



Energy Local

Energy Savings from Efficient White Goods

We don't change our white goods very often. When we are standing in the show room, the savings from buying the most efficient models may be hard to imagine but, over the years, the savings add up.

Energy Efficiency ratings are from A+++ to C or D. Very old goods will have lower ratings than this scale. The fact that there are now new categories up to A+++ shows how much more efficient appliances can be nowadays. For most goods, no products are now sold with a rating below B or C.

Note that keeping old appliances as 'spares' could be a significant cost to you. Likewise accepting old appliances that have been 'passed on' may be costly in the long run.

Washing Machines

The energy ratings are assessed for a typical use per year and per cycle are given below (costs are estimated assuming a rate of 14p/kWh. **There is ~ £11/year saving between an A to A+++ rated machine and yet A+++ machines need not be more expensive to buy.**

| | A+++ | A++ | A+ | A | B | C | D |
|--|------|------|------|------|------|------|------|
| Max kWh/year for typical usage | 150 | 174 | 197 | 227 | 257 | 291 | 334 |
| Max cost/year for typical usage [£] | 21 | 24 | 28 | 32 | 36 | 41 | 47 |
| Savings of A+++ [£] | | 3 | 7 | 11 | 15 | 20 | 26 |
| Max kWh/cycle | 0.15 | 0.70 | 0.79 | 0.90 | 1.03 | 1.17 | 1.32 |

| | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|------|
| kWh | | | | | | | |
| Max cost/cycle [£] | 0.68 | 0.79 | 0.90 | 1.03 | 1.17 | 1.32 | 1.52 |
| Savings from A+++ /cycle [£] | | 0.11 | 0.22 | 0.35 | 0.49 | 0.64 | 0.84 |

Different machines use different amounts of water which you may also want to compare the amount of water that machines use especially if you are on a water meter.

Dishwashers

Dishwashers are rated according to a typical yearly usage.

| | A+++ | A++ | A+ | A | B | C | D |
|------------------------------------|-------------|------------|-----------|----------|----------|----------|----------|
| Max kWh/year | 208 | 240 | 273 | 314 | 356 | 402 | 462 |
| Max £ cost/year | 29 | 34 | 38 | 44 | 50 | 56 | 65 |
| Savings from a A+++ model £ | 0 | 45 | 9 | 15 | 21 | 27 | 36 |

Between an A rated and A+++ rated machine there is nearly £15/year saving. Whilst A+++ products are more expensive to buy there are A++ rated designs of the same price as A rated options. **You can get £10 of the savings at no extra capital cost!**

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Fridges and Freezers

It is difficult to compare one fridge or freezer to another as they are all different shapes and sizes. The Energy Rating is calculated by comparing the energy use with the internal volume.

Below are some examples.

There are few fridges and freezers rated that are A+++ and they tend to be more expensive. Nevertheless A+ are similar in price to A rated products and

gives a £10/year saving. For a fridge A++ product gives a £14 saving/per year compared to A. For a Fridge Freezer it saves around £20/year.

| Rating | A+++ | A++ | A+ | A | B | C |
|-----------------------|------|-----|-----|-----|-----|-----|
| Fridge kWh/year | 72 | 90 | 122 | 192 | 212 | 232 |
| cost £/year | 10 | 13 | 17 | 27 | 30 | 32 |
| Saving to A+++ rating | | 3 | 7 | 17 | 20 | 22 |

| Rating | A+++ | A++ | A+ | A | B | C |
|-------------------------------------|------|-----|-----|-----|-----|-----|
| Fridge freezer kWh/year | 206 | 270 | 339 | 408 | 612 | 816 |
| cost £/year | 29 | 38 | 47 | 57 | 86 | 114 |
| difference in cost to A+++ rating £ | | 9 | 18 | 28 | 57 | 85 |

If your fridge or freezers is nearly empty, the door is not shut or you keep opening and shutting the door, it will use more power.

The main cost of running fridges and freezers is the pump that circulates the coolant. If the system has leaked then the pump will have to run longer – eventually all the time – to keep the temperature down. This makes for a very expensive machine to run. It's unlikely to be economical to repair so it may be cheaper in the long run to replace with a high rated replacement.

Total Savings

So without additional capital expensive purchasing energy efficient white goods could save you £40/year in running costs. The savings will be greater if you are replacing older poorly rated appliances.