

# Energy-XS

*Switch on the Sun and Wind*

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## Wattage Reckoner for common household and industrial appliances. All figures in Watts.

<b>Air Conditioner</b>		<b>Refrigerator/Freezer</b>	
Room	1000	Conventional 20 cubic feet (15hrs/day runtime typical)	540
Central	2000 - 5000	Conventional 16cf (15hrs/day)	475
<b>Air Conditioners rated in tons</b>		Sunfrost 16cf DC (7)	112
For Each Ton Assume	3517	Sunfrost 12cf DC (7)	70
E.g. 5 Ton AC Unit	17585	Conserv 10.5cf (8)	60
		Conserv 7.5 cf (8)	50
Blender	300	Satellite Dish	30
Blow Dryer	1000 - 1500	Sewing Machine	100
CB Radio	5	Shaver	15
CD Player	15 - 30	Stereo	10 - 300
Ceiling Fan	10 - 50	Table Fan	10 - 25
<b>Computers</b>		Toaster	800 - 1500
Laptop	20 - 75	<b>Tools</b>	
Desktop PC	80 - 200	Weed Eater	500
Printer	100	1/4" drill	250
Coffee Maker	800	1/2" drill	750
Clock Radio	1	1" drill	1000
Dishwasher	1200 - 1500	9" disc sander	1200
Dryer (Clothes)	4000	3" belt sander	1000
Electric Blanket	200	12" chain saw	1100
Electric Clock	1	14" band saw	1100
Frying Pan	1200	7 1/4" circular saw	900
Freezer (15 hrs/day runtime)	445	8 1/4" circular saw	1400
Sunfrost Freezer	112	Vacuum Cleaner Upright	200 - 700
Furnace Blower	300 - 1000	Vacuum Cleaner Hand	150
Garage Door Opener	350	VCR	40
Hot Plate	1200	Washing Machine	500
Iron	1000		

## Comparison of different Lighting Systems

<b>Incandescent</b>	<b>Fluorescent</b>	<b>LED</b>
100W	30W	5W
75W	20W	3.5W
60W	16W	3W
40W	11W	2W
Microwave		600 - 1500
Popcorn Popper		250
Radio Telephone		5
Transmitter		40 - 150

## Comparison of different cooking range efficiency

Efficiency and time required to boil 2 liters of water.

<b>Type</b>	<b>Efficiency</b>	<b>Time</b>	<b>Energy</b>
Induction stove	83 to 90%	4 minutes	745 kJ
Halogen stove	60%	9 minutes	1120 kJ
Electric Coil	55%	9 minutes	1220 kJ
Gas	40%	8 minutes	1700 kJ