

Sizing Data - Ejector Venturi Gas Scrubbers

- Type 7010 Scrubbers
- Type 7014 Scrubber/Separator Systems

INTRODUCTION

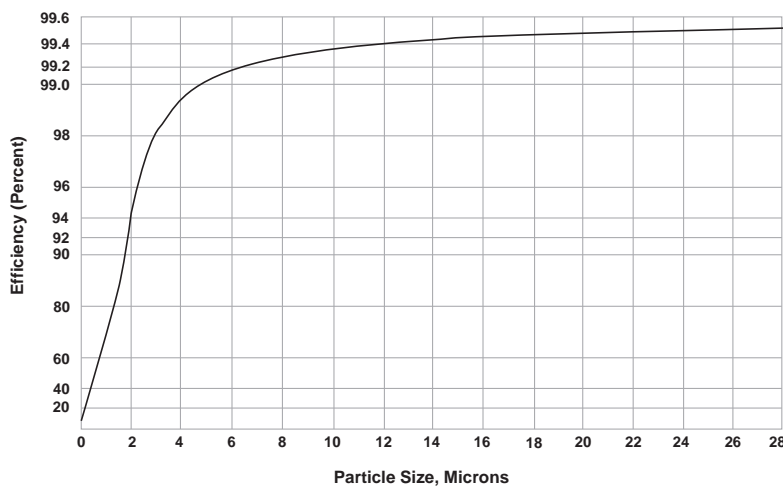
The capacity tables in this brochure permit the user to size a Type 7010 or Type 7014 Ejector-Venturi Scrubber System to meet specific volume requirements (consult Bulletin 7S for a complete description of these scrubbers). The scrubbers covered by this booklet include 3" through 60" Type 7010 Scrubbers and 3" through 12" Type 7014 Scrubber/Separator Systems. Of course, a number of other variables must be considered before specifying a scrubber for a particular application. To obtain a detailed recommendation and price quotation on an ejector-venturi scrubbing system, submit your requirements on our Scrubber Application Data Form and send it to your local S&K representative or the factory.

Data on larger and/or specially constructed units can be furnished on request.

SPECIFIC GRAVITY CONVERSION

All capacity tables in this booklet are based on using water (specific gravity 1.00) as the motive liquid. If a liquid other than water is to be used, its specific gravity must be multiplied by the motive liquid pressures shown in the tables (20, 40, 60, 80 or 100 psig). The resulting number is the actual operating pressure required to obtain the results shown by the table at the various liquid pressures and rates.

Graph 1. Particulate Removal Efficiency - Type 7014 Systems*



*Curve represents efficiency range of typical sizes of Type 7014 Scrubber/Separator systems. Efficiency is also dependent on scrubbing liquid pressure at the scrubber nozzle, grain loading of the inlet gas and true density.

