

Injector Selection Table for Low Natural Gas

Gas at 25 Lbs. Pressure; Approximate Mixture Pressure of 2.5" w.c.*;
976 B.T.U.; .57 Specific Gravity; 9.17 Air-Gas Ratio
Based on 100% Air Entrainment thru Injector

Capacity CF/HR at 25 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	H4 —73	.077	.11	.128	.16	.096
50	H44 —66	.146	.21	.245	.306	.183
75	H44 —59	.225	.324	.376	.470	.282
100	H54 — $\frac{3}{4}$	.296	.425	.493	.618	.37
125	H54 —54	.392	.563	.654	.817	.49
150	H65 —53	.478	.686	.795	.995	.597
175	H65 — $\frac{1}{2}$	.528	.756	.880	1.10	.66
200	H65 —51	.600	.86	1.00	1.25	.75
250	H86 —48	.735	.94	1.23	1.53	.92
300	H86 —45	.905	1.30	1.51	1.88	1.13
350	H86 —43	1.05	1.52	1.76	2.20	1.32
400	H108 —41	1.22	1.76	2.04	2.55	1.53
450	H108 —38	1.38	1.99	2.31	2.89	1.73
500	H108 —36	1.54	2.1	2.56	3.20	1.92
550	H108 —34	1.65	2.38	2.76	3.45	2.07
600	H1210—32	1.81	2.60	3.02	3.77	2.26
650	H1210—31	1.94	2.78	3.23	4.04	2.42
700	H1210— $\frac{1}{8}$	2.10	3.02	3.50	4.40	2.63
750	H1210—30	2.22	3.20	3.71	4.80	2.78
800	H1210—29	2.48	3.56	4.14	5.18	3.10
850	H1612—28	2.64	3.80	4.4	5.50	3.30
900	H1612— $\frac{3}{4}$	2.75	3.96	4.59	5.74	3.44
950	H1612—26	2.9	4.16	4.83	6.04	3.62
1000	H1612—25	3.0	4.30	4.98	6.24	3.74
1100	H1612—23	3.18	4.57	5.30	6.64	3.98
1200	H1612—20	2.48	5.00	5.80	7.25	4.35
1300	H1612—18	3.88	5.55	6.45	8.05	4.83
1400	H1612—16	4.30	6.15	7.15	8.95	5.36
1600	H2016—12	4.80	6.90	8.00	10.00	6.00
1800	H2016—7	5.40	7.75	9.00	11.25	6.75
2000	H2016—3	6.09	8.75	10.15	12.70	7.60
2250	H2420—1	7.10	10.00	10.3	14.50	8.74
2500	H2420—B	7.6	10.90	11.35	15.80	9.50
2750	H2420—D	8.25	11.80	12.7	17.20	10.30
3000	H2420—G	9.14	13.1	13.72	19.00	11.40
3500	H2420—K	10.55	15.2	15.20	22.00	13.20
4000	H2420—N	12.25	17.5	17.60	25.50	15.30
4500	H2420—O	13.35	19.2	22.30	27.90	16.70

*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 25 LBS. PRESSURE

Pounds Pressure.	1	2	3	4	5	6	7	8	9	10	11	12	13
Correction Factor. . . . .	.20	.283	.346	.400	.467	.490	.530	.565	.600	.631	.664	.793	.721
Pounds Pressure.	14	15	16	17	18	19	20	21	22	23	24	25	
Correction Factor.748	.775	.800	.825	.850	.881	.895	.915	.938	.96	.98	1.00	





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