

### Energy Consumption of Laboratory Equipment

<b>Target</b>	<b>Watts</b>	<b>Typical Usage</b>	<b>Typical Daily Energy Consumption<sup>1</sup></b>
Fume Hoods: integration with HVAC, 'shut the sash' campaign		24 hours	approx. 115 kWh
Ultra-Low Freezers		24 hours	16-22 kWh
Gas Lasers	5 -55kW	3 – 24 hours	15 – 120 kWh
Cold Centrifuges, Floor Models	7.2 kW	plugged in all the time, used anywhere from 10 minutes – 45 minutes	0.72 – 5.4 kWh
Centrifuges, Table-top	1.4 kW	plugged in all the time, used in short spurts from 30 seconds to several minutes	0.14 kWh
Refrigerators, Dorm-Room Size	30 W	24 hours	0.8 kWh
Mercury Bulb/Metal Halide Lighting for Microscopes		1 -24 hours	0.1 – 6 kWh
Tissue Culture Hoods, UV light		10 – 20 hours	0.3 -0.6 kWh
Autoclaves	9 – 50 kW	5 – 12 hours	45+ kWh
PCR machines, qPCR	2.3 -5kW	1-3 hours	2.3-15 kWh