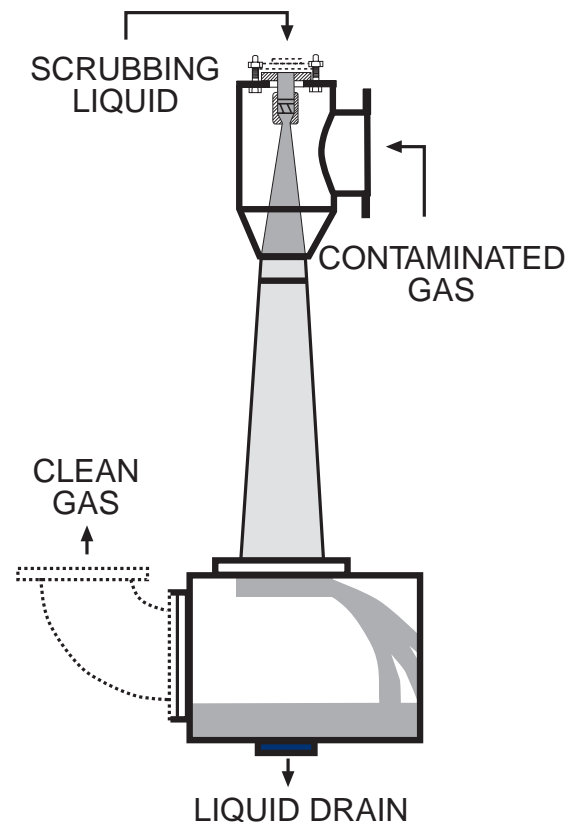


Table 1. Gas Handling Capacities - Type 7010 Scrubbers With Small Nozzles

DRAFT (IN. H ₂ O DIFF.)	WATER PRESS- URE (psig)	SCRUBBER SIZE (INCHES)															
		4	6	8	10	12	14	16	18	20	24	30	36	42	48	54	60
		CAPACITIES (cfm air at flowing conditions)															
0	20	54	140	240	395	1000	1440	1777	2454	3484	4315	6743	10094	14350	19353	26342	34406
0	40	86	225	385	630	1425	2052	2533	3497	4965	7218	11279	16884	24003	32371	44060	57548
0	60	110	290	490	810	1815	2613	3226	4454	6324	9247	14450	21631	30751	41472	56448	73728
0	80	133	350	595	980	2035	2930	3617	4994	7090	10378	16216	24275	34510	46540	63347	82739
0	100	162	430	725	1190	2215	3189	3937	5436	7718	11457	17901	26799	38098	51379	69932	91340
0.25	20	25	65	110	180	645	928	1146	1583	2247	3082	4816	7210	10250	13824	18816	24576
0.25	40	76	200	340	560	1245	1792	2213	3055	4338	6242	9753	14601	20757	27995	38102	49766
0.25	60	103	270	460	760	1730	2491	3075	4246	6028	8297	12964	19408	27591	37209	50646	66150
0.25	80	127	335	570	935	1970	2836	3502	4835	6864	9941	15533	23254	33058	44582	60681	79257
0.25	100	157	425	700	1150	2160	3110	3839	5301	7526	11174	17460	26138	37158	50112	68208	89088
0.5	20	10	26	45	73	400	576	711	981	1393	2157	3371	5047	7175	9676	13171	17203
0.5	40	64	170	285	470	1050	1512	1866	2577	3658	5317	8308	12438	17682	23846	32457	42393
0.5	60	96	250	430	705	1615	2325	2871	3963	5627	7218	11279	16884	24003	32371	44060	57548
0.5	80	121	320	540	890	1900	2736	3377	4663	6620	9427	14730	22052	31349	42278	57545	75161
0.5	100	150	395	670	1100	2100	3024	3733	5154	7317	10815	16898	25297	35962	48499	66012	86220
0.75	20	0	0	0	0	200	288	355	490	696	1567	2448	3665	5210	7027	9564	12429
0.75	40	45	120	200	330	860	1238	1528	2110	2996	4392	6863	10275	14607	19699	26812	35020
0.75	60	86	225	385	630	1475	2124	2622	3620	5139	6422	10034	15022	21355	28800	39200	51200
0.75	80	114	300	510	840	1810	2606	3217	4442	6306	8836	13807	20670	29385	39628	53939	70451
