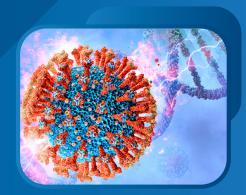




Labculture® G4

Class II Type A2 Biological Safety Cabinets

The Most Certified Energy-efficient, Safe, and Ergonomic Biosafety Cabinet in the World





LABCULTURE® G4 (LA2 G4) CLASS II TYPE A2 BIOSAFETY



USB Port

- Export Data Logging
- Software Update
- Wired data transaction to BMS



Airflow Sensor

ESCO.

CIDE N 2 D 40 D

- Monitors real-time airflow for safety
- Alert the user if airflow is insufficient

Zero Volt Relay Contact

- Free Relay Contact
- Exhaust Free Relay Contact



Centurion 7" Capacitive Touchscreen Controller

- Displays all safety information on one large screen
- Shows cabinet parameters with intuitive 3D illustration
- Easy to use menu, similar to Smart Phone Apps
- Large buttons, easy to operate when wearing gloves
- Self-guidance to users to deal with specific situations
- Centered and angled down for easy reach and viewing
- Optional: 21 CFR Part 11 Compliance
- Wired data transaction to BMS



Single Piece Wall ———

- Easy to reach service fixtures and electrical outlets on sidewalls
- Large radius corners for easy cleaning



User-friendly Work Tray

- Largest useable area in the market
- Recessed to contain spillage
- Sloped perimeter for easy cleaning
- Large, easy to clean tray handle
- Work tray holder for drain pan cleaning





Raised Arm Rest

- Prevent grille blocking
- Comfortable working posture
- Durable stainless steel construction



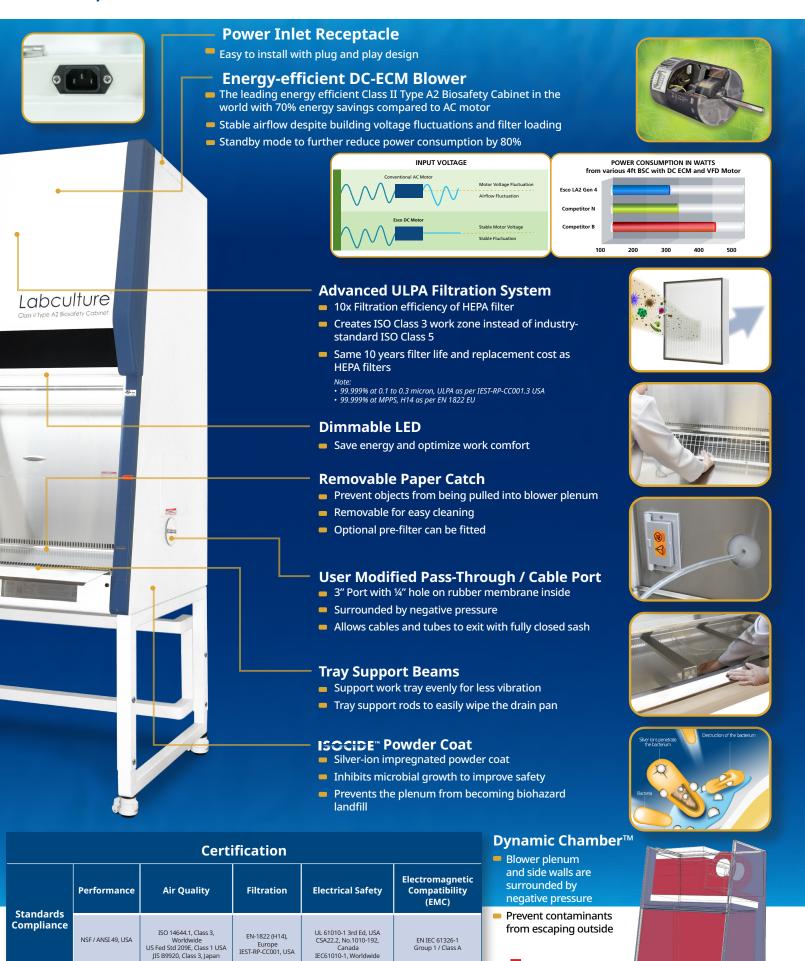


Ergonomic Work Zone

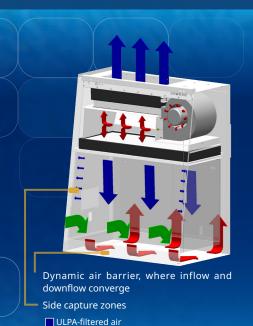
- = 10° angle to optimize user comfort, reduce glare, and maximize reach into the work area
- Brightly illuminated with ≥ 1226 lux (≥ 114 ft-cd)
- Industry-leading dimmable LED for optimum work comfort
- Airtight seal port for cable/tube exit protected by a negative pressure side wall



