



COST OF AN AIR LEAK in USD



Losses in USD as a function of Leak Diameter and Pressure

Conditions: Smooth Leak Hole, Leak coefficient = 97%, 7000 work hours, \$0.1/kWh

| Pressure P in PSI | Diameter of leak, inches | | | | | |
|-------------------|--------------------------|--------|--------|---------|---------|---------|
| P= | 1/64 | 1/32 | 1/16 | 1/8 | 1/4 | 3/8 |
| 70 | 29.33 | 117.33 | 469.32 | 1877.30 | 7499.42 | 16915.2 |
| 80 | 32.26 | 127.10 | 527.99 | 2092.41 | 8379.40 | 18870.8 |
| 90 | 36.17 | 146.66 | 576.87 | 2327.07 | 9269.16 | 20826.3 |
| 100 | 40.08 | 156.44 | 635.54 | 2542.18 | 10168.7 | 22879.6 |
| 125 | 43.51 | 195.55 | 772.43 | 3089.72 | 12319.8 | 27768.4 |



Losses in USD as a function of Leak Diameter and Pressure

Conditions: Leak hole with burrs and bad passage, Leak coefficient = 60% 7000 work hours, \$0.1/kWh

| Pressure P in PSI | Diameter of leak, inches | | | | | |
|-------------------|--------------------------|--------|---------|---------|---------|---------|
| P= | 1/64 | 1/32 | 1/16 | 1/8 | 1/4 | 3/8 |
| 70 | 18.44 | 73.78 | 295.142 | 1180.57 | 4716.13 | 10637.4 |
| 80 | 20.29 | 79.93 | 332.035 | 1315.84 | 5269.52 | 11867.2 |
| 90 | 22.75 | 92.23 | 362.779 | 1463.41 | 5829.06 | 13096.9 |
| 100 | 25.21 | 98.38 | 399.672 | 1598.69 | 6394.75 | 14388.2 |
| 125 | 27.36 | 122.97 | 485.755 | 1943.02 | 7747.49 | 17462.6 |

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