

**Fuel Gas Specifications**

Properties	Propane	Butane	Natural
Formula	C <sub>3</sub> H <sub>8</sub>	C <sub>4</sub> H <sub>10</sub>	CH <sub>4</sub>
Boiling Point	-44°F	31°F	-263°F
Sp.Gr. of Gas	1.53	2.00	0.60
Sp.Gr. of Liquid	0.51	0.58	-NA-
Lb / Gal of Liquid	4.24	4.81	-NA-
BTU / Gal.	91,690	102,032	-NA-
BTU / Lb.	21,591	21,221	-NA-
BTU / ft <sup>3</sup>	2,516	3,280	1,035
ft <sup>3</sup> / Gal.	36.39	31.26	-NA-
ft <sup>3</sup> / Lb.	8.547	6.510	-NA-
Lat heat of vap-btu/gal	785.0	808.0	-NA-
Comb Data / Air : Gas	23.8	31.0	9.5
Flash Point	-156°F	-76°F	-NA-
Ignition Temp.	896°F	788°F	1076°F
Max flame temp - air	3595°F	3615°F	3554°F
Max flame temp - O <sub>2</sub>	5108°F	5200°F	5090°F
Low limit of comb.	2.1%	1.8%	5.0%
High limit of comb.	10.1%	8.4%	15.0%

**Vapor Pressure of LP Gases**

Temperature (°F)	Propane	Butane
-40	3.6	
-30	8.0	
-20	13.5	
-10	20.0	
0	28.0	
10	37.0	
20	47.0	
30	58.0	
40	72.0	3.0
50	86.0	6.9
60	102.0	11.5
70	127.0	17.0
80	140.0	22.0
90	165.0	29.0
100	196.0	37.0

**LP Gas (propane) Cylinder Specifications**

TANK	Dimensions	Weight	Capacity	Vap. Cap
20#	12" dia x 18" long	18#	4.72	
30#	12" dia x 24" long	26#	7.08	
33#	13" dia x 27" long	35#	7.78	
40#	12" dia x 30" long	26#	9.43	
43#	13" dia x 33" long	41#	10.14	
50#	15" dia x 33" long	48#	11.79	
60#	12" dia x 43" long	48#	14.15	
100#	15" dia x 50" long	72#	23.58	
120 gal	24" dia x 68" long	288#	96	235,000
150 gal	24" dia x 84" long	352#	120	290,300
200 gal	30" dia x 79" long	463#	160	341,280
250 gal	30" dia x 94" long	542#	200	406,080
325 gal	30" dia x 119" long	672#	260	514,100
500 gal	37" dia x 119" long	1062#	400	634,030
1,000 gal	41" dia x 192" long	1983#	800	1,088,470

**Conversions**

Multiply	By	To Find
Inches of water	0.0361	PSI
PSI	27.67	Inches of water
Celsius	1.8	Fahrenheit (+32)
Fahrenheit (-32)	.555	Celsius
BTU	0.252	Calories
Calories	3.968	BTU
BTU	0.00001	Therms
Therms	100,000	BTU
BTU	0.0029	Kilowatt hour
Kilowatt hour	3412	BTU
Inches	25.4	Millimeters
Millimeters	0.0393	Inches