



## Purifier® Axiom™ Class II Biosafety Cabinets Environmental Information

Purifier Axiom Biosafety Cabinets can be operated in either Type A or Type B mode. They are energy-efficient, producing lower energy usage rates and operational costs than the industry average in both modes.

### ENERGY SAVINGS IN A-MODE:

The Axiom in A-mode operates on less wattage than the Logic+ and the industry average, and matches the industry leader in energy conservation/consumption.

	Purifier® Axiom™		Purifier® Logic™+		Competitor A	Competitor B	Competitor C
Recycled Material Calculations							
Pre-Consumer Recycled Content	7.5%		8.5%				
Post-Consumer Recycled Content	45.5%		53.1%				
Total Recycled Content	49.2%		57.3%				
Recyclable Content	95.9%		94.9%				
Motor Type/Technology	DC ECM		DC ECM		AC PSC	AC-3Ø	DC
8hrs/day (2,080 hrs/year) *							
Energy Used (kWh / yr)	416		603		1206	861	416
Annual Cost - Commercial	\$41		\$60		\$119	\$85	\$41
Annual Cost - Industrial	\$28		\$41		\$81	\$58	\$28
24hrs/day (8,736 hrs/year)				†			
Energy Used (kWh / yr)	1747	554	2533	803	5067	3617	1747
Annual Cost - Commercial	\$173	\$55	\$250	\$79	\$501	\$357	\$173
Annual Cost - Industrial	\$118	\$37	\$170	\$54	\$341	\$243	\$118

## ENERGY SAVINGS IN B-MODE:

Energy savings in ducted mode is achieved through reducing exhaust volume (CFM). The Axiom in B-mode consumes 50% less volume (for savings of over 50%) than a Type B2 cabinet. Using the Axiom lowers energy consumption and planning costs as it reduces the planned and installed tonnage of air conditioning and heating.

15 Year Costs	Type A2	Type A2 with Canopy	Type B1	Type B2	NEW Type C1 in A mode	NEW Type C1 in B mode
<b>Upfront installation</b>	\$300	\$400	\$5,150	\$5,150	\$300	\$400
<b>Lifetime maintenance</b>	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
<b>Lifetime operation</b>	N/A	\$40,500	\$40,500	\$87,000	N/A	\$42,000
<b>ESTIMATED TOTAL COST</b>	\$4,800	\$45,400	\$50,150	\$96,650	\$4,800	\$46,900

*Upfront installation costs include labor, ductwork, blower (where applicable) and electrical hook up. Lifetime maintenance costs include HEPA filters and annual certification. Lifetime operation cost is cost of exhausted air of \$8/year/CFM for 15 years.*

*\*Type C1 designation is pending NSF definition.*

Purifier Axiom Biosafety Cabinets contain recycled content (“Pre-Consumer Recycled”) and content that can be recycled once the cabinet has ceased to be useful/operable (“Post-Consumer Recycled”). The specific numbers are shown by width and type in the following charts. All SKUs at each of the following sizes will be comparable. The packaging is also either recyclable (cardboard) or reusable (wooden skid/pallet).

#### 4' Axiom

Project Recycled Content						
	Total Weight	Post-Consumer Recycled Weight (lbs)	Pre-Consumer Recycled Weight (lbs)	Post-Consumer Recycled Content (%)	Pre-Consumer Recycled Content (%)	Total Recycled Content (%)
Biological Safety Cabinets	637	290	47	45.5%	7.5%	49.2%
Base Stands	63	32	7	50.0%	10.4%	55.1%
Total Project	700	321	54	45.9%	7.7%	49.8%

#### 6' Axiom

Project Recycled Content						
	Total Weight	Post-Consumer Recycled Weight (lbs)	Pre-Consumer Recycled Weight (lbs)	Post-Consumer Recycled Content (%)	Pre-Consumer Recycled Content (%)	Total Recycled Content (%)
Biological Safety Cabinets	900	390	64	43.3%	7.1%	46.9%
Base Stands	71	35	7	49.9%	10.4%	55.1%
Total Project	971	425	72	43.8%	7.4%	47.5%

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