Ptech

ENERGY - WATER - SEWAGE TREATMENT TECHNOLOGY

Datasheet



SBR

Sequential Batch Reactor Technology

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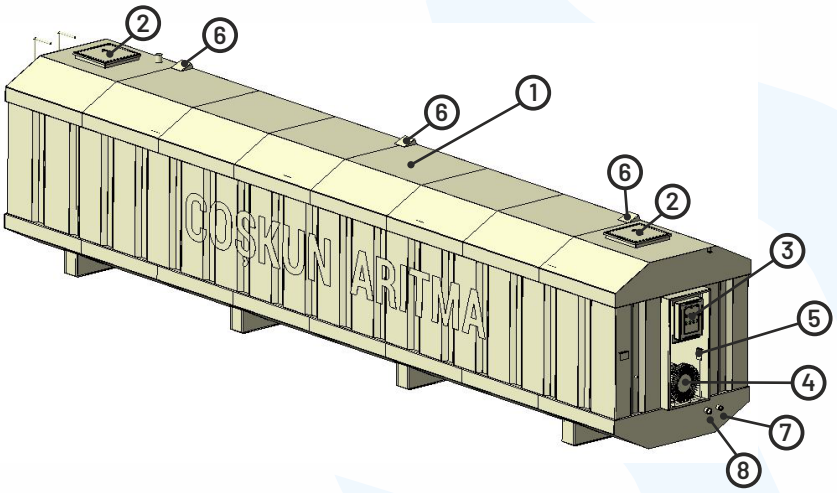
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Description

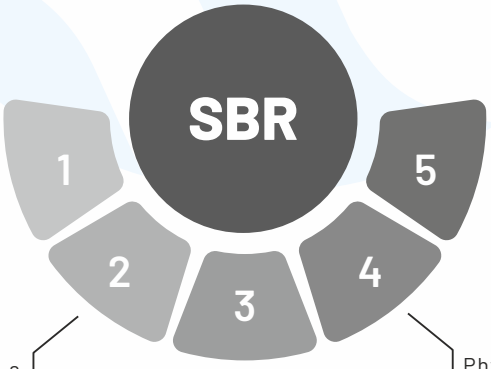
Package treatment units under the manufacturing of Ptech GmbH can be designed in circular, prismatic, or reinforced concrete forms according to demand.

The quality of the effluent from BioCAS® Package Treatment is standardized to comply with discharge limits based on relevant environmental regulations. Additionally, if desired, the characteristics of the BioCAS® Package Treatment Units can be improved to elevate the effluent values to higher quality levels. With BioCAS® Package Wastewater Treatment Units, the aim is to achieve high-quality water with low energy consumption. By design, BioCAS® Package Wastewater Treatment Units operate with the support of PLC according the water density.

Advanced treatment equipment such as sand filters, carbon filters, and UV units can be added to the facility to enhance the quality of the effluent at the outlet of the BioCAS® Package Treatment.



1. BioCAS® Package Treatment Unit
2. Manhole Cover
3. Control Pannel
4. Blower
5. Chlorine Dosing Pump
6. Air Outlet
7. Wastewater Outlet
8. Overflow



Wastewater is transferred to wastewater tank with the help of the pump in the equalization chamber.

Oxygen is provided by means of a blower to wastewater in BioCAS® Package Treatment.

The oxygen-saturated water is kept on hold.

Physically sedimented water inside BioCAS® package tank is discharged with the help of submersible pump.

The process ends after chlorination, at which time the effluent is discharged. The cycle begins again.

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Why Package Treatment?

- *Alternatives for Full or Semi-Automatic Operation*
- *Improvable Automation, Easy Installation*
- *Enlargable Capacity*
- *Ability to operate Full and Half Capacity*
- *High Treatment Efficiency*
- *Odor-free And Noise-free Operation*

Advantages

- *Minimum User Intervention*
- *Easily Found Spare Parts*
- *24/7 Technical Service*
- *%98 Treatment Efficiency*
- *Easy Installation*
- *Minimum Space Requirement*
- *Options For Production According To The Climactic Conditions*

Preferred Areas for Package Treatment

- *Buildings and Mass Houses*
- *Holiday Resorts*
- *Touristic Facilities*
- *Factories and Industrial Areas*
- *Summer Houses and Villas*
- *Social Facilities*
- *Schools*
- *Hospitals*
- *Military Zones*
- *Townships and Municipalities*
- *Construction Sites*

Technical Specifications

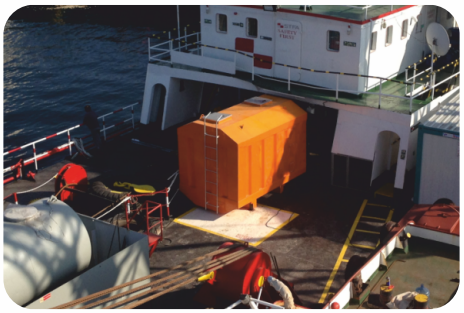
Brand	Model	Capacity	Equalization Chamber	Required Area For Installation	Package Treatment Total Weight (Full of Water)
BioCAS®	P25	5 m^3 / day	5 m^3	3.2 m^2	9.000 kg
BioCAS®	P50	10 m^3 / day	7 m^3	4 m^2	13000 kg
BioCAS®	P100	20 m^3 / day	10 m^3	6 m^2	17000 kg
BioCAS®	P150	30 m^3 / day	16 m^3	8 m^2	19200 kg
BioCAS®	P200	40 m^3 / day	20 m^3	10 m^2	14300 kg
BioCAS®	P250	50 m^3 / day	25 m^3	14 m^2	27080 kg
BioCAS®	P300	60 m^3 / day	28 m^3	16 m^2	35100 kg
BioCAS®	P400	80 m^3 / day	40 m^3	18 m^2	44000 kg
BioCAS®	P500	100 m^3 / day	55 m^3	23 m^2	52200 kg
BioCAS®	P600	120 m^3 / day	60 m^3	26 m^2	58030 kg
BioCAS®	P700	140 m^3 / day	68 m^3	32 m^2	69000 kg
BioCAS®	P800	160 m^3 / day	80 m^3	36 m^2	74000 kg
BioCAS®	P900	180 m^3 / day	90 m^3	38 m^2	80000 kg
BioCAS®	P1000	200 m^3 / day	104 m^3	40 m^2	90240 kg

- *Reference daily water consumption per capita is 200 liters.*
- *Sample flowrate calculation of a facility for 300 people.: 300x200=60 ton/day.*
- *BioCAS P300 is suitable for this capacity.*
- *Package treatment plants can be designed to cover 15.000 capita/day.*

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