RWO GmbH

RWO – WWT BIOPUR

BIOLOGICAL SEWAGE TREATMENT PLANT

IMO RESOLUTION APPROVED MEPC. 2. (VI)

IMO Res. MEPC. 2(VI) RUSSIAN REGISTER APPROVED

Sewage Treatment Plant for ships and offshore application

- *With submerged fixed-film reactor for high process stability and excellent effluent results anytime.*
- *Approved and certified according to IMO-Resolution MEPC. 2 (VI) by the German SBG and EC-conformity in accordance with MED European Marine Equipment Directive.*
- *Approved in accordance with HELCOM regulations for the Baltic Sea.*
- *Most compact design, small dimensions.*
- *Delivery as plug and play unit, ready for operation.*
- *Fully automatic operation, easy to maintain, low operation costs.*
- *Suitable to treat black and grey water or black water only.*
- *Suitable for gravity and vacuum sewage drainage.*
- *Vacuum systems and grease traps available.*

RWO WATER TECHNOLOGY

BG-PRÜFZERT QM ISO 9001 zertifiziert SEE-BG

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A member of the Sterling Fluid Systems Group

EC-conformity acc. MED certified

Description

The RWO WWT BIOPUR waste-water treatment system works with an aerobic biological cleaning stage.

The waste-water is fed into the aeration tank of the waste-water treatment system. The biodegradable organic matters in the waste-water are converted by microorganisms (biomass) in carbon dioxide and water. Air, required for this process, is generated by a blower.

The aeration tank is equipped with fixed biomass growth surfaces, a fixed-film reactor, for the stabilisation and optimisation of this process. The effluent values of less than 3 mg/l BOD5 achieved within the scope of the type testing highlight the exceptional efficiency of the waste-water treatment system WWT BIOPUR.

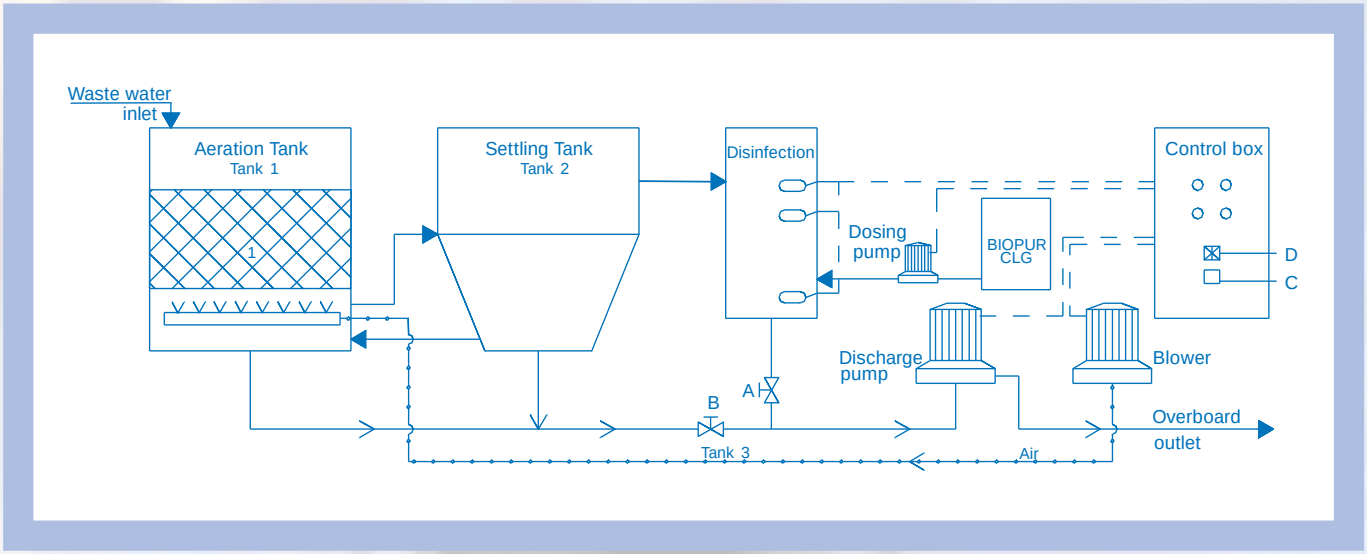
The treated waste-water flows from the aeration tank into the settling tank where sludge is separated from the treated waste-water by sedimentation and returns back into the aeration tank.

