

85 K.W.

Vaporization Rate Charts

Figures in B.T.U.'s on this chart are approximate as there will be many variations due to tank location, wind velocity, humidity, altitude, type of demand or draw (such as periodic or continuous loads).

Its purpose is to help select the proper size LP gas storage tank for a new installation or should be used when checking a troublesome installation. REMEMBER, unless all gas consuming appliances receive the required flow of gas at the correct pressure, trouble can be expected and will NEVER be corrected until the required volume is delivered. Therefore, selecting the CORRECT size storage tank is CRITICAL.

Calculations are based upon continuous withdrawal, minimum liquid temperature at -20 degrees F. with a tank pressure of 10.7 pounds in still air conditions in open area. Propane at 2,500 B.T.U.'s per Cu. foot = 91,000 B.T.U. per gallon of liquid at 60 degrees F.

500 Gal. Tank - 41" x 8' 8" overall, using percent in tank at various temperatures.

| Temp. Deg. F. | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | Temp. Deg. F. |
|---------------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|---------------|
| 90 | 523,250 | 659,750 | 864,500 | 1,001,000 | 1,162,500 | 1,296,750 | 1,456,000 | 1,638,000 | 90 |
| 80 | 465,920 | 614,250 | 773,500 | 910,000 | 1,055,600 | 1,183,000 | 1,351,350 | 1,487,850 | 80 |
| 70 | 418,600 | 559,650 | 682,500 | 819,000 | 966,500 | 1,073,350 | 1,214,850 | 1,351,350 | 70 |
| 60 | 374,920 | 486,850 | 605,150 | 728,000 | 841,750 | 910,000 | 1,078,350 | 1,192,100 | 60 |
| 50 | 327,600 | 432,250 | 532,350 | 637,000 | 737,100 | 841,750 | 941,850 | 1,023,750 | 50 |
| 40 | 273,000 | 346,000 | 455,000 | 546,000 | 637,000 | 728,000 | 805,350 | 841,750 | 40 |
| 30 | 227,500 | 304,850 | 373,100 | 455,000 | 523,250 | 609,700 | 682,500 | 750,750 | 30 |
| 20 | 182,000 | 236,600 | 304,850 | 364,000 | 395,850 | 477,750 | 532,350 | 614,250 | 20 |
| 10 | 136,500 | 182,000 | 227,500 | 273,000 | 295,750 | 364,000 | 386,750 | 455,000 | 10 |
| 0 | 91,000 | 113,750 | 154,700 | 182,000 | 204,750 | 236,600 | 259,350 | 295,750 | 0 |
| -10 | 45,000 | 59,150 | 77,350 | 91,000 | 100,100 | 113,750 | 136,500 | 150,150 | -10 |
| -20 | 22,750 | 29,125 | 38,250 | 45,250 | 50,000 | 56,250 | 68,200 | 75,100 | -20 |

Above figures are in B.T.U.'s per hour withdrawal.

1000 Gal. Tank - 41"x16' 3" overall, using percent in tank at various temperatures.

| Temp. Deg. F. | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | Temp. Deg. F. |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| 90 | 1,055,600 | 1,342,250 | 1,615,250 | 1,911,000 | 2,184,000 | 2,457,000 | 2,730,000 | 3,003,000 | 90 |
| 80 | 964,600 | 1,219,400 | 1,478,750 | 1,729,000 | 1,979,250 | 2,238,600 | 2,502,500 | 2,730,000 | 80 |
| 70 | 864,500 | 1,092,000 | 1,319,500 | 1,547,000 | 1,774,500 | 2,002,000 | 2,229,500 | 2,457,000 | 70 |
| 60 | 773,500 | 978,250 | 1,183,000 | 1,525,000 | 1,592,500 | 1,797,250 | 2,002,000 | 2,206,750 | 60 |
| 50 | 682,500 | 855,400 | 1,023,750 | 1,325,000 | 1,387,750 | 1,569,750 | 1,751,750 | 1,933,750 | 50 |
| 40 | 582,400 | 728,000 | 887,250 | 1,150,000 | 1,183,000 | 1,342,250 | 1,501,500 | 1,660,750 | 40 |
| 30 | 491,400 | 523,250 | 728,000 | 864,500 | 1,001,000 | 1,128,400 | 1,251,250 | 1,387,750 | 30 |
| 20 | 391,300 | 477,350 | 491,500 | 682,500 | 796,250 | 896,350 | 1,000,100 | 1,092,000 | 20 |
| 10 | 291,200 | 364,000 | 432,250 | 523,250 | 591,500 | 673,400 | 750,750 | 819,000 | 10 |
| 0 | 200,200 | 236,600 | 295,750 | 341,250 | 395,850 | 455,000 | 500,500 | 546,000 | 0 |
| -10 | 109,200 | 127,400 | 145,600 | 182,000 | 204,750 | 227,500 | 250,250 | 273,000 | -10 |
| -20 | 50,000 | 64,200 | 72,350 | 90,250 | 101,300 | 112,250 | 122,150 | 135,250 | -20 |

Above figures are in B.T.U.'s per hour withdrawal.