

CONSUMPTION FIGURES OF ELECTRIC APPLIANCES

The electricity consumption figures below are average readings for new appliances.

Average price 15 c/kWh (electrical energy, distribution, tax)		Number of times used	kWh / year	about €/ year
Dishwasher	kWh / usage 0,5 - 1,6	5 / week	130 - 416	20 - 62
Refrigeration appliances	kWh / 24 hrs			
-refrigerator	0,3 - 0,9		110 - 329	17 - 49
-deep-freeze refrigerator	0,6 - 1,9		219 - 694	33 - 104
-freezer	0,5 - 1,4		183 - 511	27 - 77
Cooker (kitchen range)	kWh / 24 hrs			
-2-person household	0,5	7 / week	182	27
-4-person household	1,0	7 / week	365	55
-heating the oven to 200 °C	0,5	3 / week	78	12
-keeping the oven at 200 °C for 1 hour	0,7	3 / week	109	16
Hood	kWh / 24 hrs 0,2	1 h / 24 hrs	73	11
Laundry	kWh / usage			
-washing machine	0,6 - 1,7	5 / week	156 - 442	23 - 66
-tumble dryer	1,9 - 5,5	5 / week	494 - 1430	74 - 215
-drying cabinet	4	5 / week	1040	156
Steam iron	kWh / hour 1	1 h / week	52	8
Towel drying radiator	kWh / 24 hrs 2,4		876	131
Sauna stove (1,5 h)	kWh / usage 8	2 / week	832	125
Vacuum cleaner	kWh / hour 1,5	1 h / week	78	12
Aquarium	kWh / 24 hrs 1		365	55
Humidifier	kWh / hour 0,06 - 0,32	5 h / 24 hrs	110 - 584	17 - 88
Air purifier	kWh / hour 0,08	5 h / 24 hrs	146	22

Average price 15 c/kWh (electrical energy, distribution, tax)		Number of times used	kWh / year	about €/ year
Television and external devices	kWh / hour			
-picture tube	0,10	5 h / 24 hrs	183	27
-32" - 37" LCD	0,05 - 0,17	5 h / 24 hrs	91 - 310	14 - 47
-40" - 42" LCD	0,07 - 0,20	5 h / 24 hrs	128 - 365	19 - 55
-42" - 50" Plasma	0,17 - 0,48	5 h / 24 hrs	310 - 876	47 - 131
-digibox			49	7
-recording digibox			100	15
-DVD player			19	3
Computer and external devices	kWh / hour			
-computer	0,14 - 0,50	8 h / 24 hrs	409 - 1460	61 - 219
-laptop	0,04	8 h / 24 hrs	117	18
-broadband modem			51	8
-multifunctional printer			32	5
-printer			19	3
Underfloor heating				
-3 m ²			540 - 1980	81 - 297
-6 m ²			1080 - 3960	162 - 594
-10 m ²			1800 - 6600	270 - 990
Heating appliances				
-500 W			1100	165
-2000 W			4400	660
Flat-specific mechanized ventilation				
-2 rooms and kitchen			1080	162
-4 rooms and kitchen			1800	270
Air conditioner (cooling)	kWh / 24 hrs			
	3,5 - 7	90 days / year	315 - 630	47 - 95
Car				
-block heater			200	30
-interior heater			400	60
-plug-in hybrid car: battery capacity 10-12 kWh: 1,50-1,80 €/charge				
-fully electric car: battery capacity 16-100 kWh: 2,40-15 €/charge				
	kWh / 10 min.			kWh / 10 min.
Coffee maker	0,1		Microwave oven	0,2
Electric kettle	0,2		Toaster	0,1

Calculating electricity consumption
1 kW = 1000 W
power (kW) x usage time (h) = consumption (kWh)

To establish usage cost, multiply consumption (kWh) with the electricity unit cost.

For example the power consumption of led-lamps (15 W) in eight hours is

 $0,015 \text{ kW} \times 8 \text{ h} = 0,12 \text{ kWh}$, which costs $0,12 \text{ kWh} \times 15 \text{ c} = 1,8 \text{ c}$.