0.75	100	144	380	645	1060	2025	2916	3599	4970	7055	10378	16216	24275	34510	46540	63347	82739
1.0	20	0	0	0	0	65	93	115	159	226	950	1485	2223	3160	4262	5801	7577
1.0	40	31	80	140	225	695	1000	1235	1705	2421	3673	5739	8592	12215	16473	22422	29286
1.0	60	75	195	335	550	1300	1872	2311	3190	4529	5728	8950	13399	19049	25689	34966	45670
1.0	80	107	280	480	790	1700	2443	3022	4172	5923	8169	12764	19108	27164	36633	49862	65126
1.0	100	135	355	605	1000	1945	2800	3457	4773	6777	9838	15373	23014	32716	44121	60054	78438
1.5	40	15	40	67	110	440	633	782	1079	1533	2645	4134	6189	8798	11865	16150	21094
1.5	60	55	145	247	405	955	1375	1697	2343	3327	4701	7345	10996	15632	21081	28694	37478
1.5	80	89	235	395	655	1435	2066	2551	3522	5000	6858	10717	16043	22807	30758	41865	54681
1.5	100	117	310	525	860	1745	2512	3102	4283	6080	8477	13245	19829	28189	38016	51744	67584
2.0	40	3	8	13	22	230	331	408	564	801	1849	2889	4326	6150	8294	11289	14745
2.0	60	41	105	180	300	730	1051	1297	1791	2543	3879	6060	9073	12898	17395	23676	30924
2.0	80	74	195	330	540	1150	1656	2044	2822	4007	5857	9151	13700	19476	26265	35750	46694
2.0	100	103	270	460	760	1545	2224	2746	3792	5383	7269	11359	17005	24174	32601	44374	57958
3.0	60	20	50	90	145	355	511	631	871	1236	2568	4013	6008	8542	11520	15680	20480
3.0	80	55	145	245	405	705	1015	1253	1730	2456	4444	6944	10395	14778	19929	27126	35430
3.0	100	83	220	370	610	1105	1591	1964	2712	3850	5857	9151	13700	19476	26265	35750	46694
4.0	80	33	85	150	240	415	597	737	1018	1446	3159	4937	7390	10506	14169	19286	25190
4.0	100	62	165	275	455	750	1080	1333	1840	2613	4726	7385	11056	15717	21196	28851	37683
MOTIVE LIQUID FLOW (gpm)																	
Nozzle Flow	20	1.9	6.0	9.2	16	27	38	47	66	94	138	216	324	461	622	846	1105
Nozzle Flow	40	2.6	8.5	14.0	24	38	54	67	93	132	195	305	456	649	875	1191	1556
Nozzle Flow	60	3.2	10.0	17.0	29	47	67	83	115	163	241	377	564	802	1082	1473	1925
Nozzle Flow	80	3.8	12.0	20.0	34	55	79	97	134	191	282	441	660	939	1267	1724	2252
Nozzle Flow	100	4.2	13.0	22.0	39	61	87	108	149	212	313	489	733	1042	1405	1912	2498

