



Your Guide to Electrical Use in Your Home

Definitions of terms used in this brochure

- BTU** British Thermal Unit—A common method of indicating the amount of heat energy removed by an air conditioner.
- CF** Cubic feet.
- kWh** KiloWatt hour—A unit of electrical energy equivalent to using one kiloWatt of electricity for one hour. A kiloWatt is a unit of power equal to 1000 Watts.
- W** Watt—A measurement of power and the rate of energy expended. One horsepower equals about 746 Watts.

Want to know how much electricity a specific appliance uses?

Use this formula:

Appliance wattage* x avg hours used per month ÷ 1000 = monthly kWh

*wattage can be found on most appliances

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Efficiency Vermont
your resource for energy savings.

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Trying to get control of your electric bills?

This brochure is a great first step. It will help you estimate how much electricity your appliances use. With this information, you'll be better able to identify the connection between your appliance use and the amount of your electric bills.

To reduce your electric bills, consider purchasing ENERGY STAR® appliances. By buying an energy-efficient ENERGY STAR model of an appliance, you can expect to use 10% to 50% less energy than what is shown on the energy usage chart inside.

When it's time to buy...

When you're in the market for a new appliance, lighting or electronics, look for the ENERGY STAR label. You'll find this label on

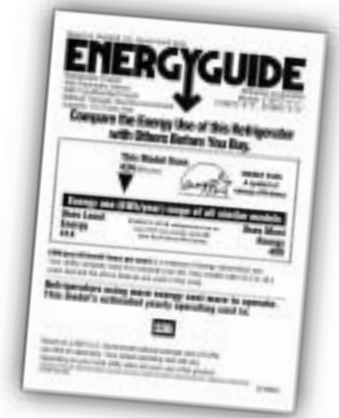


products that use less energy, cost less to operate, and perform as well as or better than standard products.

To learn more about ENERGY STAR qualified products, go to www.energystar.gov. On this site, ENERGY STAR qualified products are ranked according to their efficiency. Look for the best of the best to save the most in your home.

How to read the EnergyGuide label

While you'll only find the ENERGY STAR label on energy-efficient models, you'll see a yellow EnergyGuide on all new refrigerators, freezers, water heaters, clothes washers, dishwashers, and heating and cooling equipment. This label shows you how much an appliance is likely to cost to operate per year, based on average use and average energy prices. You can use this information to compare the energy use of models of similar type and size.



Want to know more about reducing your energy costs?

Contact Efficiency Vermont to find out about our free technical advice, learn about rebates for energy-efficient products, get energy-saving tips and more.

Visit www.encyvermont.com or call us toll-free at 1-888-921-5990.

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What this chart can show you

With this chart, you'll be able to see how quickly your energy bill can add up when you use appliances and lighting not manufactured with energy efficiency in mind. For example, take a look at lighting. If you have ten lamps in your house, each with a 100W incandescent bulb, you can expect to pay about \$160 to light your home each year. Energy-efficient bulbs will keep those lamps lit for around \$47. Plus, they last six to eight times longer.

About this chart

This chart is a guide and individual household costs may vary.

- The appliances listed are all electric appliances.
- *Hours in Use* is based on a typical four-person household. Your hours may vary; adjust accordingly.
- *Annual kWh* may vary considerably depending upon model, age, and use.
- *Annual Cost* is based upon the statewide average of 13 cents per kiloWatt hour (kWh).

To estimate the Annual Cost of operating an appliance: Multiply the *Annual kWh* by your utility's kWh rate or by the statewide average of .13; for example:

216	x	.13	=	\$28
<i>Annual kWh</i>		<i>kWh rate statewide average</i>		ANNUAL COST

