

**TREATMENT PLANT WITH BIOLOGICAL FILTER OR RECIRCULATED BACTERIA FILTER****MODEL: IMH-LBR-TC****Function:**

- Organic matter removal (BOD5).
- Suspended solids removal (SS).

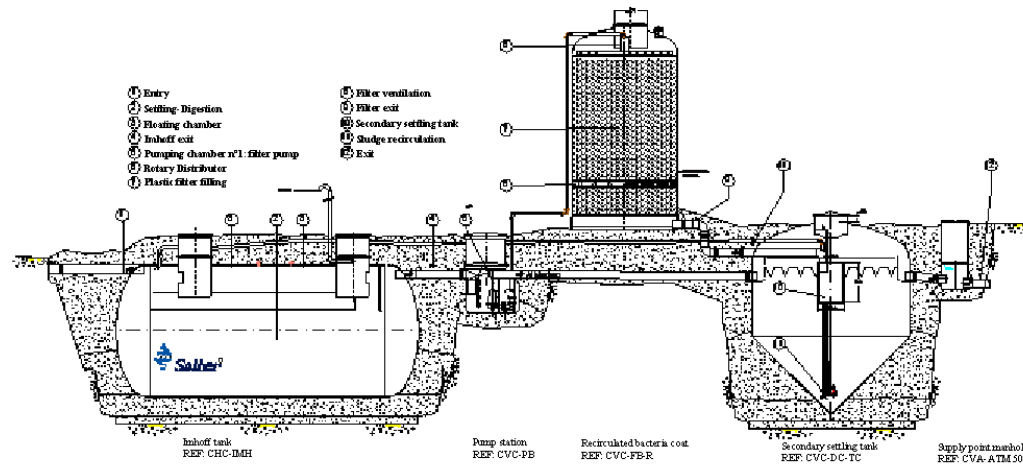
**Characteristics**

- Manufactured by Salher, Model IMH-LBR-TC.
- Made of Fiberglass Reinforced Polyester (FGRP) with orthophthalic resin.
- Organic matter removal efficiency (BOD5): 85-90%.
- Suspended solids (SS) removal efficiency: 90%.
- Primary treatment with settling-digestion process (Imhoff tank).
- Secondary treatment with recirculated biological filter supplied via roving distributor (rotary arm), with evacuation system at the bottom and natural ventilation.
- Filling up with synthetic materials and high cavity index (95%) and a large specific surface (240m<sup>2</sup>/m<sup>3</sup>).
- Pumping station for biological filter supply containing 1 pump with adjustable level system. Optional: 2 automatic and alternative pumps.
- Secondary conical settling tank with central supply and Thompson canal.
- Sludge removal and recirculation in Imhoff tank digestion chamber, constituted of submersible pump with removal system via automatic connection.
- Recirculation system for part or the whole treated water to increase efficiency.
- PVC inlet and outlet pipes.
- Access via manhole with cover of Fiberglass Reinforced Polyester (FGRP).
- Connection pipe located in the manhole to install the air vent (or possibility to install it in any other place).

EQUIPMENT DELIVERED WITH CONTROL PANEL.

PUMPS ARE REMOVABLE FROM THE EXTERIOR WITHOUT HAVING TO EMPTY THE TANK.

IN OPTION: SCREEN, PUMPING STATIONS, DISINFECTION SYSTEM, ACTIVATED-SLUDGE RECIRCULATION SETTLING TANKS, ETC.



Nº HAB	FLOW [m³/d]	IMHOFF TANK			SLBR			SETTLING TANK			MANHOLE		
		VOL. [m³]	LONG. [m]	Ø [m]	VOL. [m³]	Ø [m]	H [m]	VOL. [m³]	Ø [m]	H [m]	VOL. [m³]	Ø [m]	H [m]
50	7.5	7.5	2.79	2.0	3.0	1.2	2.6	2.0	1.2	2.17	1.0	1.2	1.0
100	15.0	13.5	4.70	2.0	6.0	1.7	2.6	4.0	1.7	2.33	1.0	1.2	1.0
150	22.5	18.75	4.32	2.5	9.0	2.0	2.75	6.0	1.7	3.21	1.5	1.2	1.45
200	30.0	26.25	5.85	2.5	11.0	2.0	3.4	8.0	2.0	3.21	1.5	1.2	1.45
250	37.5	33.75	7.38	2.5	13.5	2.25	3.4	10.0	2.25	3.27	2	1.4	1.44
300	45.0	37.5	8.14	2.5	16.5	2.5	3.3	12.0	2.5	3.28	2.5	1.4	1.76
350	52.5	45.0	9.67	2.5	18.5	2.5	3.7	14.0	2.5	3.69	2.5	1.4	1.76
400	60.0	48.75	10.44	2.5	22.0	3.0	3.1	16.0	3.0	3.26	3.0	1.7	1.49
450	67.5	56.25	11.96	2.5	24.0	3.0	3.4	18.0	3.0	3.55	3.0	1.7	1.49
500	75.0	63.75	9.60	3.0	26.0	3.0	3.7	20.0	3.0	3.83	3.5	1.7	1.70
600	90.0	75.0	11.30	3.0	33.0	3.5	3.35	23.0	3.5	3.56	4.0	1.7	1.93
700	105.0	90.0	13.30	3.0	36.5	3.5	3.8	27.0	3.5	3.97	5.0	2.0	1.80
800	120.0	97.5	10.80	3.5	43.0	4.0	3.4	30.0	3.5	4.28	6.0	2.0	2.11
900	135.0	112.5	11.30	3.5	47.0	4.0	3.7	35.0	4.0	4.12	6.0	2.0	2.11
1000	150.0	120	13.16	3.5	51.0	4.0	4.1	40.0	4.0	4.52	7.0	2.0	2.41