

Fuel Supply Requirements - 60 Hz				
Model	Natural Gas		LP Vapor	
	1/2 Load	Full Load	1/2 Load	Full Load
<b>40224, 40220, 40298, 40298A, 40301, 40248, 40299 (7kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	80.00	137.00	33.00	56.00
BTU's/hour	80,000.00	137,000.00	82,500.00	140,000.00
Gallons/hour	0.97	1.66	0.92	1.56
kg/hour	3.51	6.02	3.33	5.65
MJ/hour	84.40	144.54	87.04	147.71
Cubic meters/hour (m <sup>3</sup> /hour)	2.27	3.88	0.93	1.59
Cost per hour	\$ 0.24	\$ 0.41	\$ 2.53	\$ 4.30
<b>40243, 40243A (10kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	84.00	162.00	34.55	65.45
BTU's/hour	84,000.00	162,000.00	86,375.00	163,625.00
Gallons/hour	1.02	1.96	0.96	1.82
kg/hour	3.69	7.12	3.49	6.60
MJ/hour	88.62	170.92	91.13	172.63
Cubic meters/hour (m <sup>3</sup> /hour)	2.38	4.59	0.98	1.85
Cost per hour	\$ 0.25	\$ 0.49	\$ 2.65	\$ 5.02
<b>40229, 40302, 40302A (12kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	102.00	195.00	41.09	78.91
BTU's/hour	102,000.00	195,000.00	102,725.00	197,275.00
Gallons/hour	1.23	2.36	1.14	2.19
kg/hour	4.48	8.56	4.15	7.96
MJ/hour	107.62	205.74	108.38	208.14
Cubic meters/hour (m <sup>3</sup> /hour)	2.89	5.52	1.16	2.23
Cost per hour	\$ 0.31	\$ 0.59	\$ 3.15	\$ 6.05
<b>40210, 40303, 40303A (15kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	126.00	242.00	56.00	107.64
BTU's/hour	126,000.00	242,000.00	140,000.00	269,100.00
Gallons/hour	1.53	2.93	1.56	2.99
kg/hour	5.53	10.63	5.65	10.86
MJ/hour	132.94	255.32	147.71	283.92
Cubic meters/hour (m <sup>3</sup> /hour)	3.57	6.85	1.59	3.05
Cost per hour	\$ 0.38	\$ 0.73	\$ 4.30	\$ 8.26
<b>40228, 40304, 40304A (18kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	160.00	293.40		
BTU's/hour	160,000.00	293,400.00		
Gallons/hour	1.94	3.55		
kg/hour	7.03	12.89		
MJ/hour	168.81	309.55		
Cubic meters/hour (m <sup>3</sup> /hour)	4.53	8.31		
Cost per hour	\$ 0.48	\$ 0.88		
<b>40226, 40305, 40305A (20kW)</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)			70.73	141.46
BTU's/hour			176,825.00	353,650.00
Gallons/hour			1.97	3.93
kg/hour			7.14	14.27
MJ/hour			186.56	373.12
Cubic meters/hour (m <sup>3</sup> /hour)			2.00	4.01
Cost per hour			\$ 5.43	\$ 10.85
<b>76000 (30/27 kW) Liq. Cooled</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	259.00	420.00	92.00	150.00
BTU's/hour	259,000.00	420,000.00	230,000.00	375,000.00
Gallons/hour	3.13	5.08	2.56	4.17
kg/hour	11.38	18.45	9.28	15.13
MJ/hour	273.26	443.12	242.66	395.65
Cubic meters/hour (m <sup>3</sup> /hour)	7.33	11.89	2.61	4.25
Cost per hour	\$ 0.78	\$ 1.26	\$ 7.19	\$ 11.72
<b>76001 (45/42 kW) Liq. Cooled</b>				
Cubic feet/hour (ft. <sup>3</sup> /hour)	483.00	777.00	178.00	297.00
BTU's/hour	483,000.00	777,000.00	445,000.00	742,500.00
Gallons/hour	5.85	9.40	4.95	8.26
kg/hour	21.21	34.13	17.96	29.96
MJ/hour	509.59	819.78	469.50	783.38
Cubic meters/hour (m <sup>3</sup> /hour)	13.68	22.00	5.04	8.41
Cost per hour	\$ 1.45	\$ 2.33	\$ 13.66	\$ 22.79

Fuel consumption for all of our standby models.

An important point to remember:

These are estimated fuel consumption rates.

BTU content of the fuel is greatly affected by elevation.

So, installers need to understand the BTU content for each application, and adjust fuel flow rates accordingly

Utility providers charge customers for natural gas in therms.

1 therm is equal to 100,000 BTU's.

It is also approximately 100 cubic feet of natural gas.

Huntsville Natural Gas Price per therm **\$0.300**

LPG (Propane) is sold per gallon.

Price per gallon **\$2.760**

( Moore Propane - 500 gallon fill-up)

4.23 pounds/gallon LP 1.53  
1.92 kg/gallon LP Pounds/hr 0.696  
kg/hr

1 Gal = 128 oz.

128 oz = 3.628739 kg

1 oz = 0.02834952 kg

1 " W.C. = 2.491 mBar

1 ft<sup>3</sup> LPG = 0.0278 gallons of LPG

1 gallon LPG = 35.97 ft<sup>3</sup> LPG

1 ft<sup>3</sup> NG = 0.012 gallons of NG

1 gallon NG = 82.62 ft<sup>3</sup> NG

1 BTU = 0.001055056 MJ (Megajoule) 0.0010551

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1 m<sup>3</sup> of natural gas is about 35.3 ft<sup>3</sup>

The average heat content of natural gas is about 1030 Btu/ft<sup>3</sup>

1 therm is approximately 100,000 Btu

So 35.3 ft<sup>3</sup> \* 1030 Btu/ft<sup>3</sup> \* 1 therm/100,000 Btu = 0.36 therms