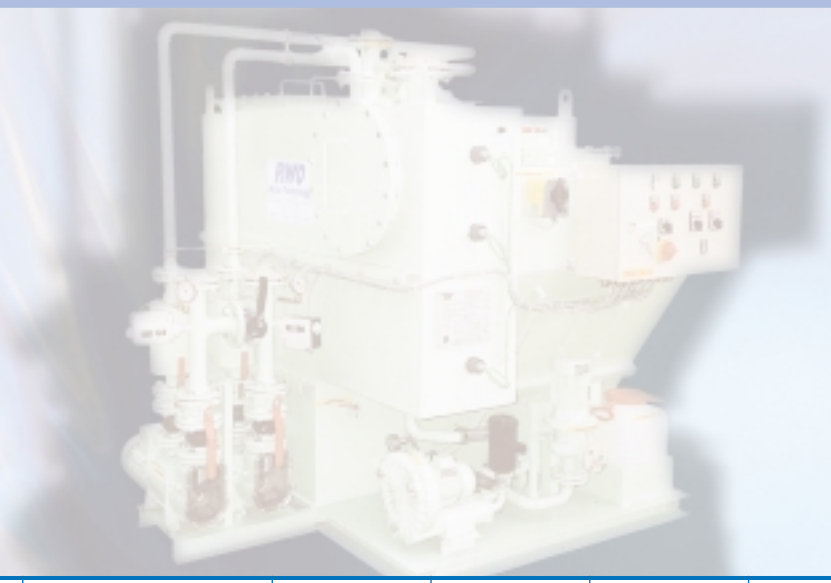
The treated waste-water flows into the disinfection tank where chlorine based disinfection chemical, BIOPUR CLG, is added.

The clean and hygienically safe water is pumped overboard with the discharge pump controlled by level sensors in the disinfection tank.

Treated sludge, reduced in volume, is pumped overboard or ashore. After this process the waste-water treatment system WWT BIOPUR is immediately ready for operation again because of the adapted biomass on the fixed film reactor.

Technical Data





Type WWT BIOPUR	Number of Persons	Hydraulic Load [m³/d]	Hydraulic Load [gal/d]	Length [mm]	Width [mm]	Height [mm]	Dry Weight [kg]	Wet Weight [kg]
WWT 1	10	1,76	0,46	1.495	835	1.290	850	1.850
WWT 2	14	2,59	0,68	1.620	1.285	1.290	900	2.700
WWT 3	26	4,63	1,22	1.760	1.330	1.590	950	3.750
WWT 4	36	6,48	1,71	1.960	1.530	1.590	1.200	4.550
WWT 5	55	9,81	2,59	1.985	1.835	1.690	1.300	5.800
WWT 6	70	12,58	3,32	2.200	1.835	1.850	1.500	7.000
WWT 7	93	16,65	4,40	2.800	1.835	1.850	2.200	9.100
WWT 8	113	20,35	5,38	3.500	1.835	1.850	2.600	11.000
up to **WWT 13**	1.025	185,00	48,90	- On Request -				

- The number of persons is different if a vacuum system is used.
- Special design and larger capacities available.
- The actual capacities depend on organic load and hydraulic load.

– Data are subject to change without further notice –

Products and Services

waste water treatment

- oily water separators
- emulsion splitting
- oil alarm monitors
- sewage treatment
- grey water treatment
- grease traps
- vacuum systems

fresh water treatment

- sea water desalinators RO - reverse osmosis
- UV-sterilizers
- mineralizers & softeners
- chlorination & dechlorination
- filters
- ozon generators & chlor electrolysis generators
- measuring devices for pH, Cl, hardness, flow, conductivity
- hydrophor systems
- ion-exchangers

swimmingpool equipment

boiler feed & technical watertreatment

river water treatment

water treatment chemicals

STERLING Berkefeld

STERLING RWO

STERLING SERVICE

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