ELECTRICAL USAGE CHART

for a typical four-person household

★ = ENERGY STAR availability

APPLIANCE	MONTHLY AVERAGE			ANNUAL AVERAGE	
	HOURS IN USE	kWh USED	MONTHS USED	ANNUAL kWh	ANNUAL COST
Air Conditioner—central	125	375	3	1125	\$146
Air Conditioner 8,000 BTU—room/window ★	100	90	3	270	\$ 35
Air Purifier	730	37	6	219	\$ 28
Aquarium with heater, light, filter	360	34	12	410	\$ 53
Clothes Dryer—electric (6 loads per week at 45 minutes)	20	75	12	900	\$117
Clothes Dryer—gas (6 loads per week at 45 minutes) ¹	23	9	12	110	\$ 14
Clothes Washer (7 loads per week) ² ★	30	9	12	108	\$ 14
Coffeemaker (1.5 pots per day)	30	5	12	54	\$ 7
Computer with monitor ★	60	8	12	90	\$ 12
Dehumidifier (moderately damp basement) ★	250	200	6	1200	\$156
Dishwasher—air dry (4 loads per week) ★	16	8	12	96	\$ 12
Dishwasher—heat dry (4 loads per week) ★	16	13	12	154	\$ 20
Electric Blanket (queen size)	240	8	6	50	\$ 7
Fan—box or floor stand	71	11	3	32	\$ 4
Fan—ceiling (without lights) ★	150	12	6	72	\$ 9
Freezer Chest, 18 CF, manual defrost, 20 years old	730	75	12	897	\$117
Freezer Chest, 18 CF, manual defrost, 10 years old	730	51	12	610	\$ 79
Freezer Chest, 17 CF, manual defrost, new ★	730	36	12	426	\$ 55
Freezer Upright, 17 CF, auto defrost, 20 years old	730	112	12	1342	\$174
Freezer Upright, 17 CF, auto defrost, 10 years old	730	90	12	1082	\$141
Freezer Upright, 17 CF, auto defrost, new ★	730	57	12	685	\$ 89
Freezer Upright, 17 CF, manual defrost, 20 years old	730	76	12	917	\$119
Freezer Upright, 17 CF, manual defrost, 10 years old	730	51	12	608	\$ 79
Freezer Upright, 17 CF, manual defrost, new ★	730	40	12	479	\$ 62
Furnace Fan	178	152	6	914	\$119
Hair Dryer (10 minutes per day)	5	6	12	75	\$ 10
Heat Tape—30' (thermostatically controlled)	365	77	6	460	\$ 60
Heater—electric baseboard: 10'	240	300	5	3000	\$390
Heater—engine block	180	135	4	540	\$ 70
Heater—portable (1500 watt, 8 hours per day)	240	360	6	2160	\$281
Heating System—hot water circulator (3 zones)	178	48	6	288	\$ 37
Hot Tub—indoor	70	196	12	2350	\$306

APPLIANCE	MONTHLY AVERAGE			ANNUAL AVERAGE	
	HOURS IN USE	kWh USED	MONTHS USED	ANNUAL kWh	ANNUAL COST
Hot Tub—outdoor	128	298	12	3577	\$465
Humidifier	230	29	6	173	\$ 22
Lighting—compact fluorescent bulb (100W equivalent) ★	100	3	12	32	\$ 4
Lighting—fluorescent light (two 40W tubes and ballast) ★	100	9	12	106	\$ 14
Lighting—incandescent (100W bulb) ★	100	10	12	120	\$ 16
Lighting—outdoor flood, compact fluorescent ★	90	2	12	29	\$ 4
Lighting—outdoor flood, incandescent ★	90	11	12	130	\$ 17
Microwave Oven (15 minutes per day) ★	8	11	12	137	\$ 18
Oven (2 hours per week)	8	21	12	255	\$ 33
Oxygen Concentrator	240	96	12	1152	\$150
Radio/Tape Player	153	2	12	18	\$ 2
Range—large cooking surface unit	8	19	12	230	\$ 30
Range—small cooking surface unit	8	10	12	125	\$ 16
Refrigerator—18 CF, 20 years old	730	98	12	1181	\$154
Refrigerator—18 CF, 10 years old	730	70	12	845	\$110
Refrigerator—18 CF, new ★	730	41	12	486	\$ 63
Refrigerator—22 CF, side-by-side, 20 years old	730	135	12	1619	\$210
Refrigerator—22 CF, side-by-side, 10 years old	730	96	12	1146	\$149
Refrigerator—22 CF, side-by-side, new ★	730	56	12	675	\$ 88
Satellite/Cable Receiver Box ★	730	18	12	219	\$ 28
Stereo	90	5	12	54	\$ 7
Swimming Pool Filter Pump	365	274	4	1095	\$142
Television—15" to 27" standard ★	150	18	12	216	\$ 28
Television—27" LCD flat screen ★	150	18	12	216	\$ 28
Television—42" Plasma ★	150	49	12	588	\$ 76
Toaster Oven (5 minutes per day)	3	4	12	43	\$ 6
Water Heater—50 gallon tank	83	386	12	4626	\$601
Waterbed Heater (queen size)	256	96	12	1152	\$150
Well Pump	17	12	12	140	\$ 18

¹ Cost does not include gas use.

² Cost does not include hot water.

High Energy Use Appliances—operating costs annually of \$100 or more—are listed in green. Average usage data compiled by Efficiency Vermont.