

BTU'S Are a rate of usage

This is an all too common question, "What is the btu rating?"

Btu's are a rate of usage, the higher/ more you use, the more fuel/ btu usage.

The higher the pressure the more gas you can burn.

Here is a useful site with BTU ratings charts on burner rings:

<http://www.daganind.com/resources.html>

If you turn it up or turn it down your BTU usage will change.

We use 25,000 btu's per linear foot when calculate customs for 10~12" flame. For standard burners we actually hook to meter and measure at 800' elevation.

Burning 100,000 btu's = 1 gallon (actually 91,600 btu's = one gallon of propane, 103,000 btu's in one gallon of natural gas). If you have 5 gallons, you actually have 500,000 btu's to burn, 20 lb propane tank.

1 gallon = 100,000 btu's

5 gallons = 500,000 btu's

Burning at 100,000 btu's you will burn up one gallon an hour or 5 gallons in 5 hours

Burning at 20,000 btu's you will burn up 1 gallon in 5 hours and you will burn up 5 gallons in 20 hours.

Now for the long version:

Table 1 – Average Btu Content of Fuels

Electricity:

1 KW 3,412 Btu/hr

Natural Gas:

1 Cubic Foot of Natural Gas 1,030 Btu's

1 CCF = 100 Cu Ft = 1 Therm 103,000 Btu's

1 MCF = 1,000 Cu Ft = 10 Therms 1,034,000 Btu's = 1.034 MMBtu's

Propane:

1 Gal Propane 91,600 Btu's

1 Cu Ft Propane 2,500 Btu's

Gasoline:

1 Gal of Gasoline (mid grade) 125,000 Btu's

Ethanol:

1 Gal of Ethanol 76,000 Btu's

Fuel Oil:

1 Gal of #1 Kerosene 135,000 Btu's

1 Gal of #2 Fuel Oil 138,000 Btu's

1 Gal of #4 Fuel Oil 145,000 Btu's

1 Gal of #6 Fuel Oil 150,000 Btu's

Other:

Wood (air dried) 20,000,000/cord or 8,000/pound

Pellets (for pellet stoves; premium) 16,500,000/ton

Coal 28,000,000/ton

1 Barrel of Oil = 42 Gallons

1 Btu = 252 calories

1 Btu = .293 watt

1 ton of refrigeration = 12,000 Btu/hr

1lb residential garbage = 2,500 Btu

1lb coal = 12,000 Btu

1lb wood = 3,500 Btu

1hp = 746 watts

1hp = 33,479 Btu/hr (boiler)

1hp = 33,000 foot-lbs./min

1hp = 42,440 Btu/min.

1 watt = 3.412 Btu

1 kilowatt = 1,000 watts

1 kilowatt = 1.341 horsepower

1,000 kilowatts = 1 Megawatt

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