

Appendix A: Identify Your Health Clinic Category

		A	B	C = AxB	D	E = CxD	F = E/1000
Category I Health Clinic Power and Energy Consumption		Quantity	Power (Watts)	Total Watts	On-Time (watt hours/day)	Wattage (hours/day)	kWh/day
Description of Devices	Vaccine Refrigerator/Freezer	1	60	60	6.0 - 12.0	360 - 720	0.36 - 0.72
	Small Refrigerator (non-medical use)	1	300	300	5.0	1,500	1.5
	Centrifuge	1	575	575	1.0 - 1.5	575 - 862.5	0.575 - 0.8625
	Hematology Mixer	1	28	28	1.0 - 1.5	28 - 42	0.028 - 0.042
	Microscope	1 - 2	15	15 - 30	3.0 - 4.0	45 - 120	0.045 - 0.12
	Lighting	2	10	20	2 - 10	40 - 200	0.040 - 0.2
	Incubator	1	400	400	2.0 - 12.0	800 - 4,800	0.8 - 4.8
	Water Bath	1	1,000	1,000	1.0 - 2.0	1,000 - 2,000	1 - 2
	Communication via VHF Radio	1					
	Stand-by		2	2	12.0	24	0.024
	Transmitting		30	30	1.0 - 2.0	30 - 60	0.030 - 0.060
	Total				2,430 - 2445		4,402 - 10,328.5

		A	B	C = AxB	D	E = CxD	F = E/1000
Category II Health Clinic Power and Energy Consumption		Quantity	Power (Watts)	Total Watts	On-Time (watt hours/day)	Wattage (hours/day)	kWh/day
Description of Devices	Vaccine Refrigerator/Freezer	2	60	120	6.0 - 12.0	720 - 1,440	0.72 - 1.44
	Small Refrigerator (non-medical use)	1	300	300	5.0	1,500	1.5
	Centrifuge	1	575	575	2.0	1,150	1.15
	Hematology Mixer	1	28	28	2.0	56	0.056
	Microscope	2	15	30	5.0	150	0.15
	Lighting	2 - 3	15	30 - 45	10.0	300 - 450	0.3 - 0.45
	Sterilizer Oven (Laboratory Autoclave)	1	1,564	1,564	1.0	1,564	1.564
	Incubator	2	400	800	2.0 - 12.0	1,600 - 9,600	1.6 - 9.6
	Water Bath	1	1,000	1,000	2.0	2,000	2.0
	Communication via VHF Radio	1					
	Stand-by		2	2	12.0	24	0.024
	Transmitting		30	30	2.0 - 3.0	60 - 90	0.060 - 0.09
	Desktop Computer	1 - 3					
	Power Save Mode		50	50 - 150	7.0	350 - 1,050	0.35 - 1.05
	In Use		150	150 - 450	5.0	750 - 2,250	0.750 - 2.25
	Printer	1	65	65	3.0	195	0.195
	Total				4,744 - 5,159		10,569 - 21,519

		A	B	C = AxB	D	E = CxD	F = E/1000
Category III Health Clinic Power and Energy Consumption		Quantity	Power (Watts)	Total Watts	On-Time (watt hours/day)	Wattage (hours/ day)	kWh/day
Description of Devices	Vaccine Refrigerator/Freezer	3	60	180	6.0 - 12.0	1,080 - 2,160	1.08 - 2.16
	Small Refrigerator (non-medical use)	1	300	300	5.0	1,500	1.5
	Centrifuge	1	575	575	3.0	1,725	1.725
	Hematology Mixer	1	28	28	3.0	84	0.084
	Microscope	3	15	45	6.0	270	0.27
	Lighting	3 - 4	15	45 - 60	10.0	450 - 600	0.45 - 0.6
	Incubator	3	400	1,200	2.0 - 12.0	2,400 - 14,400	2.4 - 14.4
	Water Bath	1	1,000	1,000	2.0	2,000	2.0
	Communication via VHF Radio	1					
	Stand-by		2	2	12.0	24	0.024
	Transmitting		30	30	3.0 - 4.0	90 - 120	0.090 - 0.120
	Desktop Computer	3 - 6					
	Power Save Mode		50	150 - 300	7.0	1,050 - 2,100	1.05 - 2.1
	In Use		150	450 - 900	5.0	2,250 - 4,500	2.25 - 4.5
	Printer	1	65	65	4.0	260	0.26
	Portable X-Ray Machine	1	3,000	3,000	1.0	3,000	3.0
	Total			8,634 - 9,249		17,597 - 34,157	17.6 - 34.2