Data on larger and/or specially constructed units can be furnished on request.

Table 2. Gas Handling Capacities - Type 7010 Scrubbers With Standard Nozzles

DRAFT (IN. H ₂ O DIFF.)	WATER PRESS- URE (psig)	SCRUBBER SIZE (INCHES)															
		3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	54
		CAPACITIES (cfm air at flowing conditions)															
0	20	28	59	155	265	435	1040	1497	1848	2331	3310	4880	7626	11416	16230	21888	29792
0	40	48	102	270	460	750	1600	2304	2844	3644	5174	7629	11921	17846	25370	34214	46569
0	60	64	135	355	600	990	2000	2880	3555	4675	6637	9787	15292	22893	32545	43891	59740
0	80	74	161	425	620	1180	2430	3499	4319	5105	7247	10686	16697	24996	35535	47923	65228
0	100	86	183	485	815	1340	2660	3830	4728	5902	8380	12356	19306	28902	41088	55411	75420
0.25	20	19	41	110	185	300	830	1195	1475	1644	2334	3442	5378	8051	11446	15436	21011
0.25	40	45	95	250	425	700	1500	2160	2666	3362	4773	7038	10998	16464	23405	31564	42963
0.25	60	61	130	345	580	955	1930	2779	3431	4430	6289	9273	14490	21692	30837	41587	56604
0.25	80	74	158	415	705	1160	2360	3398	4195	4921	6986	10301	16095	24095	34254	46195	62876
0.25	100	85	180	475	800	1320	2630	3787	4675	5767	8188	12073	18865	28241	40148	54144	73696
0.5	20	13	27	71	120	200	560	806	995	1251	1777	2620	4094	6129	8713	11750	15993
0.5	40	40	85	225	380	625	1330	1915	2364	3006	4268	6293	9834	14721	20928	28224	38416
0.5	60	58	123	325	550	905	1840	2649	3271	4062	5766	8503	13285	19889	28274	38131	51900
0.5	80	72	153	405	680	1120	2270	3268	4035	4724	6707	9850	15453	23134	32887	44352	60368
0.5	100	83	176	465	785	1290	2560	3686	4551	5608	7961	11739	18343	27460	39037	52646	71657
0.75	20	8.5	18	47	80	130	420	604	746	944	1341	1978	3090	4626	6577	8870	12073
0.75	40	35	75	195	335	550	1130	1627	2008	2601	3693	5446	8509	12738	18109	24422	33241
0.75	60	54	115	305	510	845	1730	2491	3075	3608	5122	7552	11800	17666	25114	33868	46099
0.75	80	69	147	390	655	1080	2180	3139	3875	4528	6428	9479	14811	22172	31520	42508	57859
0.75	100	81	172	455	770	1260	2490	3585	4426	5424	7700	11354	17741	26559	37756	50918	69305
1.0	20	5.2	11	29	49	80	300	432	533	711	1010	1489	2328	3485	4954	6681	9094
1.0	40	31	66	175	295	485	1000	1440	1777	2233	3170	4675	7305	10936	15546	20966	28537
1.0	60	50	106	280	475	780	1600	2304	2844	3215	4564	6730	10516	15743	22380	30182	41081
1.0	80	66	140	370	625	1030	2050	2952	3644	4344	6167	9093	14209	21271	30239	40780	55507
1.0	100	78	166	440	740	1210	2400	3456	4266	5227	7421	10943	17099	25597	36389	49075	66796
1.5	40	24	51	135	230	375	750	1080	1333	1718	2439	3596	5619	8412	11959	16128	21952
1.5	60	43	92	240	410	675	1350	1944	2399	2613	3710	5471	8549	12798	18194	24537	33398
1.5	80	59	125	330	560	915	1790	2577	3182	3865	5487	8091	12643	18927	26907	36288	49392
1.5	100	73	155	410	690	1140	2200	3168	3911	4810	6829	10070	15734	23554	33485	45158	61465
2.0	40	17	37	98	165	270	570	820	1013	1288	1829	2697	4214	6309	8969	12096	16464
2.0	60	38	80	210	360	585	1070	1540	1902	2233	3170	4675	7305	10936	15546	20966	28537
2.0	80	53	113	300	505	830	1600	2304	2844	3387	4808	7090	11078	16584	23576	31795	43276
2.0	100	67	142	375	635	1040	2000	2880	3555	4246	6028	8888	13888	20790	29556	39859	54252
3.0	40	7	15	40	67	110	300	432	533	809	1149	1695	2649	3965	5637	7603	10348
3.0	60	27	57	150	255	420	800	1152	1422	1779	2526	3724	5820	8712	12386	16704	22736
3.0	80	44	94	250	420	690	1240	1785	2204	2712	3850	5677	8870	13279	18878	25459	34652
3.0	100	54	120	315	535	880	1630	2347	2897	3276	4651	6858	10717	16043	22807	30758	41865
4.0	60	19	40	105	180	295	570	820	1013	1276	1811	2671	4174	6249	8883	11980	16307
4.0	80	36	76	200	340	560	920	1324	1635	2172	3083	4546	7104	10635	15119	20390	27753
4.0	100	46	98	260	440	720	1320	1900	2346	2822	4007	5908	9231	13820	19647	26496	36064
6.0	80	21	45	120	200	330	500	720	888	1423	2020	2979	4656	6970	9908	13363	18188
6.0	100	30	63	165	280	460	890	1281	1582	2049	2909	4290	6703	10034	14265	19238	26185
8.0	100	16	35	92	155	255	480	691	853	1435	2038	3005	4696	7030	9994	13478	18345
MOTIVE LIQUID FLOW (gpm)																	
Nozzle Flow	20	1.9	3.4	9.2	16	26	42	60	74	103	146	215	337	504	717	967	1317
Nozzle Flow	40	2.6	4.8	14.0	24	38	58	84	104	144	204	302	472	706	1004	1354	1843
Nozzle Flow	60	3.2	5.9	17.0	29	48	71	103	127	176	250	368	576	862	1226	1654	2251
Nozzle Flow	80	3.8	6.8	20.0	34	54	82	118	145	201	285	421	658	895	1400	1889	2571
Nozzle Flow	100	4.2	7.6	22.0	39	60	92	132	163	225	320	472	738	1105	1571	2119	2885

