# Capacity | 4011/4021 Pilot

Table 1

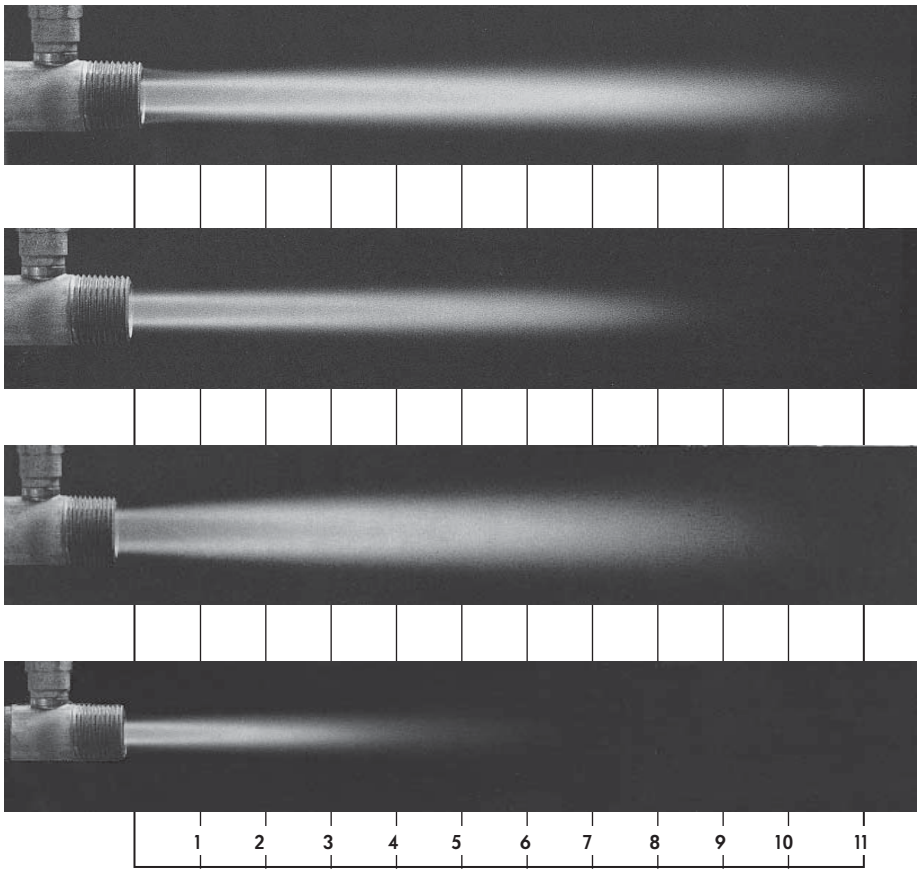
| 4021 Mixture P. "w.c. (mbar) | 4031 Inlet Air P. "w.c. [osi] (mbar) | 4031 Mixer DP "w.c. (mbar) | Air Flow scfh (Nm3/h) | Capacity Btu/h HHV (kW LHV) | Flame Length inches (mm) |
|---|---|---|---|---|---|
| 1" (2.5) | 2.9" [1.7] (7) | 1.9" (5) | 120 (3.4) | 12,000 (3.5) | 5" (130) |
| 2" (5.0) | 5.8" [3.4] (14) | 3.8" (9) | 165 (4.7) | 16,000 (4.7) | 7" (180) |
| 4" (10) | 12.0" [6.9] (30) | 8.0" (20) | 245 (6.9) | 24,000 (7.0) | 8" (200) |
| 7" (17) | 22.5" [12.9] (56) | 15.5" (39) | 325 (9.2) | 32,000 (9.4) | 9" (230) |
| 9" (20) | 29" [16.6] (72) | 20" (50) | 370 (10.5) | 36,000 (10.5) | 10" (250) |
| 12" (30) | 38" [22.2] (95) | 26" (65) | 425 (12) | 42,000 (12.3) | 10" (250) |

Table 1 above, and the figures below show pressures and capacity data for all 4011 pilot sets while burning. Note that these pressures, flows and flame lengths will vary depending on air/fuel ratio and burner mounting geometry, For most application set the air pressure into the 4031 mixer to 6-8 osi (10.5-14"w.c.) or mixture pressure to 3-5"w.c.

Maximum Mixture Pressure for stability or lighting with a cold tip firing in the open:

4021-12, 14, 16 (spark ignited) 12"w.c. / 4021-11, 13, 15 (manual) 9"w.c.

## 4021 PILOT FLAMES




**Scale**: length in inches

Stoichiometric ratio and 7"w.c. mixture pressure, produced by 16 osi air into 4031 Mixer--30,000 Btu/h HHV.

The same 7"w.c. mixture pressure with air/gas ratio set at 25% excess air.

The same 7"w.c. mixture pressure with air/gas ratio set at 15% excess fuel.

Stoichiometric ratio and 1"w.c. mixture pressure (12,500 Btu/h HHV).