

HOW MUCH HEAT ARE YOU GETTING FOR YOUR DOLLAR?

ENERGY SOURCE	HEATING EQUIPMENT	ENERGY EQUATION*	AMOUNT OF HEAT PER \$1.00 SPENT
ELECTRICITY	WaterFurnace™ System** Geothermal Heat Pump	$\frac{3,413 \text{ BTU} \times 430\%}{\$0.11 \text{ per KWH}}$	133,400 BTUs
	Electric Furnace	$\frac{3,413 \text{ BTU} \times 100\%}{\$0.11 \text{ per KWH}}$	31,000 BTUs
	Air Source Heat Pump	$\frac{3,413 \text{ BTU} \times 240\%}{\$0.11 \text{ per KWH}}$	74,500 BTUs
OIL	Oil Furnace	$\frac{36,668 \text{ BTU} \times 60\%}{\$0.80 \text{ per Litre}}$	27,500 BTUs
	Hi Efficient Oil Furnace	$\frac{36,668 \text{ BTU} \times 90\%}{\$0.80 \text{ per Litre}}$	44,000 BTUs
PROPANE	Propane Furnace	$\frac{25,217 \text{ BTU} \times 60\%}{\$0.56 \text{ per Litre}}$	27,000 BTUs
	Hi Efficient Propane Furnace	$\frac{25,217 \text{ BTU} \times 96\%}{\$0.56 \text{ per Litre}}$	43,200 BTUs
NATURAL GAS	Natural Gas Furnace	$\frac{35,314 \text{ BTU} \times 60\%}{\$0.43 \text{ per Cubic Meter}}$	49,300 BTUs
	Mid Efficient Gas Furnace	$\frac{35,314 \text{ BTU} \times 80\%}{\$0.43 \text{ per Cubic Meter}}$	65,700 BTUs
	Hi Efficient Gas Furnace	$\frac{35,314 \text{ BTU} \times 96\%}{\$0.43 \text{ per Cubic Meter}}$	78,800 BTUs

The energy used to heat your house is measured in BTUs (British Thermal Units). The size of your furnace is measured in heating BTUs it can provide; for example a common furnace size is 50,000 BTUs.

$$\text{BTUs per \$1.00 Spent on Energy} = \frac{(\text{BTUs per Energy Used Conversion Factor}) \times (\text{Furnace Efficiency})}{(\text{Current Cost of Energy})}$$

Energy Used Conversion Factors

Electricity.....1 Kilowatt Hour = 3,413 BTUs

Oil.....1 Litre = 36,668 BTUs

Propane.....1 Litre = 25,217 BTUs

Natural Gas.....1 Cubic Meter = 35,314 BTUs

Table Notes

* The above calculations are based upon average operating furnace efficiencies that occur during a typical heating season. Energy costs are based on data from the Southern Ontario area March 2009.

** Efficiencies shown are for a WaterFurnace Envision 48,000 BTU, dual capacity model on a ground loop system.

www.waterfurnace.ca

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