|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Device | Unit Number | Volt (V) | Current (I) | Power (W) | Hours of Use Per  Day | Days Used Per Yeas | Annual Energy  (kWh/year) |
| Heater | 1 | 220 | 0.5 | 112 | 2 | 365 | 81.76 |
| ADM | 1 | 220 | 10.9 | 2400 | 0.3 | 365 | 262.8 |
| Micro wave | 1 | 220 | 4.5 | 1000 | 0.2 | 365 | 73 |
| Dispenser | 1 | 220 | 7.7 | 1700 | 2 | 104 | 353.6 |
| refrigerator | 1 | 220 | - | - | - | - | 295 |
| Fridge | 1 | 220 | - | - | - | - | 512 |
| Router | 1 | 220 | 5.5 | 1200 | 1 | 156 | 187.2 |
| TV | 1 | 220 | 0.3 | 63 | 12 | 365 | 275.94 |
| Toaster | 1 | 220 | 0.1 | 25 | 12 | 365 | 109.5 |
| Console | 1 | 220 | 0.9 | 200 | 12 | 365 | 876 |
| Home automation | 1 | 220 | 0.7 | 150 | 2 | 120 | 36 |
| Router | 1 | 220 | 0.03 | 6 | 24 | 365 | 52.56 |
| AC1.5 Hp | 1 | 220 | 6.8 | 1500 | 12 | 120 | 2160 |
| AV 2.25 Hp | 1 | 220 | 8.2 | 1800 | 12 | 120 | 2592 |
| Console 2 | 1 | 220 | 5.5 | 1200 | 0.5 | 365 | 219 |

**Total annual energy usage( kWh/year)**

8086.36

efficiencies could be introduced:

* Replacing the Air Condition 1.5 hp, 2.25 hp by an Air condition unit with Energy Efficiency Class saving 30% in energy.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Device | Unit Number | Volt (V) | Current (I) | Power (W) | Hours of Use Per  Day | Days Used Per Yeas | Annual Energy  (kWh/year) |
| Heater | 1 | 220 | 0.5 | 112 | 2 | 365 | 81.76 |
| ADM | 1 | 220 | 10.9 | 2400 | 0.3 | 365 | 262.8 |
| Micro wave | 1 | 220 | 4.5 | 1000 | 0.2 | 365 | 73 |
| Dispenser | 1 | 220 | 7.7 | 1700 | 2 | 104 | 353.6 |
| refrigerator | 1 | 220 | - | - | - | - | 295 |
| Fridge | 1 | 220 | - | - | - | - | 512 |
| Router | 1 | 220 | 5.5 | 1200 | 1 | 156 | 187.2 |
| TV | 1 | 220 | 0.3 | 63 | 12 | 365 | 275.94 |
| Toaster | 1 | 220 | 0.1 | 25 | 12 | 365 | 109.5 |
| Console | 1 | 220 | 0.9 | 200 | 12 | 365 | 876 |
| Home automation | 1 | 220 | 0.7 | 150 | 2 | 120 | 36 |
| Router | 1 | 220 | 0.03 | 6 | 24 | 365 | 52.56 |
| AC1.5 Hp | 1 | 220 | 4.0 | 1000 | 12 | 120 | 1400 |
| AV 2.25 Hp | 1 | 220 | 5.5 | 1200 | 12 | 120 | 1728 |
| Console 2 | 1 | 220 | 5.5 | 1200 | 0.5 | 365 | 219 |

Total annual Reduced energy usage. kWh/year

6361.36

Total annual energy saving after efficiency improvements =1725 kWh/year