



# Process Water Treatment

## Sedimentor



Process water treatment  
Sedimentor 2.4

- ✓ Improved grinding quality
- ✓ Longer service life of tools
- ✓ Almost clear process water
- ✓ Environmentally friendly
- ✓ Cost reduction of subsequent processes
- ✓ Significantly reduced cleaning requirements

# Bohle Sedimentors

## Overview of Systems and Functions

### Sedimentor 2.4 / Sedimentor 1.0



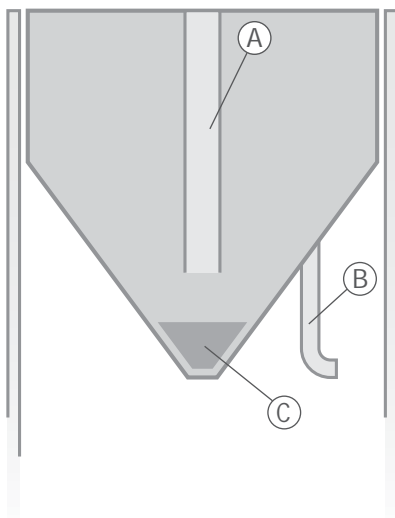
Fully automatic process water treatment for use with sedimentation granules

- Sedimentor 2.4, fully automatic Sediflock sedimentation granules, 2.4 m<sup>3</sup>
- Sedimentor 1.0, fully automatic Sediflock sedimentation granules, 1.2 m<sup>3</sup>
- Special models on request

#### Optional equipment

- Pump for wastewater
- Collecting systems for waste water
- Connection kit for customer assembly
- Sediflock optimised sedimentation granules

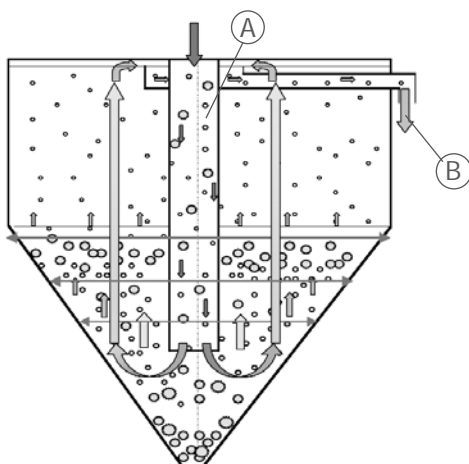
## 01 | Two Steps for a Clean Solution



- 1.** An optimal tank design with special features causes coarse glass particles to be continuously separated from the coolant during circulation (effective sedimentation).
- 2.** Then fine particles are separated out in batch processes. Aided by optimised sedimentation granules, the system binds also finest glass particles in an automated cycle and produces almost clear process water.

- (A) Waste water inlet
- (B) Clear water overflow
- (C) Sludge

## 02 | Effective Sedimentation in Detail



- The wastewater is fed down through the central pipe.
- The design of the overflow at the top of the tank forces the water flow upwards.
- Due to the size of the diameter, the speed of the upward flow slows down continuously.
- As particles have a higher density than water, the movement continues in the sedimentation area.
- Thus up to 70% of the glass particles are sedimented.

- (A) Waste water inlet
- (B) Clear water

## Sedimentor 0.3

Fully automatic process water treatment for use with sedimentation granules

- Sedimentor 0.3, fully automatic, Sediflock sedimentation granules, 0.3 m<sup>3</sup>
- Special models on request

### Optional equipment

- Pump for waste water
- Collecting systems for waste water
- Connection kit for customer assembly
- Sediflock optimised sedimentation granules

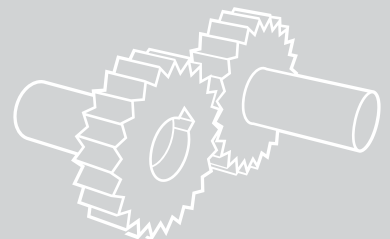


## 03 | Automatic Flocculation Process

- A short blast of air through the valve releases the grinding sludge from the inner walls of the water tank.
- With rapid rotations the propeller mixes the grinding sludge and the water (1 minute).
- While the propeller rotates more slowly, sedimentation granules are added to the water and mixed (6 minutes).
- The propeller stops. While the water remains stationary, the sedimentation granules bind larger and smaller glass particles and form larger or smaller flakes. The flakes settle to the bottom of the tank (10 minutes).
- The valve opens and the water pressure forces the flakes into the filter bag.
- The entire flocculation process takes about 30 minutes.



## Why use a Sedimentor?



- Less cleaning effort required for machine and water tank
- Reduced fresh water costs
- Reduced waste water costs
- Environmental protection
- Improved quality of grinding and polishing
- Longer service life of tools
- Cost reduction of subsequent processes (e. g. washing)
- Compact system for one or more machines
- Low maintenance costs
- Automatic operation
- Also compatible with coolants
- Low operating expenses (costs for sedimentation granules, energy)

# Technical Data

Fully automatic process water treatment for use with sedimentation granules

## Sedimentor 2.4

## Sedimentor 1.0

	Sedimentor 2.4	Sedimentor 1.0
Flow rate	up to approx. 280 litres/minute	140 litres/minute
Tank capacity	2.4 m <sup>3</sup>	1.2 m <sup>3</sup>
Tank material	polyethylene (UV-stabilised)	
Sediflock sedimentation granules	Sediflock powder (per manufacturer's specifications)	
Feed pump (optional)	Waste water pump as desired	
Filter bag approx.	300 litres	
Air pressure	6 bar	
Electrical connection (depending on pumps)	2 kW, 400V/50Hz - 3NPE	
Controls	Siemens	
Art.-No.	BO SEDI24	BO 85.25

## Optional equipment

Art.-No. BO 85.810 Waste water pump 100, max. capacity 96 l/min, 400 V, 50 HZ, 0,18 kW  
Art.-No. BO 85.820 Waste water pump 200, max. capacity 210 l/min, 400 V, 50 HZ, 0,55 kW

Art.-No. BO 500 28 310 Sediflock 10 kg  
Art.-No. BO 500 28 400 Filter bag 70 l  
Art.-No. BO 500 28 401 Filter bag 300 l

Fully automatic process water treatment for use with sedimentation granules

## Sedimentor 0.3

	Sedimentor 0.3
Flow rate up to approx.	50 litres/minute
Tank capacity	0,3 m <sup>3</sup>
Tank material	polyethylene (UV-stabilised)
Sediflock sedimentation granules	powder (per manufacturer's specifications)
Feed pump (optional)	Waste water pump as desired
Filter bag approx.	70 kg
Air pressure	6 bar
Electrical connection (depending on pumps)	2 kW, 400V/50Hz - 3NPE
Dosing of sedimentation granules	automatic
Art.-No.	BO 85.30

## Optional equipment

Art.-No. BO 85.805 Waste water pump 50, max. capacity 49 l/min, 400 V, 50 HZ, 0,12 kW

Art.-No. BO 500 28 310 Sediflock 10 kg  
Art.-No. BO 500 28 400 Filter bag 70 l

Subject to change for the purpose of technical development!