Data on larger and/or specially constructed units can be furnished on request.

Table 3. Gas Handling Capacities - Type 7010 Scrubbers With Large Nozzles

DRAFT (IN. H ₂ O DIFF.)	WATER PRESS- URE (psig)	SCRUBBER SIZE (INCHES)													
		3	4	6	8	10	12	14	16	18	20	24	30	36	42
		CAPACITIES (cfm air at flowing conditions)													
0	20	33	70	185	300	485	1155	1569	1937	2675	3798	5600	8750	13099	18622
0	40	54	115	300	490	800	1670	2304	2844	3927	5575	8220	12844	19228	27335
0	60	68	145	380	620	1000	2240	2980	3679	5080	7212	10635	16617	24876	35364
0	80	81	171	450	730	1190	2565	3477	4293	5927	8414	12407	19387	29022	41258
0	100	92	195	515	835	1350	2870	3801	4693	6479	9198	13563	21193	31726	45102
0.25	20	26	55	145	235	380	1000	1368	1688	2331	3310	4880	7626	11416	16230
0.25	40	52	111	290	475	770	1605	2167	2675	3693	5244	7732	12081	18086	25712
0.25	60	66	141	370	605	980	2165	2872	3546	4896	6951	10249	16015	23975	34083
0.25	80	79	168	445	720	1170	2515	3391	4186	5780	8205	12099	18905	28301	40233
0.25	100	90	192	550	820	1330	2820	3770	4660	6550	9150	13450	21200	31400	44800
0.5	20	21	45	120	190	310	835	1130	1395	1926	2735	4033	6301	9433	13411
0.5	40	47	100	265	430	695	1520	2016	2488	3436	4878	7192	11238	16824	23918
0.5	60	65	137	360	585	950	2090	2750	3395	4687	6655	9813	15333	22953	32631
0.5	80	77	164	430	705	1140	2465	3326	4106	5669	8049	11868	18544	27761	39465
0.5	100	89	189	500	810	1310	2770	3700	4568	6307	8955	13204	20631	30885	43907
0.75	20	17	37	95	155	255	675	936	1155	1595	2264	3339	5218	7811	11104
0.75	40	44	93	245	400	645	1410	1872	2311	3190	4529	6679	10436	15623	22209
0.75	60	62	131	345	560	910	2000	2628	3244	4479	6359	9376	14650	21932	31179
0.75	80	75	160	420	685	1110	2405	3240	3999	5522	7839	11559	18062	27039	38439
0.75	100	87	185	490	795	1280	2715	3636	4488	6197	8798	12972	20270	30344	43138
1.0	20	14	29	76	125	200	520	748	924	1276	1811	2671	4174	6249	8883
1.0	40	40	85	225	365	590	1300	1735	2142	2957	4198	6191	9673	14481	20586
1.0	60	59	125	330	535	870	1920	2498	3084	4258	6045	8914	13928	20850	29641
1.0	80	73	155	410	665	1080	2345	3139	3875	5350	7596	11200	17500	26198	37244
1.0	100	85	180	475	770	1250	2655	3578	4417	6099	8658	12767	19949	29864	42454
1.5	20	8	17	45	70	115	325	417	515	711	1010	1489	2328	3485	4954
1.5	40	35	75	195	320	520	1065	1461	1804	2491	3536	5214	8148	12198	17340
