

TREATMENT TANK BY LOW-LOAD ACTIVATED SLUDGE (EXTENDED AERATION) WITH CONICAL SETTLING TANK, BLOWER, FINE BUBBLE DIFFUSERS AND SLUDGE RETURN SYSTEM

REF: CHC – OXI-REC - DEC

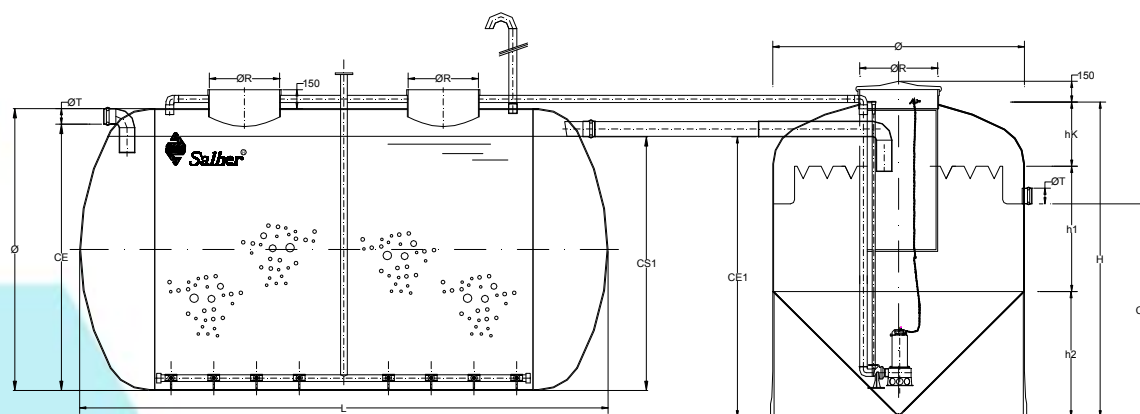
Application:

- Organic matter removal (BOD₅).

Characteristics:

- Salher brand, model CHC-OXI-REC-DEC.
- Manufactured in Glass Fiber Reinforced Polyester (GFRP) with orthophthalic resins.
- Organic matter removal efficiency (BOD₅) = 90 - 95 %.
- Oxygen transfer and homogenization by blower system and fine bubble diffusers grid in EPDM.
- Inverted cone-bottom centre-feed clarifier with Thompson V-notch weir.
- Compact settling tank with activated-sludge recirculation system by submerged pump.
- PVC inlet and outlet pipes.
- Outlet in the manhole to install a ventilation pipe.
- Access through manhole with GFRP cover.



**BIOLOGICAL REACTOR**

PE	CAPACITY [liters]	Ø [mm]	LENGTH [mm]	INLET [mm]	OUTLET [mm]	Ø [mm] PIPES	BLOWER (kW)
50	10.000	1.700	4.740	1.575	--	125	1.10
75	15.000	2.000	5.200	1.875	--	125	1.50
75	15.000	2.250	4.200	2.125	--	125	1.50
100	18.000	2.000	6.120	1.840	--	160	1.50
100	18.000	2.250	5.000	2.090	--	160	1.50
150	25.000	2.500	4.360	2.300	--	200	2.20
200	35.000	2.500	7.620	2.300	--	200	3.00
300	50.000	2.500	10.670	2.300	--	200	3.00
400	68.000	2.500	14.330	2.250	--	250	3.00
500	85.000	3.000	12.610	2.750	--	250	5.50
600	102.000	3.000	15.000	2.750	--	250	5.50
700	120.000	3.000	17.500	2.750	--	250	7.50
700	120.000	3.500	13.200	3.250	--	250	7.50
800	140.000	3.500	14.900	3.185	--	315	Consult us
900	150.000	3.500	16.300	3.185	--	315	Consult us
1.000	170.000	4.000	14.300	3.685	--	315	Consult us

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SETTLING TANK

PE	CAPACITY [liters]	Ø [mm]	HEIGHT [mm]	INLET [mm]	OUTLET [mm]	Ø PIPES [mm]	RECIRCULATION PUMP (kW)
50	1.590	1.400	1.870	--	1.525	125	0.55
75	2.910	1.700	2.300	--	1.825	125	0.55
75	2.910	1.700	2.300	--	2.075	125	0.55
100	4.190	2.000	2.530	--	1.790	160	0.55
100	4.190	2.000	2.530	--	2.040	160	0.55
150	4.190	2.000	2.530	--	2.250	200	0.55
200	7.930	2.500	3.110	--	2.250	200	0.55
300	7.930	2.500	3.110	--	2.200	200	0.55
400	13.420	3.000	3.700	--	2.150	250	0.55
500	13.420	3.000	3.700	--	2.650	250	0.55
600	21.000	3.500	4.265	--	2.650	250	0.55
700	21.000	3.500	4.265	--	2.650	250	0.55
700	21.000	3.500	4.265	--	3.150	250	0.55
800	30.980	4.000	4.840	--	3.085	315	0.55
900	30.980	4.000	4.840	--	3.085	315	0.55
1.000	30.980	4.000	4.840	--	3.585	315	0.55

WASTE WATER TREATMENT PLANT IS EQUIPPED WITH PANEL BOARD.

WWTP COMPLEMENTARY EQUIPMENT: WASTE WATER SCREENS, GREASE INTERCEPTORS, PUMPING STATIONS, DISINFECTION UNITS, EXCESS SLUDGE SETTLING TANKS, ETC.