

# WHAT'S YOUR COST FOR **HEAT**?



Just like your car, your house needs a certain amount of fuel to operate. That fuel is measured in BTUs. You can get BTUs from different types of home heating systems, sometimes at vastly different rates. Do you know how much you are paying for your BTUs? Call your local heating dealer to find out.

## What is a BTU?

A British Thermal Unit (BTU) is the amount of heat energy needed to raise the temperature of one pound of water by one degree F. This is the standard measurement used to state the amount of energy that a fuel has as well as the amount of output of any heat-generating device.

| ELECTRICITY: 3,413 Btu/kWh                    |      | Cost Per Million BTUs |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|---|------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |      | \$0.035               | \$0.040 | \$0.045 | \$0.050 | \$0.055 | \$0.060 | \$0.065 | \$0.070 | \$0.075 | \$0.080 | \$0.085 | \$0.090 | \$0.095 | \$0.100 | \$0.110 | \$0.120 | \$0.130 |
| <b>COP*</b>                                   |      |                       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Electrical Resistance Heat                    | 100% | 10.25                 | 11.72   | 13.18   | 14.65   | 16.11   | 17.58   | 19.04   | 20.51   | 21.97   | 23.44   | 24.90   | 26.37   | 27.83   | 29.30   | 32.23   | 35.16   | 38.09   |
| Steffes Electric Thermal Storage w/ Heat Pump | 165% | 6.22                  | 7.10    | 7.99    | 8.88    | 9.77    | 10.65   | 11.54   | 12.43   | 13.32   | 14.21   | 15.09   | 15.98   | 16.87   | 17.76   | 19.53   | 21.31   | 23.08   |
| Air Source Heat Pump                          | 325% | 3.16                  | 3.61    | 4.06    | 4.51    | 4.96    | 5.41    | 5.86    | 6.31    | 6.76    | 7.21    | 7.66    | 8.11    | 8.56    | 9.02    | 9.92    | 10.82   | 11.72   |
| Mitsubishi Hyper Heat                         | 350% | 2.93                  | 3.35    | 3.77    | 4.19    | 4.60    | 5.02    | 5.44    | 5.86    | 6.28    | 6.70    | 7.12    | 7.53    | 7.95    | 8.37    | 9.21    | 10.05   | 10.88   |
| Bryant Extreme Heat Pump or Geothermal System | 400% | 2.56                  | 2.93    | 3.30    | 3.66    | 4.03    | 4.39    | 4.76    | 5.13    | 5.49    | 5.86    | 6.23    | 6.59    | 6.96    | 7.32    | 8.06    | 8.79    | 9.52    |

| NATURAL GAS: 100,000 Btu/Therm     |     | Cost Per Million BTUs |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------------------------|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                    |     | \$0.60                | \$0.65 | \$0.70 | \$0.75 | \$0.80 | \$0.85 | \$0.90 | \$0.95 | \$1.00 | \$1.05 | \$1.10 | \$1.20 | \$1.30 | \$1.40 | \$1.50 | \$1.60 | \$1.70 |
| <b>AFUE**</b>                      |     |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 60% Efficient NG Heating Appliance | 60% | 10.00                 | 10.83  | 11.67  | 12.50  | 13.33  | 14.17  | 15.00  | 15.83  | 16.67  | 17.50  | 18.33  | 20.00  | 21.67  | 23.33  | 25.00  | 26.67  | 28.33  |
| 80% Efficient NG Heating Appliance | 80% | 7.50                  | 8.13   | 8.75   | 9.38   | 10.00  | 10.63  | 11.25  | 11.88  | 12.50  | 13.13  | 13.75  | 15.00  | 16.25  | 17.50  | 18.75  | 20.00  | 21.25  |
| 95% Efficient NG Heating Appliance | 95% | 6.32                  | 6.84   | 7.37   | 7.89   | 8.42   | 8.95   | 9.47   | 10.00  | 10.53  | 11.05  | 11.58  | 12.63  | 13.68  | 14.74  | 15.79  | 16.84  | 17.89  |

| PROPANE: 91,500 Btu/Gallon              |     | Cost Per Million BTUs |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|   |     | \$1.00                | \$1.25 | \$1.40 | \$1.50 | \$1.60 | \$1.70 | \$1.80 | \$1.90 | \$2.00 | \$2.10 | \$2.20 | \$2.30 | \$2.40 | \$2.50 | \$2.60 | \$2.70 | \$2.80 |
| <b>AFUE**</b>                           |     |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 60% Efficient Propane Heating Appliance | 60% | 18.21                 | 22.77  | 25.50  | 27.32  | 29.14  | 30.97  | 32.79  | 34.61  | 36.43  | 38.25  | 40.07  | 41.89  | 43.72  | 45.54  | 47.36  | 49.18  | 51.00  |
| 80% Efficient Propane Heating Appliance | 80% | 13.66                 | 17.08  | 19.13  | 20.49  | 21.86  | 23.22  | 24.59  | 25.96  | 27.32  | 28.69  | 30.05  | 31.42  | 32.79  | 34.15  | 35.52  | 36.89  | 38.25  |
| 95% Efficient Propane Heating Appliance | 95% | 11.50                 | 14.38  | 16.11  | 17.26  | 18.41  | 19.56  | 20.71  | 21.86  | 23.01  | 24.16  | 25.31  | 26.46  | 27.61  | 28.76  | 29.91  | 31.06  | 32.21  |

| FUEL OIL: 138,700 Btu/Gallon             |     | Cost Per Million BTUs |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|  |     | \$1.60                | \$1.80 | \$2.00 | \$2.10 | \$2.20 | \$2.30 | \$2.40 | \$2.50 | \$2.60 | \$2.70 | \$2.80 | \$2.90 | \$3.00 | \$3.25 | \$3.50 | \$3.75 | \$4.00 |
| <b>AFUE**</b>                            |     |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 84% Efficient Fuel Oil Heating Appliance | 84% | 14.54                 | 16.36  | 18.18  | 19.08  | 19.99  | 20.90  | 21.81  | 22.72  | 23.63  | 24.54  | 25.45  | 26.35  | 27.26  | 29.53  | 31.81  | 34.08  | 36.35  |

\*Coefficient Of Performance (COP) = Estimated average efficiency

\*\*Annual Fuel Utilization Efficiency (AFUE)

