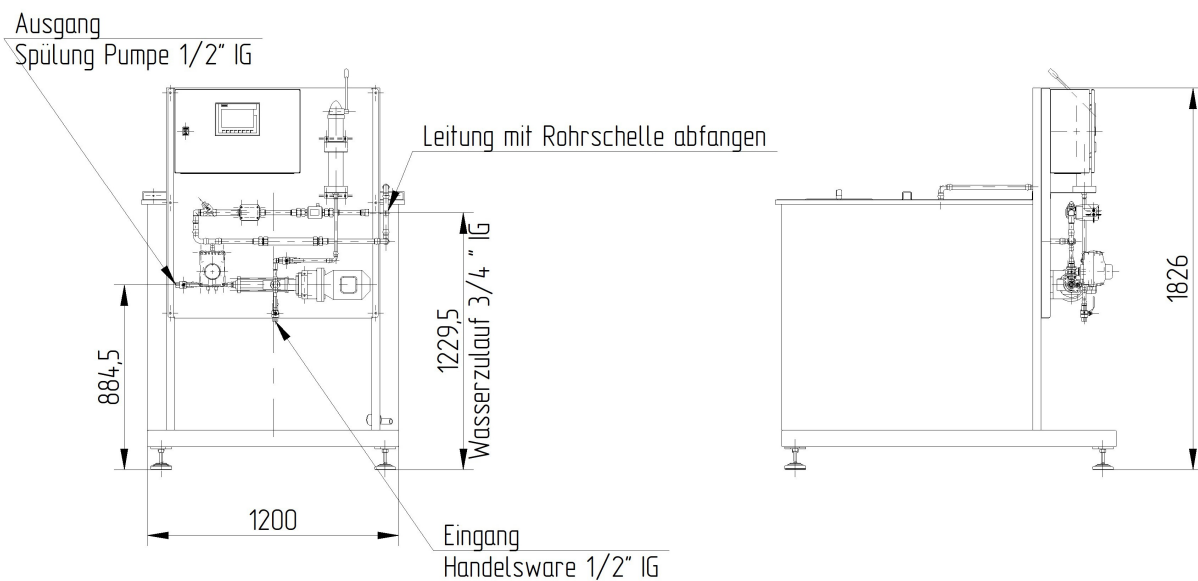
Electrical components

Siemens PLC S7
 Siemens Touchpanel 7“
 Siemens control cabinet components
 Toshiba Frequency converter or similar
 Bürkert regulation valve
 Netzsch pump, design see order-code
 END-Armaturen electrical ball valve
 Endress & Hauser flow meter Picomag

Mechanical Connection

Design see Order-code

Technical drawing



The drawing shows an example system. Depending on the version, the dimensions may vary.

Order-code WBD 3000-...

Material pipe

-1 Stainless steel 1.4301

Diameter pipe and water connection

-A 1/2" Zoll
-B 3/4" Zoll

Design installation

-ME Version with machine base frame to accommodate the system and stainless steel tank

Design Dosing pump

-1 Flow rate 0,2...2 l/h, only 1/2" pipe
-2 Flow rate 0,5...5 l/h, only 1/2" pipe
-3 Flow rate 2...20 l/h, only 3/4" pipe
-4 Flow rate 3...30 l/h, only 3/4" pipe

Polymermonitoring

-0 without monitoring for polymer
-A with flow sensor to monitoring the polymer

Receiving tank

-E1000 Stainless steel tank with sloping floor for optimal emptying
1000 Litre Nettovolume, 1200 Litre Bruttovolume, incl. continius level measurement
incl. overfill protection vibrating fork

Agitator

-0 without agitator
-RW1 with agitator 0,75KW, with baffle in the stainless steel tank

Options (Several possible)

-000 Design standard without more options

Important Info:

Of course, other configurations are also possible, such as larger or smaller systems, decentralised installation, stand mounting on a rack, etc.

Talk to us and together we will find the ideal system for you.