

# Sizing 3065 Aspirator Mixers - Table 3B

**Table 3B. 3065 Mixer Throat Areas & Capacities, scfh air @ 1" and 30" wc Differential Pressure  
(Pressure Drop Across Mixer = Air Pressure - Mixture Pressure)  
(for Btu/h, multiply by 100)**

## 3065(S) Mixers

3065(S) Mixer Size	Mixer Throat Area in <sup>2</sup>	Air Flow @1"wc	Air Flow @30"wc
-7-0	2.405	5 949	32 600
-7-4	2.393	5 919	32 400
-7-10	2.329	5 760	31 500
-7-12	2.295	5 676	31 100
-7-14	2.255	5 577	30 500
-7-15	2.233	5 522	30 200
-7-16	2.209	5 464	29 900
-7-18	2.157	5 335	29 200
-7-20	2.098	5 190	28 400
-7-24	1.963	4 857	26 600
-7-26	1.887	4 667	25 600
-7-28	1.804	4 462	24 400
-7-30	1.715	4 213	23 100
-7-32	1.620	3 953	21 700
-7-34	1.519	3 681	20 200
-7-36	1.411	3 444	18 900
-7-38	1.298	3 188	17 500
-7-S0	3.760	10 236	56 100
-7-S4	3.748	10 203	55 900
-7-S10	3.683	10 027	54 900
-7-S12	3.650	9 935	54 400
-7-S14	3.610	9 827	53 800
-7-S15	3.587	9 766	53 500
-7-S16	3.564	9 642	52 800
-7-S18	3.511	9 443	51 700
-7-S20	3.453	9 229	50 500

3065(S) Mixer Size	Mixer Throat Area in <sup>2</sup>	Air Flow @1"wc	Air Flow @30"wc
-7-S24	3.318	8 813	48 300
-7-S26	3.241	8 556	46 900
-7-S28	3.159	8 285	45 400
-7-S30	3.070	8 000	43 800
-7-S32	2.975	7 703	42 200
-7-S34	2.873	7 393	40 500
-7-S36	2.766	7 071	38 700
-7-S38	2.652	6 737	36 900
-8-0	5.940	15 381	84 200
-8-15	5.767	15 030	82 300
-8-16	5.743	15 063	82 500
-8-20	5.633	14 867	81 400
-8-24	5.498	14 602	80 000
-8-28	5.338	14 178	77 700
-8-32	5.154	13 689	75 000
-8-36	4.946	13 217	72 400
-8-40	4.712	12 594	69 000
-8-44	4.455	11 906	65 200
-8-48	4.172	11 151	61 100
-8-52	3.866	10 331	56 600
-8-56	3.534	9 446	51 700
-8-60	3.178	8 336	45 700
-8-64	2.798	7 292	39 900
-8-68	2.393	6 237	34 200
-8-72	1.963	5 117	28 000

3065(S) Mixer Size	Mixer Throat Area in <sup>2</sup>	Air Flow @1"wc	Air Flow @30"wc
-8-S0	8.621	23 325	127 800
-8-S15	8.448	22 718	124 000
-8-S16	8.424	22 514	123 300
-8-S20	8.314	22 081	120 900
-8-S24	8.179	21 587	118 200
-8-S28	8.019	21 033	115 200
-8-S32	7.835	20 420	111 800
-8-S36	7.626	19 750	108 200
-8-S40	7.393	19 146	104 900
-8-S44	7.136	18 478	101 200
-8-S48	6.853	17 747	97 200
-8-S52	6.547	16 844	92 300
-8-S56	6.215	16 095	88 200
-8-S60	5.859	15 271	83 600
-8-S64	5.479	14 461	79 200
-8-S68	5.074	13 224	72 400
-8-S72	4.644	12 027	65 900
-9-0	10.682	31 033	170 000
-9-24	10.241	29 239	160 000
-9-32	9.897	27 765	152 000
-9-40	9.455	26 526	145 000
-9-48	8.915	25 011	137 000
-9-56	8.277	23 221	127 000
-9-64	7.541	21 155	116 000
-9-72	6.706	17 812	98 000
-9-80	5.774	14 856	81 000

## SIZING EXAMPLES

**Note:** Most premix burner pressure specifications are rated in inches water column. Most North American, blower and mixer air pressure specifications, are rated in osi: 1 osi = 1.73"wc.

**Example A:** Select a mixer for a single 4651-2-D burner with 16 osi (27.7"wc.) air and 8"wc mixture pressure, with zero governor ratio control for natural gas.

— Since this is a standard burner nozzle size with zero governor ratio control, use **Table 1**. Find the -2-D burner and pick a **3065-2-0** mixer from the list to the left. Per **Table 3A**, the **3065-3-13** has the same mixer throat area, and offers more sizing options if field conditions require a new displacement rod choice.

**Example B:** Select a mixer for feeding six (6) 4651-2-A burners, with zero governor ratio control for natural gas.

— Since these are standard size burner nozzles with zero governor ratio control, use **Table 2**. Find the -2-A burner row move right and find the 6 burner column. Pick the **3065-6-20** Mixer from the list.