

MUNICIPAL	BioCAST DESIGN						
Wastewater flow rate (m³/day)	20	50	100	500	1000	2000	5000
Height of reactors (m)	4.3	5.8	7.2	11.6	15	18.3	25
Surface area of two reactors (m²)	2.7	6.1	11.6	17	37.2	48.4	80
Volume of reactor I (m³)	7.1	21	48.3	110	353	594	1342
External diameter of reactor I (m)	1.5	2.3	3.1	3.6	5.7	6.7	8.7
Weight of liquid in reactor I (kg)	7100	21000	48300	110000	353000	594000	1342000
Volume of reactor II (m³)	3.3	11	27.2	74	163	236	478
External diameter of reactor II (m)	1	1.6	2.3	2.9	3.8	4.1	5.1
Weight of liquid in reactor II (kg)	3300	11000	27200	74000	163000	236000	478000
Overall volume of two reactors, including the clarification zones (m³)	10.4	32	75.5	184	516	830	1820
Dry sludge production (kg /day)	0.7	1.8	3.6	18	36	72	180
Actual oxygen requirement (Kg /day)	7	17	33	164	328	657	1642