CABINET, FEATURING ADVANCED TOUCHSCREEN CONTROLLER



Positive Pressure Negative Pressure



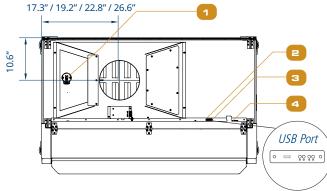
Cabinet Filtration System

- Ambient air is pulled through front grille to create inflow, without going into the work surface. Inflow is joined by half of the downflow, to create front air curtain that is fine-tuned to create a large performance envelope. The combined air stream travels through the back air column towards the blower.
- Approximately ½ of the air in the common plenum is exhausted through the ULPA filter to the room. The remaining ¾ of the air is passed through the downflow ULPA filter and into the work area as a vertical laminar flow air to create ISO Class 3 work surface and prevents cross contamination.
- Near the work surface, the downflow splits. About half goes to the front grille, and half goes to the rear grille. A small portion enters the the side capture zones to prevent dead air corners (small blue arrows).
- The design was optimized to give large performance envelope, that provides operator and product protection at wide Inflow and Downflow variation from the Nominal point.

Engineering Drawing

Room air / Inflow air

Unfiltered / potentially contaminated air

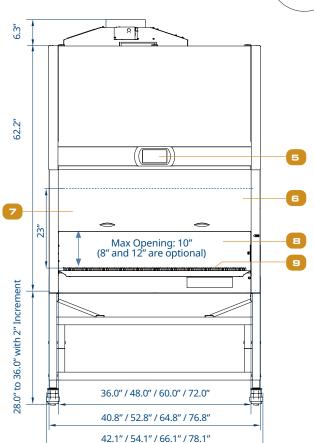


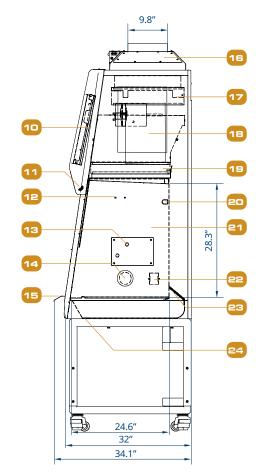
- 1. Airflow sensor
- 2. USB Port
- 3. Zero Volt Relay Contact
- 4. Power Inlet (1 for 3-4 ft, 2 for 5-6 ft)

Product Protection

- 5. Centurion Touchscreen Controller
- 6. 10° Angled Sash Window
- 7. Maximum Sash Opening
- 8. Single-piece Stainless Steel Back Wall
- 9. Single tray for S-series
- 10. Electrical Panel
- 11. Dimmable LED Lamp
- 12. IV Bar Retrofit Kit Provision

- 13. Service Fixture-2U
- 14. Cable Port (NSF Approved)
- 15. Stainless Steel Arm Rest
- 16. Exhaust Collar (optional)
- 17. Exhaust ULPA (H14) Filter
- 18. DC-ECM Blower
- 19. Downflow ULPA (H14) Filter
- 20. UV Lamp Provision
- 21. Stainless steel side walls for S-series
- 22. Duplex GFCI Outlets (1L/1R), total max 5A
- 23. Paper catch
- 24. Drain Valve Provision