1.5	60	53	112	295	480	780	1765	2268	2799	3865	5487	8091	12643	18927	26907
1.5	80	69	147	385	630	1000	2215	2916	3599	4970	7055	10403	16256	24335	34595
1.5	100	82	173	455	740	1200	2525	3441	4248	5866	8327	12279	19186	28722	40831
2.0	20	0	0	0	0	0	175	180	222	306	435	642	1003	1502	2135
2.0	40	31	65	170	275	450	875	1224	1511	2086	2961	4367	6823	10215	14521
2.0	60	48	103	270	440	715	1600	2052	2533	3497	4965	7321	11439	17125	24345
2.0	80	65	139	365	595	965	2065	2721	3359	4638	6585	9710	15172	22713	32289
2.0	100	78	165	435	705	1150	2385	3290	4062	5608	7961	11739	18343	27460	39037
3.0	40	22	47	125	200	325	605	720	888	1227	1742	2568	4013	6008	8542
3.0	60	40	86	225	365	595	1270	1641	2026	2798	3972	5857	9151	13700	19476
3.0	80	58	123	325	525	855	1795	2376	2933	4049	5749	8477	13245	19829	28189
3.0	100	71	150	395	640	1040	2125	2952	3644	5031	7143	10532	16456	24636	35023
4.0	40	15	32	84	135	220	385	237	293	404	574	847	1324	1982	2818
4.0	60	34	72	190	310	500	985	1238	1528	2110	2996	4418	6903	10335	14692
4.0	80	51	108	285	460	750	1510	2016	2488	3436	4878	7192	11238	16824	23918
4.0	100	63	133	350	570	925	1870	2620	3235	4467	6341	9350	14610	21872	31093
6.0	60	22	47	125	200	325	565	396	488	674	958	1412	2207	3304	4698
6.0	80	40	84	220	360	580	1000	1281	1582	2184	3101	4572	7144	10695	15205
6.0	100	49	105	275	450	730	1365	1958	2417	3338	4738	6987	10917	16344	23234
8.0	60	10	21	55	90	145	150	0	0	0	0	0	0	0	0
8.0	80	31	65	170	275	450	645	568	702	969	1376	2029	3170	4747	6748
8.0	100	39	82	215	350	570	980	1274	1573	2172	3083	4546	7104	10635	15119
10	80	21	45	120	190	310	270	0	0	0	0	0	0	0	0
10	100	30	63	165	270	435	665	576	711	981	1393	2055	3211	4807	6833
12	80	5	11	29	47	76	0	0	0	0	0	0	0	0	0
12	100	22	47	125	200	325	365	0	0	0	0	0	0	0	0
14	100	14	30	79	125	205	95	0	0	0	0	0	0	0	0
MOTIVE LIQUID FLOW (gpm)															
Nozzle Flow	20	3.4	6.0	16	26	42	61	87	108	149	212	313	489	733	1042
Nozzle Flow	40	4.8	8.5	24	38	60	86	124	153	212	301	444	694	1039	1477
Nozzle Flow	60	5.9	10.0	29	48	72	106	152	188	260	369	544	850	1273	1810
Nozzle Flow	80	6.8	12.0	34	54	83	128	184	227	314	446	657	1027	1538	2186
Nozzle Flow	100	7.6	13.0	39	60	93	137	197	243	336	477	703	1099	1646	2340

Data on larger and/or specially constructed units can be furnished on request.

