

TANK VOL DATA PACKAGE PLANT (1)

Plant Drawing Number	Plant Model Number	Design Flow Gal/ Day	BOD # Note 1&2	CFM Req'd Total	Aeration Vol. Gal. Note 3	Clarifier Vol. Gal Note 4	SHT Vol. Gal Note 5	SHT Air Note 6	CL2 Vol. Gal Note 7	Sludge Airlifts CFM	Scum Airlifts CFM	Plant Blower cfm / HP / Model Note 2	Equal. Vol. Gal. Note 8	Equal. Blower cfm / HP / Model Note 9
P01-ESC	PP-0.5-ESC	500	1	9	588	233	294	2	45	3	3	20 / 1 / 22	476	N / A
P01-ESC	PP-1.0-ESC	1,000	2	11	1029	233	294	2	45	3	3	20 / 1 / 22	476	N / A
P01-ESC	PP-1.5-ESC	1,500	3	12	1547	276	368	2	45	3	3	20 / 1 / 22	720	N / A
P02-ESC	PP-2-ESC	2,000	4	15	2044	344	497	3	68	3	3	20 / 1 / 22	720	N / A
P02-ESC	PP-2.5-ESC	2,500	5	16	2542	487	608	3	68	3	3	20 / 1 / 22	852	N / A
P03-ESC	PP-3-ESC	3,000	6	21	3036	950	934	6	90	3	3	22 / 1 / 22	1655	20 / 1.0 / 22
P03-ESC	PP-04-ESC	4,000	8	23	4086	950	934	6	120	3	3	25 / 1 / 22	1655	20 / 1.0 / 22
P03-ESC	PP-05-ESC	5,000	10	26	5020	950	1168	6	150	3	3	28 / 1.5 / 22	1655	20 / 1.0 / 22
P04-ESC	PP-06-ESC	6,000	12	29	6125	1535	1400	6	187	3	3	33 / 1.5 / 22	2138	20 / 1.0 / 22
P04-ESC	PP-07-ESC	7,000	14	38	7000	1535	1575	12	187	3	3	40 / 1.5 / 24	2673	20 / 1.0 / 22
P04-ESC	PP-08-ESC	8,000	16	41	8050	1535	1925	12	224	3	3	43 / 2.0 / 24	2673	20 / 1.0 / 22
P04-ESC	PP-09-ESC	9,000	18	44	9100	1535	2100	12	262	3	3	47 / 2.0 / 24	3145	20 / 1.0 / 22
P05-ESC	PP-10-ESC	10,000	20	46	10150	1685	2275	12	299	3	3	47 / 2.0 / 24	3300	20 / 1.0 / 22
P05-ESC	PP-11-ESC	11,000	22	49	11025	1835	2625	12	299	3	3	50 / 2.0 / 24	3750	20 / 1.0 / 22
P05-ESC	PP-12-ESC	12,000	24	58	12075	2135	2800	18	337	3	3	60 / 2.0 / 24	4050	20 / 1.0 / 22
P05-ESC	PP-13-ESC	13,000	26	61	13125	2285	2975	18	374	3	3	62 / 2.0 / 33	4350	20 / 1.0 / 22
P05-ESC	PP-14-ESC	14,000	28	64	14000	2435	3150	18	374	3	3	66 / 2.0 / 33	4800	20 / 1.0 / 22
