

BioPac

Greywater Recycled System

SANITAIRE

a xylem brand

Design parameters

Treated effluent comply to the water quality standard for urban miscellaneous in accordance with GB/T1892002

	BOD_5 mg/l	COD_{cr} mg/l	NH_4^+-N mg/l	Turbidity NTU	SS mg/l	Chroma	LAS mg/l	Total coliform num/L
Influent (GW)	80	150	10		90			
Influent (BW)	250	400	40		180			
Effluent	10		10	5		30	0.5	3*

* After 30 mins contact time

- Temperature : 12~37 deg C
- PH: 6~9
- BOD_5 : NH_4^+-N:P<100:5:1

GW Series

Model	Flow (m^3/hr)	Power (kW)	Bio Treatment Dimension L_1 (m)	B_1 (m)	H_1 (m)	Equipment Dimension L_2 (m)	B_2 (m)	H_2 (m)	Sand Filter Ø (m)	H_3 (m)
GW25	2.5	5.6	3.1	1.9	2.3	1.85	1.8	1.0	0.6	2.4
GW50	5.0	6.7	4.7	2.0	2.9	2.0	1.8	1.0	0.8	2.8
GW100	10.0	9.0	7.3	2.4	2.9	2.25	1.95	1.0	1.2	3.0
GW150	15.0	13.0	9.8	2.7	3.1	2.5	2.0	1.0	1.4	3.3
GW200	20.0	18.0	11.0	3.2	3.1	3.0	1.8	1.0	1.6	3.5

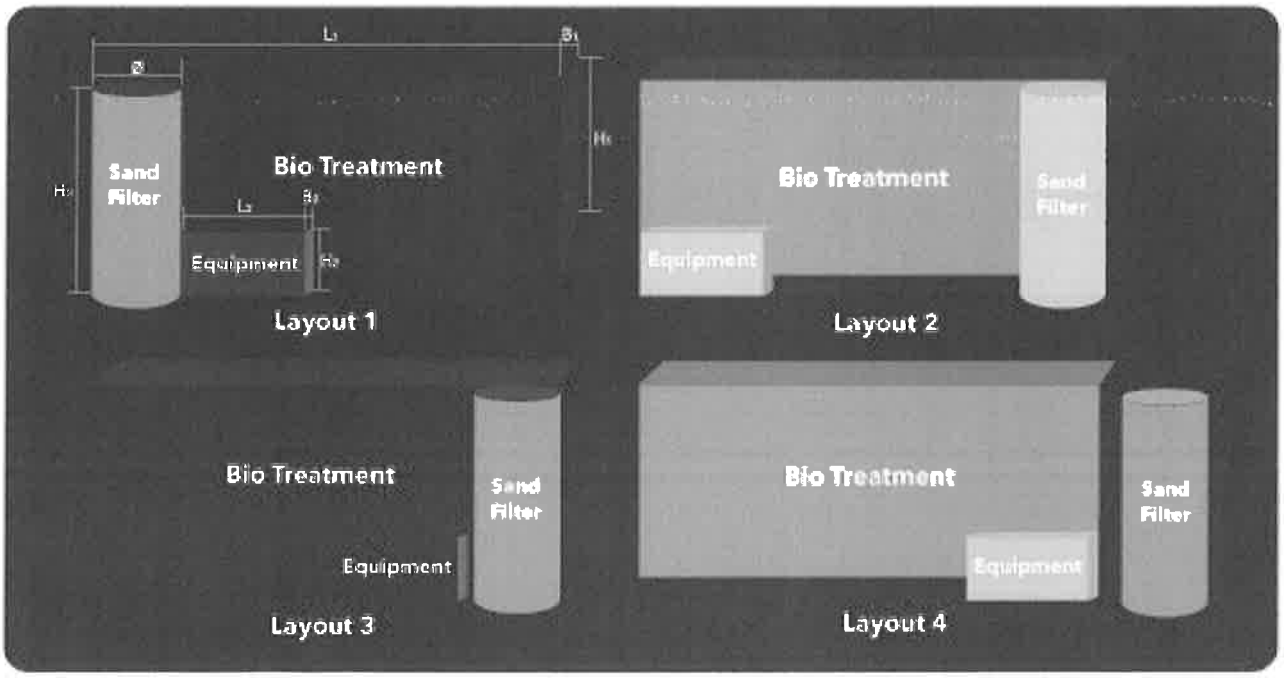
BW Series

Model	Flow (m^3/hr)	Power (kW)	Bio Treatment Dimension L_1 (m)	B_1 (m)	H_1 (m)	Equipment Dimension L_2 (m)	B_2 (m)	H_2 (m)	Sand Filter Ø (m)	H_3 (m)	Activated Carbon Ø (m)	H_3 (m)
BW25	2.5	10.97	5.7	2.0	3.0	2.0	1.8	1.0	0.6	2.4	0.6	2.4
BW50	5.0	14.42	8.2	2.7	3.0	2.5	2.0	1.0	0.8	2.8	0.8	2.8
BW100	10.0	21.28	13.0	3.2	3.0	3.0	2.5	1.0	1.2	3.0	1.2	3.0
BW150*	15.0	27.62	19.8	3.2	3.0	3.0	2.5	1.0	1.4	3.3	1.4	3.3
BW200**	20.0	34.97	25.5	3.2	3.0	3.0	3.0	1.0	1.6	3.5	1.6	3.5

