

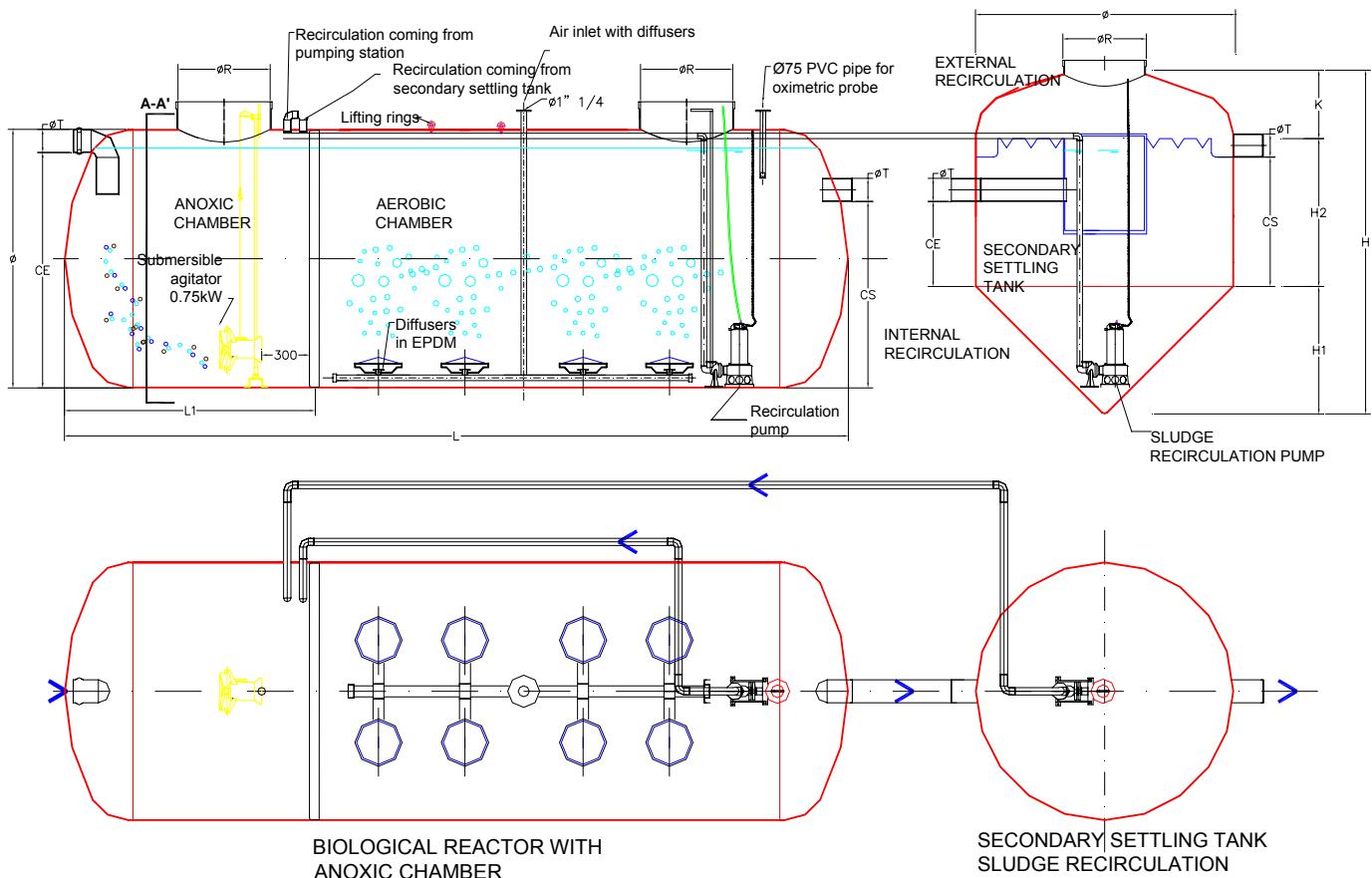
SECONDARY TREATMENT FOR LOW CHARGE ACTIVATED-SLUDGE, WITH NITROGEN REMOVAL BY BIOLOGICAL METHOD (NITRIFICATION-DENITRIFICATION) AND CLARIFICATION PROCESS IN SEPARATE CONICAL SETTLING TANK
MODEL: CHC-OXIREC-DEC-ANOX