P05-ESC	PP-15-ESC	15,000	30	67	15050	2680	3500	18	411	3	3	68 / 2.0 / 33	4950	20 / 1.0 / 22
P05-ESC	PP-16-ESC	16,000	32	70	16100	2680	3675	18	449	3	3	70 / 3.0 / 33	5400	20 / 1.0 / 22
P06-ESC	PP-17-ESC	17,000	34	75	17010	3395	3990	18	449	6	3	76 / 3.0 / 33	5720	20 / 1.0 / 22
P06-ESC	PP-18-ESC	18,000	36	78	18060	3395	4200	18	493	6	3	78 / 3.0 / 33	6089	20 / 1.0 / 22
P06-ESC	PP-19-ESC	19,000	38	81	19110	3395	4410	18	539	6	3	82 / 3.0 / 33	6458	20 / 1.0 / 22
P06-ESC	PP-20-ESC	20,000	40	84	20160	3395	4620	18	539	6	3	84 / 3.0 / 33	6827	20 / 1.0 / 22
P07-ESC	PP-21-ESC	21,000	42	92	21000	3925	4830	20	561	6	6	92 / 3.0 / 33	7011	20 / 1.0 / 22
P07-ESC	PP-22-ESC	22,000	44	97	22050	3925	5040	22	617	6	6	98 / 3.0 / 33	7380	20 / 1.0 / 22
P07-ESC	PP-23-ESC	23,000	46	99	23100	3925	5250	22	617	6	6	100 / 5.0 / 33	7749	20 / 1.0 / 22
P07-ESC	PP-24-ESC	24,000	48	104	24150	4095	5460	24	674	6	6	104 / 5.0 / 33	7934	20 / 1.0 / 22
P07-ESC	PP-25-ESC	25,000	50	107	25200	4765	5670	24	674	6	6	110 / 5.0 / 33	8303	20 / 1.0 / 22
P07-ESC	PP-26-ESC	26,000	52	110	26040	4765	5880	24	729	6	6	110 / 5.0 / 33	8672	20 / 1.0 / 22
P07-ESC	PP-27-ESC	27,000	54	117	27090	4765	6090	28	729	6	6	118 / 5.0 / 33	9041	20 / 1.0 / 22
P07-ESC	PP-28-ESC	28,000	56	120	28140	4765	6300	28	785	6	6	120 / 5.0 / 33	9410	20 / 1.0 / 22
P07-ESC	PP-29-ESC	29,000	58	123	29190	5550	6720	28	785	6	6	124 / 5.0 / 33	9779	20 / 1.0 / 22
P07-ESC	PP-30-ESC	30,000	60	125	30030	5550	6930	28	841	6	6	126 / 5.0 / 33	9963	20 / 1.0 / 22
P07-ESC	PP-31-ESC	31,000	62	130	31080	5550	7140	30	841	6	6	130 / 5.0 / 33	10332	20 / 1.0 / 22
P07-ESC	PP-32-ESC	32,000	64	133	32130	5550	7350	30	898	6	6	136 / 5.0 / 33	10701	20 / 1.0 / 22
P07-ESC	PP-33-ESC	33,000	66	136	33180	5500	7560	30	898	6	6	136 / 5.0 / 33	10886	20 / 1.0 / 22
P07-ESC	PP-34-ESC	34,000	68	141	34650	5550	7770	32	898	6	6	142 / 5.0 / 33	11255	20 / 1.0 / 22

