

Injector Selection Table for Mixed Butane—Air Gas

Gas at 15 Lbs. Pressure; Approximate Mixture Pressure of 5.0" w.c.*;
750 B.T.U.; 1.22 Specific Gravity; 6.78 Air-Gas Ratio
Based on 100% Air Entrainment thru Injector

Capacity CF/HR at 15 Lbs.	Catalog Number Injectors	Suggested burner area in square inches when using various types of burners at coefficient of discharge shown				100% Coefficient Discharge Burner
		Walltites 125%	Drilled Round Nose 87%	Sticktite or Ferrofix 75%	Blast Tips 60%	
25	H3 —66	.0444	.0638	.074	.0925	.0555
50	H3 —56	.088	.126	.147	.183	.110
75	H3 —53	.144	.207	.240	.300	.180
100	H4 —51	.182	.26	.302	.386	.226
125	H4 —48	.222	.320	.371	.462	.278
150	H4 —46	.264	.380	.44	.550	.33
175	H5 —43	.320	.460	.534	.666	.40
200	H5 —42	.356	.512	.593	.740	.445
250	H6 —37	.440	.632	.735	.915	.55
300	H6 —32	.548	.785	.915	1.14	.685
350	H6 — $\frac{1}{8}$	.635	.915	1.06	1.32	.795
400	H8 —29	.748	1.07	1.25	1.55	.935
450	H8 —28	.80	1.15	1.33	1.67	1.00
500	H8 —26	.902	1.29	1.50	1.87	1.12
550	H8 —23	.96	1.38	1.60	2.00	1.20
600	H8 —20	1.04	1.51	1.75	2.18	1.31
650	H8 —19	1.11	1.60	1.85	2.32	1.39
700	H10—17	1.21	1.75	2.03	2.53	1.52
750	H10—15	1.31	1.88	2.19	2.73	1.64
800	H10—13	1.38	1.99	2.31	2.88	1.73
850	H10—11	1.48	2.13	2.47	3.08	1.85
900	H10—9	1.55	2.23	2.60	3.23	1.94
950	H10—7	1.62	2.34	2.71	3.38	2.03
1000	H10—4	1.77	2.54	2.96	3.68	2.21
1100	H10— $\frac{1}{32}$	1.94	2.78	3.23	4.03	2.42
1200	H12—1	2.11	3.04	3.52	4.30	2.64
1300	H12—B	2.29	3.3	3.82	4.76	2.86
1400	H12—D	2.44	3.52	4.09	5.10	3.06
1600	H16—G	2.76	3.98	4.62	5.65	3.46
1800	H16—K	3.20	4.60	5.35	6.65	4.00
2000	H16—M	3.52	5.05	5.86	7.31	4.40
2250	H16— $\frac{5}{16}$	3.96	5.70	6.61	8.25	4.95
2500	H16— $\frac{3}{4}$	4.36	6.25	7.30	9.06	5.45
2750	H16— $\frac{11}{32}$	4.80	6.90	8.00	10.00	6.00
3000	H20—T	5.20	7.45	8.65	10.80	6.50
3500	H20—W	6.03	8.70	10.1	12.60	7.55
4000	H20—Z	6.90	9.95	11.6	14.40	8.65
4500	H24— $\frac{7}{16}$	7.75	11.3	13.0	16.15	9.71
5000	H24— $\frac{1}{2}$	8.10	11.7	13.5	16.85	10.11
5500	H24— $\frac{1}{2}$	10.20	14.6	16.9	21.00	12.65
6000	H24— $\frac{33}{64}$	10.72	15.5	18.0	22.10	13.45

*Mixture Pressure:—The Mixture Pressure that can be developed will vary depending on piping conditions and draft and will vary directly with changes in Gas Pressure.

CORRECTION FACTORS FOR CAPACITIES AT OTHER THAN 15 LBS. PRESSURE

Pounds Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13
Correction Factor . . . . .	.268	.365	.447	.515	.578	.633	.683	.73	.775	.815	.855	.895	.930
Pounds Pressure	14	15	16	17	18	19	20	21	22	23	24	25	
Correction Factor . . . . .	.965	1.00	1.03	1.065	1.095	1.125	1.155	1.182	1.211	1.24	1.265	1.29	