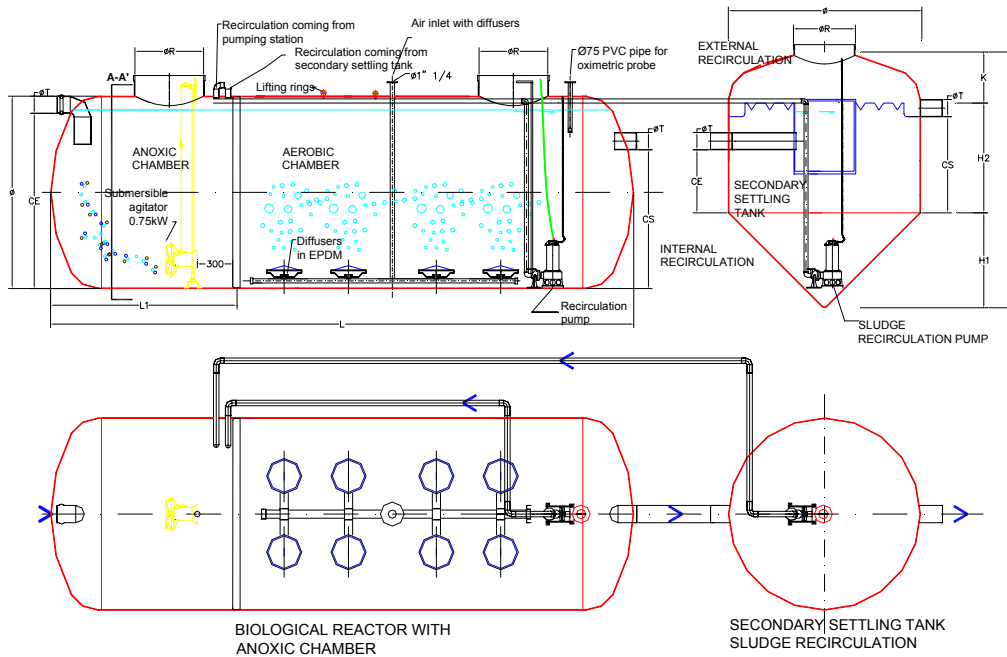
Function:

- Organic matter removal (BOD_5).
- Nitrogen removal (N_t).

Characteristics:

- Manufactured by Salher, Model CHC-OXIREC-DEC-ANOX.
- Reactor made of Fiberglass Reinforced Polyester (FGRP) with orthophthalic resin, provided with an anoxic chamber and aerobic.
- Organic matter removal efficiency (BOD_5) $\geq 90 - 95 \%$.
- Oxygen transfer mixed with liquor homogenization system in aerobic chamber through blower and fine bubbles diffusers in EPDM.
- Agitation system of the anoxic chamber with submersible agitator and discharge connection.
- Separate conical settling tank in PRFV with central supply and Thompson canal.
- Internal and external recirculation system through submersible pump and discharge connection.
- PVC inlet and outlet pipes.
- Access via manhole with upper cover in FGRP.
- Connection pipe to install the air vent.