TANK VOL DATA PACKAGE PLANT (2)

Plant Drawing Number	Plant Model Number	Design Flow Gal/ Day	BOD # Note 1&2	CFM Req'd Total	Aeration Vol. Gal. Note 3	Clarifier Vol. Gal Note 4	SHT Vol. Gal Note 5	SHT Air Note 6	CL2 Vol. Gal Note 7	Sludge Airlifts CFM	Scum Airlifts CFM	Plant Blower cfm / HP / Model Note 2	Equal. Vol. Gal. Note 8	Equal. Blower cfm / HP / Model Note 9
P08-ESC	PP-35-ESC	35,000	70	144	35070	6150	7980	32	942	6	6	144 / 5.0 / 33	11624	20 / 1 / 22
P08-ESC	PP-36-ESC	36,000	72	149	36120	6150	8190	34	1010	6	6	150 / 5.0 / 33	11993	20 / 1 / 22
P08-ESC	PP-37-ESC	37,000	74	151	37170	6520	8400	34	1010	6	6	152 / 5.0 / 33	12362	20 / 1 / 22
P08-ESC	PP-38-ESC	38,000	76	156	38010	6520	8400	36	1010	6	6	156 / 5.0 / 33	12731	20 / 1 / 22
P08-ESC	PP-39-ESC	39,000	78	159	39060	6520	8820	36	1077	6	6	160 / 5.0 / 36	13100	20 / 1 / 22
P08-ESC	PP-40-ESC	40,000	80	162	40110	6895	9030	36	1077	6	6	162 / 5.0 / 36	13284	20 / 1 / 22
P08-ESC	PP-41-ESC	41,000	82	171	41160	6895	9240	40	1144	8	6	172 / 5.0 / 36	13653	20 / 1 / 22
P08-ESC	PP-42-ESC	42,000	84	174	42000	7270	9450	40	1144	8	6	174 / 5.0 / 36	14022	20 / 1 / 22
P08-ESC	PP-43-ESC	43,000	86	176	43050	7645	9870	40	1144	8	6	176 / 5.0 / 36	14207	20 / 1 / 22
P08-ESC	PP-44-ESC	44,000	88	179	44100	7645	10080	40	1212	8	6	180 / 5.0 / 36	14576	20 / 1 / 22
P08-ESC	PP-45-ESC	45,000	90	186	45150	7645	10290	44	1212	8	6	186 / 5.0 / 36	15314	20 / 1 / 22
P08-ESC	PP-46-ESC	46,000	92	189	46200	8020	10500	44	1279	8	6	190 / 5.0 / 36	15498	20 / 1 / 22
P08-ESC	PP-47-ESC	47,000	94	192	47040	8020	10710	44	1279	8	6	192 / 5.0 / 36	15683	20 / 1 / 22
P08-ESC	PP-48-ESC	48,000	96	195	48090	8020	10920	44	1279	8	6	196 / 5.0 / 36	16052	22 / 1 / 22
P08-ESC	PP-49-ESC	49,000	98	202	49140	8390	11130	48	1346	8	6	202 / 5.0 / 36	16421	22 / 1 / 22
P08-ESC	PP-50-ESC	50,000	100	204	50190	8390	11340	48	1526	8	6	204 / 5.0 / 36	16790	22 / 1 / 22
P09-ESC	PP-55-ESC	55,000	110	223	55275	9175	12562	50	2289	10	6	224 / 7.5 / 36	18480	25 / 1 / 22
P09-ESC	PP-60-ESC	60,000	120	242	60300	10255	13819	55	2289	10	6	242 / 7.5 / 36	20020	28 / 1.5 / 22
P09-ESC	PP-65-ESC	65,000	130	263	65325	11330	14656	60	2289	12	6	264 / 10.0 / 47	21945	28 / 1.5 / 22
P09-ESC	PP-70-ESC	70,000	140	281	70350	11870	15912	64	2289	12	6	282 / 10.0 / 47	23485	30 / 1.5 / 22
P09-ESC	PP-75-ESC	75,000	150	300	75375	12945	17169	68	2289	12	6	300 / 10.0 / 56	25025	33 / 1.5 / 22
P09-ESC	PP-80-ESC	80,000	160	320	80400	13485	18000	72	2289	14	6	320 / 10.0 / 56	26950	34 / 1.5 / 24
P09-ESC	PP-85-ESC	85,000	170	340	85006	14560	19262	78	2289	14	6	340 / 10.0 / 56	28490	36 / 1.5 / 24
P09-ESC	PP-90-ESC	90,000	180	360	90031	15100	20519	82	2480	16	6	360 / 10.0 / 56	30030	38 / 1.5 / 24
P09-ESC	PP-95-ESC	95,000	190	378	95056	16175	21775	86	2670	16	6	378 / 10.0 / 59	31955	40 / 1.5 / 24
P09-ESC	PP-100-ESC	100,000	200	397	100081	16715	22612	90	2670	16	6	398 / 10.0 / 59	33495	42 / 2.0 / 24

Notes:

1. # BOD is based on .2 # per capita
 2. CFM is based on 2050 cu. ft. / #BOD 5
 3. 24 Hr. retention of design flow rate
 4. 4 Hr. retention of design flow rate
 5. 3.0 cu. ft. per capita*
 6. 30 cfm / 1000 cu. ft.
 7. 15 min. retention @ peak flow rate
 8. 33% of design flow rate
 9. 1.25 cfm / 1000 gal.
- * Per Ten State Standards