

COMPOSITE OF KILOWATTHOUR RATINGS FOR VARIOUS APPLIANCES

(PRE-ENERGY CRISIS ESTIMATES)

Name	Watts	Hrs/Mo.	KWHRS/Mo.
Air conditioner, central			820*
Air conditioner, window	1566	74	116*
Battery charger			1*
Blanket	190	80	15
Blanket	50-200		15
Blender	350	3	1
Bottle sterilizer	500		15
Bottle warmer	500	6	3
Broiler	1436	6	8.5
Clock	1-10		1-4*
Clothes drier	4600	20	92**
Clothes drier, electric heat	4856	18	86**
Clothes drier, gas heat	325	18	6**
Clothes washer			8.5*
Clothes washer, automatic	250	12	3*
Clothes washer, conventional	200	12	2**
Clothes washer, automatic	512	17.3	9*
Clothes washer, ringer	275	15	4**
Clippers	40-60		1/2
Coffee maker	800	15	12
Coffee maker, twice a day			8
Coffee percolator	300-600		3-10
Coffee pot	894	10	9
Cooling, attic fan	1/6-3/4HP		60-90**
Cooling, refrigeration	3/4-1 1/2 ton		200-500*
Corn popper	460-650		1
Curling iron	10-20		1/2
Dehumidifier	300-500		50*
Dishwasher	1200	30	36*
Dishwasher	1200	25	30*
Disposal	375	2	1*
Disposal	445	6	3*
Drill, electric, 1/2"	250	2	5
Electric baseboard heat	10,000	160	1600
Electrocuter, insect	5-250		1*
Electronic oven	3000-7000		100*
Fan, attic	370	65	24**
Fan, kitchen	250	30	8**
Fan, 8"-16"	35-210		4-10**
Food blender	200-300		1/2
Food warming tray	350	20	7
Footwarmer	50-100		1
Floor polisher	200-400		1
Freezer, food, 5-30 cu.ft.	300-800		30-125*
Freezer, ice cream	50-300		1/2
Freezer	350	90	32*
Freezer, 15 cu.ft.	440	330	145*
Freezer, 14 cu.ft.			140*
Freezer, frost free	440	180	57*
Fryer, cooker	1000-1500		5
Fryer, deep fat	1500	4	6
Frying pan	1196	12	15
Furnace, electric control	10-30		10*
Furnace, oil burner	100-300		25-40*
Furnace, blower	500-700		25-100**
Furnace, stoker	250-600		3-60**
Furnace, fan			32**
Garbage disposal equipment			1/4-1/3 HP
Griddle	450-1000		5
Grill	650-1300		5
Hair drier	200-1200		1/2-6*
Hair drier	400	5	2*
Heat lamp	125-250		2
Heater, aux.	1320	30	40
Heater, portable	680-2000		15-30
Heating pad	25-150		1
Heating pad	65	10	1
Heat lamp	250	10	3
Hi Fi Stereo			9*
Hot plate	500-1650		7-30
House heating	8000-15,000		1000-2500
Humidifier	500		5-15*
Iron	1100	12	13
Iron			12
Iron, 16 hrs/month			13
Ironer	1500	12	18
Knife sharpener	125		1/2*

Lawnmower	1000	8	8**
Lighting	5-300		10-40
Lights, 6 room house			
in winter			60
Light bulb, 75	75	120	9
Light bulb, 40	40	120	4.8
Mixer	125	6	1
Mixer, food	50-200		1
Movie projector	300-1000		
Oil burner	500	100	50*
Oil burner			50*
Oil burner, 1/8 HP	250	64	16*
Pasteurizer, 1/2 gal.	1500		10-40
Polisher	350	6	2
Post light, dusk to dawn			35
Power tools			3
Projector	500	4	2*
Pump, water	450	44	20**
Pump, well			20**
Radio			8
Radio, console	100-300		5-15*
Radio, table	40-100		5-10*
Range	8500-1600		100-150
Range, 4 person family			100
Record player	75-100		1-5
Record player, transistor	60	50	3*
Record player, tube	150	50	7.5*
Recorder, tape	100	10	1*
Refrigerator	200-300		25-30*
Refrigerator, conventional			83*
Refrigerator-freezer	200	150	30*
Refrigerator-freezer			
14 cu.ft.	326	290	95*
Refrigerator-freezer,			
frost free	360	500	180*
Roaster	1320	30	40
Rotisserie	1400	30	42*
Sauce pan	300-1400		2-10
Sewing machine	30-100		1/2-2
Sewing machine	100	10	1
Shaver	12		1/10
Skillet	1000-1350		5-20
Skil Saw	1000	6	6
Sunlamp	400	10	4
Sunlamp	279	5.4	1.5
Television	200-315		15-30*
TV, BW	200	120	24*
TV, BW	237	110	25*
TV, color	350	120	42*
TV, color			100*
Toaster	1150	4	5
Typewriter	30	15	5*
Vacuum cleaner	600	10	6
Vacuum cleaner, 1 hr/wk			4
Vaporizer	200-500		2.5
Waffle iron	550-1300		1-2
Washing machine, 12 hrs/mo			9*
Washer, automatic	300-700		3-8*
Washer, conventional	100-400		2-4*
Water heater	4474	89	400
Water heater	1200-7000		200-300
Water pump (shallow)	1/2HP		5-20**
Water pump (deep)	1/3-1 HP		10-60**