TECHNICAL SPECIFICATIONS							
Labculture® Class II	Stainless Steel 110-130 VAC, Side Walls 50/60 Hz	LA2-3S9 G4 10" 2011683	LA2-4S9 G4 10" 2011685	LA2-5S9 G4 10" 2011687	LA2-6S9 G4 10" 2011689		
Nominal Size		3'	4'	5'	6'		
External Dimensions (W x D x H)	Without Arm Rest	41" x 32" x 62"	53" x 32" x 62"	65" x 32" x 62"	77" x 32" x 62"		
	With Arm Rest	41" x 34" x 62"	53" x 34" x 62"	65" x 34" x 62"	77" 34" x 62"		
Internal Dimensions (W x D x H)		36" x 25" x 28.3"	48" x 25" x 28.3"	60" x 25" x 28.3"	72" x 25" x 28.3"		
Usable Work Area (W x D)		35.5" x 20.5"	47.5" x 20.5"	59.5" x 20.5"	71.5" x 20.5"		
Sash opening		10" sash opening (8" and 12" are optional)					
Maximum Sash Opening		23"					
Average Airflow Velocity	Inflow	105 fpm					
	Downflow	65 fpm	60 fpm	65 fpm	60 fpm		
Airflow Volume	Inflow	263 cfm	350 cfm	438 cfm	525 cfm		
	Downflow	374 cfm	499 cfm	624 cfm	748 cfm		
	Exhaust	263 cfm	350 cfm	438 cfm	525 cfm		
Additional Static Pressure for Optional Thimble Exhaust Collar (Measured 360mm or 14" from the top of exhaust collar)		0.080 - 0.12 in.w.g	0.14 - 0.18 in.w.g	0.1 - 0.14 in.w.g	0.22 - 0.26 in.w.g		
Required Exhaust with Optional Thimble Exhaust Collar		283 cfm	375 cfm	453 cfm	556 cfm		
ULPA Filter Typical Efficiency		>99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA >99.999% at MPPS, H14 as per EN 1822 EU					
Sound Emission (dBA)*	NSF / ANSI 49	59	62	63	64		
LED Lamp Light Intensity		≥ 1226 lux (≥ 114 ft-cd)					
	Nominal power (Watt)	203	205	380	421		
Electrical Rating (9)**	Heat Load (BTU/hr)	693	699	1297	1471		
110-130 VAC 50/60Hz	Full Load Amps exclude 5A EO	15 A, 1 NEMA 5-15, 10ft cable for BSC and Outlets		15 A, 1 NEMA 5-15, 10ft cable, for BSC			
	Optional Outlets FLA			5 A, 1 NEMA 5-15, 10ft cable, for Outlets			
Cabinet Construction	Main body	Electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder-coated finish, 1.5 mm (0.06") / 16 gauge thick					
	Work Zone	Stainless steel type 304 with no.4 finish, 1.5 mm (0.06") / 16 gauge thick					
	Sash Window		6 mm UV-absorbing Tempered Glass				
Net Weight		536 lbs	633 lbs	840 lbs	882 lbs		
Shipping Weight		644 lbs	772 lbs	968 lbs	1116 lbs		
Shipping Dimensions, Maximum (W x D x H)		46.7" x 37.4" x 83.5"	58.7" x 37.4" x 83.5"	76.8" x 37.4" x 83.5"	86.6" x 37.4" x 83.5"		
Shipping Volume		81 cu.ft	106 cu.ft	138 cu.ft	155 cu.ft		

Disclaimer: Technical Specifications may be subjected to further changes without prior notice.

*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values.

**Electrical power consumption is a measurement of new unit with clean filter operated within nominal setpoint. Result per unit may vary.

Options and Accessories									
Exhaust Collar		ECO-F-LA2/AC2-3 G4 5171097	ECO-F-LA2/AC2-4 G4 5171098	ECO-F-LA2/AC2-5 G4 5171099	ECO-F-LA2/AC2-6 G4 5171100				
Exhaust Damper		DAMPER-10 5170104							
UV Lamp		UV-15A-L UV-30A-L 5170255							
IV Bar		IV-955 5170499	IV-1215 5170231	IV-1520 5170500	IV-1870 5170501				
Electrical Outlet	GFCI	EO-GFCI 5170071							
Service Fixtures	US SF-Universal-20 mm	SF-2U22 5170504							
	Copper Piping for SF	CU-Pipe 5170026							
Support Stand	Telescoping Stand with Caster Wheels	STA-3A0 5131340	STA-4A0 5131341	STA-5A0 5131427	STA-6A0 5131389				
	Motorized Stand Height with Levelling Feet	SPML-3A2 5131503	SPML-4A2 5131504	SPML-5A2 5131505	SPML-6A2 5131506				
	Motorized Stand Height with Levelling Feet and Seismic Bracket		SPML-4A2-SB 5131403	SPML-5A2-SB 5131443	SPML-6A2-SB 5131404				
	Motorized Stand Height with Caster Wheels	SPMC-3A2 5130093	SPMC-4A2 5130047	SPMC-5A2 5130100	SPMC-6A2 5131141				
	Motorized Stand with Castors Cradle		SLC-4A2 G4 with 20" piston 5131441	SLC-5A2 G4 with 20" piston 5131447	SLC-6A2 G4 with 20" piston 5131440				
Pipette Storage Shelf		5260327							
Arm Rest Padding		MEWREST 5170127							
Foot Rest		FT-REST 5170492							
Laboratory Chair		ME-LD-AR360 1150006							
IQOQ Protocol		9010179							











ECO-F-LA2/AC2-4 G4



UV LAMP

SPML

IV Bar with 6 Hooks



SF-2U











STA

MEWREST











FT-REST Seismic Bracket

ME-LD-AR360

EO-GFCI

SLC

IQOQ



Life Science Tools









Chemical Research







cGMP and USP Isolators



Medical (IVF)









Bioprocessing



cGMP and Filling Line Isolators



Pharmaceutical



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LIFESCIENCES GROUP

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