Injector Selection Table for Medium Natural Gas

Gas at 25 Lbs. Pressure; Approximate Mixture Pressure of 2″ w.c.*; 1140 B.T.U.; .65 Specific Gravity; 10.7 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	H44 —72	.0975	.140	.163	.203	.122
50	H54 —64	.204	.293	.340	.425	.255
75	H54 —57	.29	.416	.483	.605	.362
100	H54 —3/64	.346	.496	.575	.721	.432
125	H65 —54	.46	.660	.766	.960	.575
150	H65 —53	.56	.805	.935	1.168	.700
175	H86 —51	.70	1.00	1.17	1.460	.875
200	H86 —49	.84	1.21	1.40	1.750	1.05
250	H86 —47	.985	1.42	1.64	2.050	1.23
300	H108 —43	1.24	1.78	2.07	2.59	1.55
350	H108 —41	1.44	2.07	2.40	3.00	1.80
400	H108 —39	1.56	2.24	2.60	3.26	1.95
450	H108 —36	1.80	2.59	3.00	3.75	2.25
500	H1210—35	1.90	2.72	3.16	3.95	2.37
550	H1210—32	2.12	3.04	3.54	4.41	2.65
600	H1210—1/8	2.45	3.52	4.10	5.12	3.07
650	H1210—30	2.60	3.75	4.35	5.44	3.26
700	H1612—29	2.90	4.16	4.83	5.04	3.62
750	H1612—28	3.10	4.46	5.18	6.48	3.88
800	H1612—9/64	3.15	4.50	5.20	6.50	3.90
850	H1612—27	3.27	4.68	5.43	6.80	4.07
900	H1612—26	3.48	5.00	5.80	7.25	4.35
950	H1612—24	3.62	5.20	6.04	7.55	4.52
1000	H1612—22	3.78	5.55	6.30	8.05	4.83
1100	H1612—19	4.21	6.20	7.22	9.00	5.40
1200	H1612—11/64	5.65	6.66	7.75	9.65	5.80
1300	H2016—15	5.09	7.30	8.45	10.60	6.35
1400	H2016—13	5.38	7.75	8.95	11.20	6.72
1600	H2016—9	6.03	8.65	10.09	12.60	7.55
1800	H2016—4	6.86	9.85	11.4	14.30	8.56
2000	H2420—2	7.7	11.00	12.8	16.00	9.6
2250	H2420—A	8.65	12.3	14.3	17.80	10.7
2500	H2420—D	9.5	13.62	15.8	19.80	11.85
2750	H2420—F	10.4	14.90	17.35	21.70	13.00
3000	H2420—I	11.6	16.70	18.35	24.20	14.50
3500	H2420—J	12.	17.20	20.00	25.00	15.0
4000	H2420—5/16	15.3	22.00	25.5	31.90	19.2

*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	