

**TABLE 5 LP VAPOR (LPV) TANK SIZING**

**Vapor Withdrawal**

Tank Capacity Total (Gal.)	Tank Capacity Useable (Gal.)	Minimum Temp (°F)	Tank Capacity (btu/hr.)	Length (Inches)	Diameter (Inches)	Overall Ht. (Inches)
120	72	40	246,240	57	24	33
		20	164,160			
		0	82,080			
150	90	40	293,760	68	24	33
		20	195,840			
		0	97,920			
250	150	40	507,600	94	30	39
		20	338,400			
		0	169,200			
325	195	40	642,600	119	30	39
		20	428,400			
		0	214,200			
500	300	40	792,540	119	37	46
		20	528,360			
		0	264,180			
850	510	40	1,217,700	165	41	50
		20	811,800			
		0	405,900			
1000	600	40	1,416,960	192	41	50
		20	944,640			
		0	472,320			

Load (kW)	BTU / Hr	LP Gal / Hr	NG Ft <sup>3</sup> / Hr	NG Therms/ HR
5	110,000	1.2	110	1.1
10	156,000	2	156	1.6
15	231,800	2.5	220	2.2
20	294,000	2.9	294	2.6
25	345,000	3.8	345	3.2
30	418,300	4.5	417	4.2
35	485,000	5.1	485	4.8
40	550,000	6.1	550	5.5
50	655,000	7.5	655	6.7
60	836,600	9	862	8.6
70	1,035,700	11	1,020	10.2
80	1,170,000	12.7	1,154	11.5
90	1,200,000	13	1,200	12
100	1,280,000	13.8	1,260	12.6
110	1,550,000	17.1	1,550	15.5
120	1,675,000	18.5	1,675	16.7
130	1,800,000	19.5	1,786	17.8
140	1,925,000	21.3	1,925	19.2
150	2,050,000	22.7	2,050	20.5
200	2,800,000	30.9	2,800	28.0
300	4,100,000	45.3	4,100	49.0

Gas Required For Common Appliances	
Appliance	Approximate Input BTU / Hr
Warm Air Furnace Single Family Multifamily, per unit	100,000 60,000
Hydronic Boiler, Space Heating Single Family Multifamily, per unit	100,000 60,000
Hydronic Boiler, Space and Water Heating Single Family Multifamily, per unit	120,000 75,000
Range, Free Standing, Domestic Built-In Oven or Broiler Unit, Domestic Built-In Top Unit, Domestic	65,000 25,000 40,000
Water Heater, Automatic Storage, 30 to 40 gal. Tank Water Heater, Automatic Storage, 50 gal. Tank Water Heater, Automatic Storage, Instantaneous 2 GPM 4 GPM 6 GPM Water Heater, Domestic, Circulating or Side-Arm	35,000 50,000 142,800 285,000 428,000 35,000
Refrigerator Clothes Dryer, Type 1 (Domestic) Gas Fireplace Direct Vent Gas log Barbecue Gas light Incinerator, Domestic	3,000 35,000 40,000 80,000 40,000 2,500 35,000

Table Reprinted From Table 5.4.2.1, NFPA 54, 2002 ed.

<b>Operating Cost Per Hour</b>
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NG Therms/HR x Cost of NG Therm

Note: Tank BTU capacity and generator run times based upon maintaining a minimum tank fuel level of 20%. Tanks are typically filled to 80% full.

Note: Typical fuel consumption based on a generator 100% loaded.