AT THE BARN

Name	Capacity HP or watts	Est. KWHR
Barn cleaner	2-5 HP	120/yr.*
Clipping	fractional	1/10 per hr.
Corn, ear crushing	1-5 HP	5 per ton*
Corn, ear shelling	1/2-2	1 per ton**
Electric fence	7-10 watts	7 per mo.**
Ensilage blowing	3-5	1/2 per ton
Feed grinding	1-7 1/2	1/2-1 1/2 per 100 lbs.**
Feed mixing	1/2-1	1 per ton**
Grain cleaning	1/2-1/2	1 per ton bu**
Grain drying	1-7 1/2	5-7 per ton**
Grain elevating	1/2-5	4 per 1000 bu**
Hay curing	3-7 1/2	60 per ton*
Hay hoisting	1/2-1	1/3 per ton**
Milking, portable	1/2-1	1 1/2 per cow/mo.**
Milking, pipeline	1/2-3	2 1/2 per cow/mo.**

Sheep shearing	fractional	1 1/2 per 100 sheep
Silo unloader	2-5 HP	4-8 per ton*
Silage conveyor	1-3 HP	1-4 per ton*
Stock tank heater	200-500 watts	varies widely
Yard lights	100-1500 watts	10 per mo.
Ventilation	1/6-1/3 HP	2-6 per day**
		per 20 cows

IN THE MILKHOUSE

Milk cooling	1/2-5 HP	1 per 100 lbs. milk*
Space heater	1000-3000	800 per year
Ventilating fan	fractional	10-25 per mo.*†
Water heater	1000-5000	1 per 4 gal

FOR POULTRY

Automatic feeder	1/2-1 HP	10-30 KWHR/mo**
Brooder	200-1000 watts	1/2-1 1/2 per chick per season
Burglar alarm	10-60 watts	2 per mo.*
Debeaker	200-500 watts	1 per 3 hrs.

Egg cleaning or washing	fractional HP	1 per 2000 eggs**
Egg cooling	1/6-1HP	1 1/2 per case*
Night lighting	40-60 watts	10 per mo. per 100 birds
Ventilating fan	50-300 watts	1-1 1/2 per day**
		per 1000 birds
Water warming	50-700 watts	varies widely

Brooding	100-300 watts	35 per brooding period/litter
Ventilating fan	50-300 watts	1/2-1 1/2 per day**
Water warming	50-1000 watts	30 per brooding period/litter

FARM SHOP

Air compressor	1/2-1 HP	1 per 3 hr.*
Arc welding	37 1/2 amp	100 per year*
Battery charging	600-750 watts	2 per battery charge*
Concrete mixing	1/2-2 HP	1 per cu. yd.**†
Drill press	1/6-1 HP	1/2 per hr.**
Fan, 10"	35-55 watts	1 per 20 hr.**
Grinding, emery wheel		

1/4-1/3 HP		1 per 3 hr.**†
Heater, portable	1000-3000 watts	10 per mo.
Heater, engine	100-300 watts	1 per 5 hr.
Lighting	50-250 watts	4 per mo.
Lathe, metal	1/2-1 HP	1 per 3 hr.
Lathe, wood	1/2-1 HP	1 per 3 hr.
Sawing, circular		
8"-10"	1/3-1/2 HP	1/2 per hr.
Sawing, jig	1/4-1/3 HP	1 per 3 hr.
Soldering, iron	60-500 watts	1 per 5 hr.

MISCELLANEOUS

Farm chore motors	1/2-5	1 per HP per hr.
Insect trap	25-40 watt	1/3 per night
Irrigating	1 HP up	1 per HP per hr.
Snow melting, sidewalk and steps, heating-cable imbedded in concrete		
	25 watts per sq. ft.	2.5 per 100 sq. ft. per hr.
Soil heating, hotbed		
	400 watts	1 per day per season
Wood sawing	1-5 HP	2 per cord

Symbol Explanation

*AC power required
 †Normally AC, but convertible to DC
 Notes: Lighting in this table is assumed to be incandescent—if fluorescent, the wattage bulbs consume the same power but deliver 3 times as much light—fluorescent bulbs also require AC, but can be converted to DC.

These figures can be cut by 50% with conservation of electricity.

- 1) Sources for this table represent a conglomerate of several separate tables taken from:
 a) Northern States Power Co., Mpls, Mn
 b) University of Minnesota, Agricultural Extension Service
 c) Seattle City Light, Seattle, Washington
 d) Energy Conservation Techniques, National Bureau of Standards
 e) Garden Way Labs
 f) Henry Clews
 g) Real Gas and Electric