NATURAL GAS COST COMPARISON

Listed below is the cost to produce 1 million BTU of heat. This is a direct cost comparison of different fuel sources and types of heating systems to produce the same amount of heat. You can use this to determine which heating system is the least expensive to operate.

Geothermal System Coefficient of Performance - 3.5 Electric Heat Rate - 84 kwh @ 7.0 cents/kwh =	\$ 5.88
All-Electric Heat Pump 16 SEER w/resistance coils COP 3.4 Electric Heat Rate - 117 kwh @ 7:0 cents/kwh =	1
	86.93
15% of heat from resistance heat - 18 kwh @ 7.0 cents/kwh	<u>\$1,26</u>
	\$ 8.19
All-Electric Heat Pump 13 SEER w/resistance coils COP 3.0 Electric Heat Rate - 127 kwh @ 7.0 cents/kwh =)
85% of heat from heat pump - 108 kwh @ 7.0 cents/kwh \$	7.56
15% of heat from resistance heat - 19 kwh @ 7.0 cents/kwh \$	<u>31.33</u>
	\$ 8.89
· · · · · · · · · · · · · · · · · · ·	
•	
	\$ 8.57
Natural Gas Furnace 90% efficiency	
11 therms @ \$1.21/therm =	\$13.31
11 therms @ \$1.50/therm =	\$16.50
Natural Gas Furnace 80% efficiency	415.70
13 therms @ \$1.21/therm = 13 therms @ \$1.50/therm =	\$15.73 \$10.50
15 dicinis (# \$1.50/filetin –	\$19.50
Electric Resistance Heat (electric furnace, baseboard, ceiling cabl	le)
Electric Heat Rate - 293 kwh @ 7.0 cents/kwh =	\$20.51

PROPANE COST COMPARISON

Listed below is the cost to produce 1 million BTU of heat. This is a direct cost comparison of different fuel sources and types of heating systems to produce the same amount of heat. You can use this to determine which heating system is the least expensive to operate.

Geothermal System Coefficient of Performance - 3.5 Electric Heat Rate - 84 kwh @ 7.0 cents/kwh =		\$ 5.88
All-Electric Heat Pump 16 SEER w/resistance coils COP 3 Electric Heat Rate - 117 kwh @ 7.0 cents/kwh =	3.4	
85% of heat from heat pump - 99 kwh @ 7.0 cents/kwh	\$6.93	
15% of heat from resistance heat - 18 kwh @ 7.0 cents/kwh	<u>\$1.26</u>	.0.10
		\$ 8.19
All-Electric Heat Pump 13 SEER w/resistance coils COP 3 Electric Heat Rate - 127 kwh @ 7.0 cents/kwh =	5.0	
85% of heat from heat pump - 108 kwh @ 7.0 cents/kwh	\$7.56	
15% of heat from resistance heat - 19 kwh @ 7.0 cents/kwh	<u>\$1.33</u>	# 0.00
		\$ 8.89
•		\$ 9.63
Add-On Heat Pump Electric Heat Rate - 13 SEER Heat Pump Air-Source Heat Pump-COP 3.0/90% propane gas furnace comb	ination	
1	\$5.46 \$ <u>4.80</u>	
2070 of fleat from gas - 2.4 garlons (a) \$2.00/garlon -	Ψ <u>τ.ου</u>	\$10.26
Propane Furnace 90% efficiency		
12 gallons @ \$1.75/gallon =		\$21.00
12 gallons @ \$2.00/gallon =		\$24.00
12 gallons @ \$2.25/gallon =		\$27.00
Propane Furnace 80% efficiency		
14 gallons @ \$1.75/gallon =		\$24.50
14 gallons @ \$2.00/gallon =		\$28.00
14 gallons @ \$2.25/gallon =		\$31.50
Electric Resistance Heat (electric furnace, baseboard, ceiling ca	able)	

\$20.51

Electric Heat Rate - 293 kwh @ 7.0 cents/kwh =