ELECTRIC ONLY

GAS HEAT CONSUMPTION ------> ELECTRIC HEAT CONSUMPTION COOLING SAVINGS

531 therms 4718 kWh 614 kWh



What does 531 therms equal in kWh?

SITE: 531 therms = 531 \* 100,000 (Btu/therm)

3412 (Btu/kWh)

= 15,563 kWh

Heat Savings = 15,563 – 4,718 = 10,845 kWh

Total Savings = 10,845 + 614

= 11,459 kWh

SOURCE: 531 therms = 531 \* 100,000 (Btu/therm)

10,000 (Btu/kWh)

= 5,310 kWh

Heat Savings = 5,310 – 4,718 = 592 kWh

Total Savings = 592 + 614

= 1,206 kWh

GAS ONLY

GAS HEAT CONSUMPTION ------> ELECTRIC HEAT CONSUMPTION COOLING SAVINGS

531 therms 4718 kWh 614 kWh



What does total electric impact (4718 – 614) = 4104 kWh equal in therms?

SITE: 4104 kWh = 4104 \* 3412 (Btu/kWh)

100,000 (Btu/therm)

= 140 Therms

Total Savings = 531 – 140 = 391 Therms

SOURCE: 4104 kWh = 4104 \* 10,000 (Btu/kWh)

100,000 (Btu/therm)

= 410.4 Therms

Total Savings = 531 – 410.4 = 120.6 Therms

ELECTRIC AND GAS

GAS HEAT CONSUMPTION ------> ELECTRIC HEAT CONSUMPTION COOLING SAVINGS

531 therms 4718 kWh 614 kWh



Baseline ASHP heat consumption = 5759 kWh

ELECTRIC UTILITY

Savings from baseline ASHP to efficient ASHP:

Savings = (5759 – 4718) + 614

= 1655 kWh

GAS UTILITY

Savings from existing gas to baseline ASHP:

What does base ASHP heating kWh equal in therms?

SITE: 5759 kWh = 5759 \* 3412 (Btu/kWh)

100,000 (Btu/therm)

= 196 Therms

Total Savings = 531 – 196 = 335 Therms

SOURCE: 5759 kWh = 5759 \* 10,000 (Btu/kWh)

100,000 (Btu/therm)

= 575.9 Therms

Total Savings = 531 – 575.9 = -45 Therms