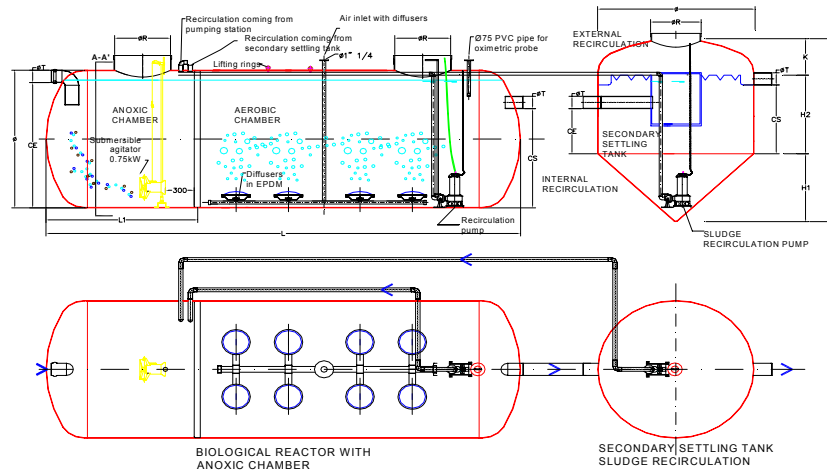


BIOLOGICAL REACTOR

PE	CAPACITY [liters]	Ø [mm]	L [mm]	INLET [mm]	ØT [mm]	Blower (KW)	REC. PUMPS (KW)	AGITATOR (KW)
25	7.000	1.400	4.850	1.275	125	0.55	0.55	0.6
30	8.000	1.400	5.460	1.575	125	0.55	0.55	0.6
40	10.000	1.700	4.750	1.875	125	0.55	0.55	0.6
50	13.000	1.700	6.450	1.875	125	0.75	0.55	0.6
75	21.000	2.000	7.060	1.840	160	1.1	0.55	0.6
75	21.000	2.250	5.750	2.090	160	1.1	0.55	0.6
90	26.000	2.250	7.000	2.050	200	1.1	0.55	0.6
100	26.000	2.250	7.000	2.050	200	1.5	0.55	0.6
100	26.000	2.500	5.800	2.300	200	1.5	0.55	0.6
150	39.000	2.500	8.450	2.300	200	2.2	0.55	0.6
175	43.000	2.500	9.250	2.300	200	2.2	0.55	0.6
200	47.000	2.500	10.050	2.300	200	2.2	0.55	0.6

SETTLING TANK

PE	CAPACITY [liters]	Ø [mm]	HEIGHT [mm]	OUTLET [mm]	Ø PIPE [mm]	RECIRCULATION PUMP [KW]
25	1.130	1.200	1.720	1.225	125	0.55
30	1.130	1.200	1.720	1.525	125	0.55
40	1.590	1.400	1.870	1.825	125	0.55
50	1.590	1.400	1.870	1.825	125	0.55
75	2.910	1.700	2.300	1.790	160	0.55
90	4.190	2.000	2.530	2.000	200	0.55
100	4.190	2.000	2.530	2.000	200	0.55
100	4.190	2.000	2.530	2.250	200	0.55
150	4.190	2.000	2.530	2.250	200	0.55
175	7.930	2.500	3.110	2.250	200	0.55
200	7.930	2.500	3.110	2.250	200	0.55



BIOLOGICAL REACTOR

PE	CAPACITY [liters]	Ø [mm]	L [mm]	INLET [mm]	T Ø [mm]	Blower [KW]	REC. PUMP [KW]	AGITATOR [KW]
225	56.000	2.500	11900	2.300	200	2.2	0.55	0.6
250	60.000	2.500	12.710	2.300	200	3.0	0.55	0.6
300	73.000	3.000	10.900	2.750	250	3.0	0.55	0.6
350	81.000	3.000	12.050	2.750	250	4.0	0.55	0.6
400	95.000	3.500	10.550	3.250	250	5.5	0.55	0.6
500	121.000	3.500	13.250	3.250	250	5.5	0.55	0.6
550	129.000	3.500	14.070	3.250	250	5.5	0.55	0.6
600	147.000	3.500	16.000	3.250	250	5.5	0.55	0.6
700	163.000	4.000	13.750	3.750	250	7.5	0.55	0.6
750	176.000	4.000	14.760	3.750	250	7.5	0.55	0.6
800	190.000	4.000	15.900	3.750	250	7.5	0.55	0.6
900	210.000	4.000	17.460	3.750	250	9.0	0.55	0.6
1.000	230.000	4.000	19.100	3.750	250	11.0	0.55	0.6

SETTLING TANK

PE	CAPACITY [liters]	Ø [mm]	HEIGHT [mm]	OUTLET [mm]	PIPE Ø [mm]	REC. PUMP [KW]
225	7.930	2.500	3.110	2.250	200	0.55
250	7.930	2.500	3.110	2.250	200	0.55
300	7.930	2.500	3.110	2.700	200	0.55
350	13.420	3.000	3.700	2.650	250	0.55
400	13.420	3.000	3.700	3.150	250	0.55
500	13.420	3.000	3.700	3.150	250	0.55
550	21.000	3.500	4.265	3.150	250	0.55
600	21.000	3.500	4.265	3.150	250	0.55
700	21.000	3.500	4.265	3.650	250	0.55
750	30.980	4.000	4.840	3.650	250	0.55
800	30.980	4.000	4.840	3.650	250	0.55
900	30.980	4.000	4.840	3.650	250	0.55
1.000	30.980	4.000	4.840	3.650	250	0.55