



GREEN LAB PURCHASING PRACTICES

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Links to the products described in this handout are available at: www.greencampus.harvard.edu/fas/labs.php

Disposable items



- Look for products with reduced or recycled content packaging
 - Pipet Tips
 - [VWR Revolution Next Generation Refill System](#);
 - [VWR Pak Rak System](#) to fill [VWR Tipstation](#) with tips
 - [Axygen Refill System through VWR](#);
 - Centrifuge tubes (ex. [VWR Superclear](#); [Axygen Conical Bottom](#))
 - PCR tubs (ex. [VWR PCR tubes](#))
 - Gloves (ex. [Kimtech Sterling Nitrile](#))

End of Life Take Back Programs



- Mettler-Toledo- Balances, pH Meters, Titrators
- Beckman Coulter- Centrifuges
- VWR/G-Storm- Thermal Cyclers
- Eppendorf- Life Sciences Equipment
- Seeding Labs: nina@seedinglabs.org

Chemicals



- MIT Green Chemical Alternatives Wizard:
 - Alternative chemicals
 - Alternative processes
 - Tips on sustainable solvent use
 - <http://web.mit.edu/environment/academic/purchasing.html>

Miscellaneous:



- Gelcompany: company that will regenerate used capillaries
<http://www.gelcompany.com/>
- Mercury free electrodes (ex. Denver)

Energy Efficient Equipment

- See reverse side

Questions? Contact Philip Kreycik, Philip_kreycik@harvard.edu, 4-9605

FAS Green Program

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Energy Efficient Equipment (asterisks denote products available through VWR)

Manufacturer	Model	Energy efficient feature
Bio-safety cabinets		
*Labconco	Purifier Logic Class II	Efficient motor; night smart mode idles blower when sash fully closed
Baker	SteriIGARD III 503a	Efficient motor; efficient lighting; efficient air delivery
Thermo	Forma 1400 Series Class II Forma 1300 Series Class II	Efficient motor; up to 50% less energy than standard induction BSCs; timed UV light with longer bulb life
Centrifuges		
*Beckman Coulter	Micro, Benchtop, and High-Performance Centrifuges	
*VWR	VWR 50	Variable speed
Eppendorf	5417R Refrigerated	Variable speed, "brushless" motor
Dri-baths		
Thermolyne	Model DB12215E	Anodized aluminum block provides maximum heat transfer
Thermolyne	Model DB17610	Aluminum modular blocks provide excellent heat transfer to tube contents
Freezers		
*Thermo Fischer	Revco Plus Ultra-Low Temperature Freezers	
Heat blocks		
Thermolyne	Model PS83001	Extended operation range and timer
Ice Machines		
Scotsman	Prodigy ice machines	
Incubators		
RPI	EchoTherm IC40	Auto-off, timer with alarm
Tritech	DigiThem 38L	Door-ajar alarm, less than 100W at maximum heating/cooling
Mixers and Shakers		
Fischer Scientific	Fischer Auto Mixer 14-505-21Q	
Thermolyne	Vortex Mixer M37615	Variable speed control
Thermolyne	Benchtop Water Bath Shaker SHKE7000	Optional covers to prevent heat loss and minimize evaporation
Ovens		
Despatch Industries	LAC	Forced convection heating
Rickly	Convection Oven	Auto shut-off; high density mineral wool insulation
Vacuum pumps		
PIAB	COAX	Finely engineered air foils; optional pneumatic control energy saving system
BrandTech	RZ6	Dual-stage rotary vane pump (energy efficient motor; low level of waste heat)

