How much does it cost to run your Coffee Machine?

You will first need to calculate your annual Kilowatt-hour (kWh) consumption. Then use that result to calculate your Annual Cost. The formulas for this is are as follows:

[ ] x [ ] x [ ] = 0

Equipment Wattage x Hours in Use per day x Days in Use per Year = **Annual Kilowatt-hour Consumption**

0 x [ ] = $0 **Reset**

Annual Kilowatt-Hour consumption/1,000 x the Cost per Hour (located on your power bill) = **Annual Cost**

Traditional Brewer

Assumptions

- 1,450 Watt tank element
- No warmer elements
- Cost per kWh is 8.5 cents
- Brewer is Connected 24 Hours per Day
- 10 Brews per Day at 6 Minutes per Brew
- 2 Cycles per Hour = 48 Cycles per Day

1. 10 Brews per Day that take 6 minutes each = 60 minutes of *"Brew Time"*.
2. 2 Cycles per Hour are needed just to keep the water in the tank within temperature range for brewing. This takes approximately 5 minutes per cycle which = 10 minutes of *each* hour *"Idle Time"*.
3. 2 cycles in each 24 hour day is 48 Cycles per Day. Subtract the 10 actual Brews per Day = 38 actual "*Idle Cycles*". (2 x 24 – 10 = 38).
4. You end up with 190 Minutes of "*Idle Time*" per Day. (38 x 5 = 190)
5. 60 minutes of *"Brew Time"* + 190 minutes of *"Idle Time*" = 250 minutes of time the machine is actually consuming power.
6. 250 minutes divided by 60 min (1 hour) = 4.17 kWh per day of Energy Consumption.
7. 1,450 Watts x 4.17 kWh x 365 days/1,000 = 2,206.97 kWh per year of Energy Consumption.
8. 2,206.97 kWh per year x 8.5 cents per kWh =

$187.59 per year

Energy Saver Brewer EST/ESA

Assumptions

- 1,450 Watt Heat Pump
- No *"Idle Time"*
- Cost per kWh is 8.5 cents
- Brewer is Connected 24 Hours per Day
- 10 Brews per Day at 8 Minutes per Brew

1. 10 Brews per Day that take 8 minutes each = 80 minutes of *"Brew Time"*.
2. 80 minutes divided by 60 minutes (1 hour) = 1.33 kWh per Day.
3. 1,450 watts x 1.33 kWh x 365 days/1,000 = 703.90 kWh per Year.
4. 703.90 kWh x 8.5 cents per kWh =

$59.82 per year