

Model BM620-9 Furnace System

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Heating Energy Cost Analysis
 Fuel Sources: Typical BTU Energy Per Unit: Units Required To Produce 18 million BTU's Of Heat:
 Current Price Per Unit: Operating
 Fuel Cost:
 3 DRY SHELLLED CORN 504,000 BTU / Bushel 36 Bushels x \$3.50 / Bushel = \$90.00
 3 WOOD PELLETS 18 mill. BTU / Ton 1 Ton x \$120.00 / Ton = \$120.00
 ELECTRICITY 3,412 BTU / KWH 5,275 KWH x \$0.08 / KWH = \$422.00
 NATURAL GAS 1000 BTU / cubic foot 18,000 cubic feet x \$0.0061 / cu. ft. = \$109.80
 FUEL OIL 140,000 BTU / gallon 129 gallons x \$0.95 / gallon = \$122.55
 L.P. GAS 91,000 BTU / gallon 198 gallons x \$0.80 / gallon = \$158.40
 WOOD (OAK) 26,300,000 BTU / full cord 69 full cords x \$145 / full cord = \$100.05
 4 COAL 12,000 BTU / pound 1500 (.75 tons) x \$140 / ton = \$105.00

Heat is measured in BTU's. One BTU is the amount of heat needed to raise one pound of water by one degree Fahrenheit. 18 million BTU's is about a quarter of the typical yearly heating requirement of an average home in a cold climate. In a warm climate, this figure may represent a full years heating requirement. Prices shown are conservative!
 1 Note: The 'cost' results above can be adapted to any price fluctuations in your area by supplementing the latest applicable Current Fuel Price per Unit.
 2 Note: Unless a 'gravity' hot water heating-circulation system is used, all common furnace types use approximately 200 KWH of electrical energy per year to force air or pump water, which adds an additional \$16 per year in electric consumption.
 3 Note: Shelled corn can be purchased at reduced prices (i.e. moldy corn, scorched corn, etc.). The BTU content of shelled corn will vary between 8,000 and 10,000 BTU/lb. and 9,000 BTUs (X 56 lbs. per Bushel) has been used in the example above. Use corn at 14-15% moisture content, or pellets at 8% moisture content supply this efficiency. Seasonally, dry shelled corn varies in price from \$1.50 to \$3.00 per bushel.
 4 Note: Coal varies in quality, with bituminous being the most effective at 12,000 BTU/lb. Sub-bituminous coal has a heating value of 8,750 BTU/lb. and lignite coal has a heating value of 6,500 BTU/lb. Commercial grade mixtures of coal have been declining steadily in quality since the late 1960s.