* BW150: Bio treatment tanks. Aeration tank : L11.4 x B3.2 x H3.0, Intermediate Tank: L8.4 x B3.2 x H3.0

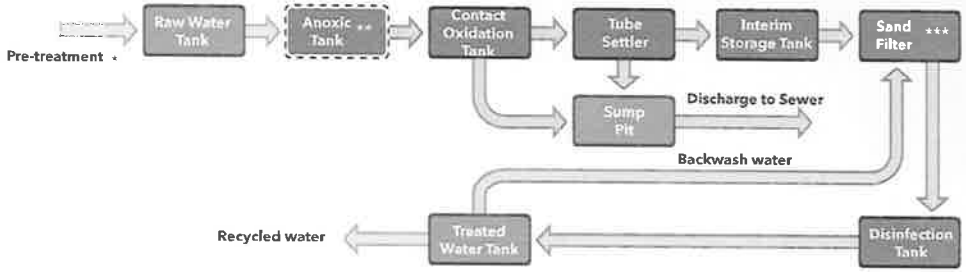
** BW200: Bio treatment tanks. Aeration tank : L15.0 x B3.2 x H3.0, Intermediate Tank: L10.5 x B3.2 x H3.0

Modular Arrangement



BioPac | Greywater Recycling System

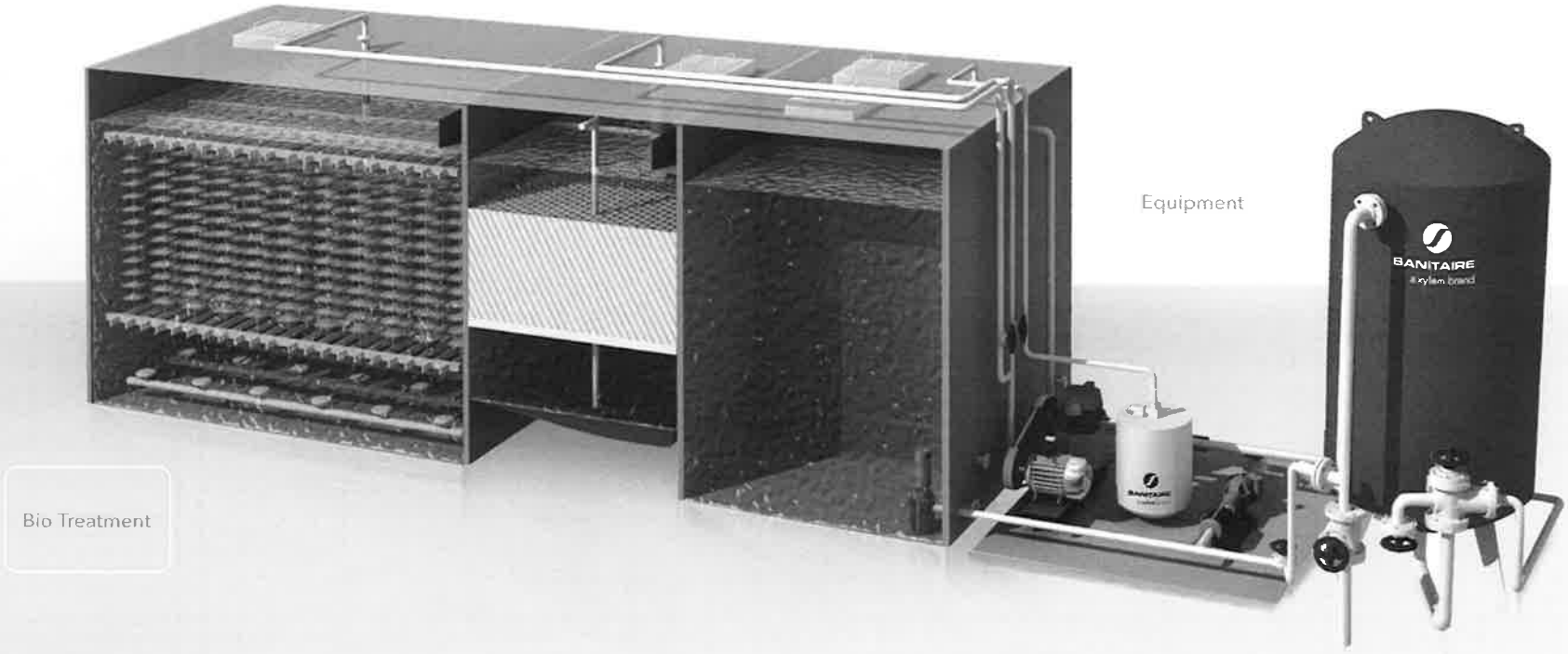
Process Flow Chart



* GW Series includes hair collection, BW includes bar screen

** BW Series includes oxidation tank

*** GW Series includes sand filter, BW Series includes activated carbon filter



Bio Treatment

Equipment

Sand Filter