

**Coke Beverage vending machine
electricity consumption
at Queen's per year**

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Item	Amount	Units
Single vending machine		
Electric Current	12	A
Voltage	115	V
Power	1380	W
Number of machines on campus (based on the Coke/Queen's Contract).	150	
Electrical consumption		
Per day per machine	33.12	kWh/day
Per year per machine (365 days)	12088.8	kWh/yr
Per year, full campus (150 machines)	1813320	kWh/yr
Cooling load calculation:		
Power to extract 1 kW of heat out	0.284	kW/kW
Number of cooling hours/year	800	h/yr
Total cooling power required	47030.4	kWh/yr
Total electricity consumption	1860350.4	kWh/yr
Price of electricity for Queen's	\$0.095	\$/kWh
Cost/yr	\$176,733	
Percentage of total electricity consumption (Based on 80,000 MWh of total electricity consumption at Queen's in 2002).	2.33%	