

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 | |