Table 4. Gas Handling Capacities - Type 7014 Systems With Small Nozzles

DRAFT (IN. H ₂ O DIFF.)	WATER PRESSURE (psig)	SCRUBBER SIZE (INCHES)				
		4	6	8	10	12
		CAPACITIES (cfm air at flowing conditions)				
-1.0	80	133	345	600	990	1900
-1.0	100	154	395	700	1150	2010
-0.5	40	88	230	395	650	1320
-0.5	60	108	275	485	800	1600
-0.5	80	125	322	570	935	1780
-0.5	100	145	372	660	1090	1920
0.0	20	42	112	200	315	750
0.0	40	76	196	345	570	1100
0.0	60	94	250	420	730	1450
0.0	80	116	300	525	865	1650
0.0	100	136	346	620	1020	1810
0.25	20	25	60	100	170	550
0.25	40	67	172	300	500	950
0.25	60	88	230	410	680	1350
0.25	80	111	285	500	830	1575
0.25	100	130	335	595	970	1750
0.5	20	10	25	40	60	350
0.5	40	55	145	250	400	840
0.5	60	83	210	375	620	1250
0.5	80	105	270	480	790	1500
0.5	100	125	320	570	920	1700
0.75	40	42	100	180	320	720
0.75	60	75	190	335	560	1150
0.75	80	98	250	445	740	1430
0.75	100	118	305	540	880	1620
1.0	40	30	80	130	220	620
1.0	60	66	170	300	490	1050
1.0	80	92	235	420	700	1340
1.0	100	114	290	515	840	1560
1.5	40	15	40	65	120	410
1.5	60	51	135	230	380	840
1.5	80	80	210	355	580	1160
1.5	100	105	265	460	760	1410
2.0	40	3	8	10	20	230
2.0	60	40	100	175	280	660
2.0	80	70	185	315	510	790
2.0	100	95	240	420	700	1270
2.5	60	30	72	130	210	500
2.5	80	61	160	280	445	820
2.5	100	86	220	385	630	1120
3.0	60	20	45	110	140	330
3.0	80	53	135	245	390	660
3.0	100	77	195	345	560	970
MOTIVE LIQUID FLOW (gpm)						
Nozzle Flow	20	1.9	6.0	9.2	16	27
Nozzle Flow	40	2.6	8.5	14.0	24	38
Nozzle Flow	60	3.2	10.0	17.0	29	47
Nozzle Flow	80	3.8	12.0	20.0	34	55
Nozzle Flow	100	4.2	13.0	22.0	39	61

Data on larger and/or specially constructed units can be furnished on request.

Table 5. Gas Handling Capacities - Type 7014 Systems With Standard Nozzles

DRAFT (IN. H ₂ O DIFF.)	WATER PRESSURE (psig)	SCRUBBER SIZE (INCHES)					
		3	4	6	8	10	12
		CAPACITIES (cfm air at flowing conditions)					
-1.0	60	66	135	350	605	1000	1870
-1.0	80	75	156	400	705	1150	2100
-1.0	100	84	172	440	780	1280	2250
-0.5	40	50	102	260	475	760	1450
-0.5	60	62	127	330	575	945	1750
-0.5	80	74	150	380	670	1100	1970
-0.5	100	80	165	420	745	1230	2150
0.0	20	25	50	125	240	380	860
0.0	40	44	90	230	420	680	1280
0.0	60	57	117	300	530	880	1600
0.0	80	68	142	360	625	1040	1840
0.0	100	77	157	400	715	1170	2050
0.25	20	18	37	95	175	290	670
0.25	40	40	83	215	380	620	1180
0.25	60	55	111	285	500	840	1530
0.25	80	66	136	347	600	1000	1770
0.25	100	75	154	390	680	1140	2000
0.5	20	12	25	65	120	190	520
0.5	40	36	75	200	340	560	1080
0.5	60	51	106	270	475	790	1450
0.5	80	63	131	335	580	960	1700
0.5	100	76	150	380	675	1110	1950
0.75	20	8	18	45	80	130	400
0.75	40	33	67	180	300	500	970
0.75	60	48	101	250	450	740	1360
0.75	80	60	125	325	560	920	1650
0.75	100	71	146	370	655	1070	1900
1.0	20	5	11	30	50	110	300
1.0	40	30	60	160	275	460	880
1.0	60	45	95	230	425	700	1270
1.0	80	58	120	310	540	880	1600
1.0	100	68	141	360	635	1040	1840
1.5	40	23	47	125	230	360	700
1.5	60	40	85	205	380	630	1110
1.5	80	53	111	290	500	830	1460
1.5	100	64	132	335	600	980	1730
2.0	40	17	35	95	155	270	550
2.0	60	36	75	180	335	560	970
2.0	80	49	103	270	460	780	1330
2.0	100	59	122	320	560	920	1620
3.0	40	7	15	40	65	110	300
3.0	60	27	57	140	250	400	750
3.0	80	41	88	225	395	670	1100
3.0	100	50	107	280	490	810	1420
MOTIVE LIQUID FLOW (gpm)							
Nozzle Flow	20	1.9	3.4	9.2	16	26	42
Nozzle Flow	40	2.6	4.8	14.0	24	38	58
Nozzle Flow	60	3.2	5.9	17.0	29	48	71
Nozzle Flow	80	3.8	6.8	20.0	34	54	82
Nozzle Flow	100	4.2	7.6	22.0	39	60	92

Data on larger and/or specially constructed units can be furnished on request.

**Table 6. Gas Handling Capacities -
Type 7014 Scrubbers With Large Nozzles**

DRAFT (IN. H ₂ O DIFF.)	WATER PRESSURE (psig)	SCRUBBER SIZE (INCHES)					
		3	4	6	8	10	12
		CAPACITIES (cfm air at flowing conditions)					
-1.0	60	68	143	370	625	1010	2000
-1.0	80	79	163	420	710	1170	2250
-1.0	100	88	180	465	790	1290	2430
-0.5	40	54	112	290	490	800	1550
-0.5	60	65	135	350	595	970	1910
-0.5	80	76	157	405	690	1120	2170
-0.5	100	85	175	450	770	1240	2350
0.0	20	29	60	155	260	420	970
0.0	40	50	102	260	440	740	1410
0.0	60	62	127	330	560	920	1810
0.0	80	72	150	390	660	1080	2080
0.0	100	83	169	435	740	1200	2280
0.25	20	25	52	135	210	350	850
0.25	40	46	95	245	415	680	1340
0.25	60	60	124	315	540	880	1750
0.25	80	71	148	380	645	1050	2030
0.25	100	81	166	430	725	1180	2240
0.5	20	20	43	105	190	300	700
0.5	40	43	90	230	380	630	1250
0.5	60	58	119	305	520	850	1700
0.5	80	70	145	375	635	1030	2000
0.5	100	80	163	420	720	1160	2200
0.75	20	17	36	95	150	260	600
0.75	40	40	84	215	360	590	1180
0.75	60	56	115	295	500	820	1650
0.75	80	68	142	365	620	1010	1950
0.75	100	78	161	415	695	1150	2160
1.0	20	13	30	75	125	200	500
1.0	40	38	80	205	345	560	1100
1.0	60	53	110	285	480	780	1600
1.0	80	66	139	360	605	980	1900
1.0	100	77	158	410	680	1120	2110
1.5	40	34	71	185	310	500	950
1.5	60	49	101	265	445	725	1480
1.5	80	63	132	340	575	940	1810
1.5	100	74	152	395	660	1080	2040
2.0	40	30	62	160	270	440	810
2.0	60	45	94	245	410	675	1360
2.0	80	60	126	325	545	895	1720
2.0	100	71	146	380	640	1040	1960
3.0	40	21	46	120	190	320	570
3.0	60	38	81	210	350	560	1120
3.0	80	54	113	295	495	800	1520
3.0	100	64	134	350	590	960	1780
MOTIVE LIQUID FLOW (gpm)							
Nozzle Flow	20	3.4	6.0	16	26	42	61
Nozzle Flow	40	4.8	8.5	24	38	60	86
Nozzle Flow	60	5.9	10.0	29	48	72	106
Nozzle Flow	80	6.8	12.0	34	54	83	128
Nozzle Flow	100	7.6	13.0	39	60	93	137

Data on larger and/or specially constructed units can be furnished on request.

