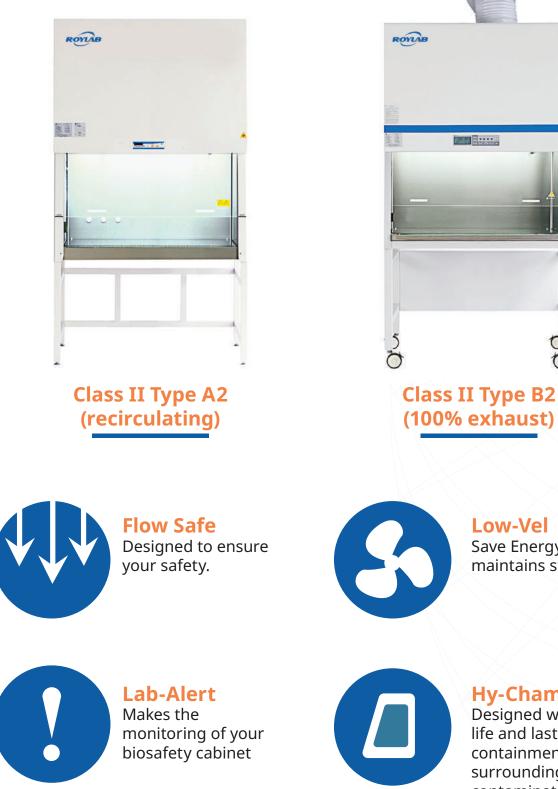




Roylab Biosafety Cabinets set the standard in quality, design, and innovation that comes from a heritage of over 25 years experience. At Roylab, we know how important it is to offer a high level of protection to operator, sample and environment with advanced technology. With an extensive track record of safety, reliability and performance, our Biosafety cabinets make ideal investments for a wide range of applications including work with infectious agents that require Biosafety Level 1, 2 or 3 containment.





Low-Vel Save Energy, maintains sterility.





Hy-Chamber

Designed with long life and lasting containment surrounding contaminated areas.





We are more professional

- Professional R&D team with more than ten years of R&D experience
- R&D, production and installation are all based on the concept of "safety", so you can use it with confidence
- The core components are sourced from well-known brands

LCD Screen

The 4.3-inch LCD screen dynamically displays more data information in real time, and the display content is clear, which is convenient for observing equipment conditions.



Tempered Explosion - Proof Glass

The front window is made of tempered explosion-proof glass with a thickness of 6mm, providing better protection.

Tilt Angle Design

Adopt 8° inclination angle design, more ergonomic, improve the convenience of use.



Glass Door Lock Device

The work area can be locked through glass to assist the overall management of laboratory equipment.

Three-sided One-Piece Stainless Steel

The inner wall adopts a three-sided integrated design, the large arc and rounded comers are easy to clean, and the entire operating area and liquid collection tank are made of 304 stainless steel.





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- R&D, production and installation are all based on the concept of "safety", so you can use it with confidence
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Interlock System

With glass door and UV lamp/fluorescent lamp/blower linkage function.



Reserved Valve Interface

One valve channel interface is reserved on the left and right, and air valve, water valve and vacuum valve are optional.

Single Blower Structure

Single blower structure design ensures low failure rate, stable flow rate ratio of descending airflow and inflow airflow, and adopts well-known brand blower which guarantees low noise, energy saving and environmental protection.



Ultra High Efficiency

The ultra-efficient air filter (ULPA) made of well-known brand borosilicate glass fiber material has the filtration efficiency of 99.999% for 0.12um particles.

Counterweight Glass Door Design

The counterweight glass door adopts the sliding rail method, which can be easily opened and closed with one hand, and the operation is convenient.



General Specifications, Roylab LC Biological Safety Cabinets (Class II Type A2)

Model	RLBSCA2-900LC	RLBSCA2-1200LC	RLBSCA2-1500LC	RLBSCA2-1800L		
Nominal Size	0.9 meters(3')	1.2 meters (4')	1.5 meters (5')	1.8 meters(6')		
External Dimensions with Base Stand (W×D×H)	1040×790×2130mm 40.9"×31.1"×83.9"	1340×790×2130mm 52.8"×31.1 "×83.9"	1640×790×2130mm 64.60"×31.1 "×83.9"	1940×790×2130mm 76.4"×31.1 "×83.9"		
Internal Work Area, Dimensions (W×D×H)	950×575×625mm 37.4"×22.6"×24.6"	1250×575×625mm 49.2″×22.6″×24.6″	1550×575×625mm 61.0"×22.6"×24.6"	1850×575×625mm 72.8″×22.6″×24.6″		
Internal Work Area, Space	0.54m²(5.8 sq.ft)	0.72m²(7.8 sq.ft)	0.9m²(9.7 sq.ft)	1.08m²(11.6 sq.ft)		
Average Airflow Velocity *						
Inflow	0.53±0.025m/s (104.3±4.92fpm)					
Downflow	0.35±0.025m/s (68.9±4.92fpm)					
Airflow Volume						
Inflow	363m ³ (213cfm)	477m ³ (281cfm)	592m ³ (348cfm)	706m³(416cfm)		
Downflow	718m ³ (422cfm)	945m³(556cfm)	1172 m³(689cfm)	1280m³(753cfm)		
Exhaust	363m³(213cfm)	477m³(281cfm)	591m ³ (348cfm)	705m³(415 cfm)		
ULPA Filter Typical Efficiency						
Downflow	Filt	ers provide 99.9995% typical efficie	ncy for particle size of 0.1 to 0.2 mic	rons		
Exhaust	Filt	Filters provide 99.9995% typical efficiency for particle size of 0.1 to 0.2 microns				
Biosafety Protection Test						
Personnel Protection Test	KI-Discus containment and microbiological testing is performed					
Product Protection Test 1~8×10 ⁶ (three times in succession)	≤5CFU	≤5CFU	≤5CFU	≤5CFU		
Cross-contamination fest 1~8×10 ⁶ (three times in succession)	≤2CFU	≤2CFU	≤2CFU	≤2CFU		
Sound Emission (Typical)						
NSF/ANSI 49	<60dBA	<62dBA	<60dBA	<65dBA		
EN 12469	<57&BA	<59dBA	<60dBA	<62dBA		
Fluorescent Light Intensity		≥650Lux (≥60	0 foot candles)			
Excellent light distribution	Yes	Yes	Yes	Yes		
RMS	≤5um	≤5um	≤5um	≤5um		
Cabinet Construction						
Main Body		1.2mm(0.05") steel with whit	e oven-baked epoxy-polyester			
Work Zone		1.5mm(0.06') stair	nless steel, type 304			
Side Walls		1.5mm(0.06') stainless steel, type 304				
Electrical Sliding Windows Option	HFsafe-900LA	HFsafe-1200LA	N/A	N/A		
Window Material	Hardened/laminated safey glass					
Electrical						
Cabinet Full Load Amp(FLA)	2A	2A	4A	4A		
Fuses	10A	10A	10A	10A		
Cabinet Nominal Power	361W	452W	813W	850W		
Optional Outlets FLA	5A	5A	5A	5A		
Total Cabinet FLA	7A	7A	9A	9A		
Power Supply*						
220V/50HZ	Yes	Yes	Yes	Yes		
220V/60HZ	Yes	N/A	Yes	Yes		
110V/60Hz	Yes	Yes	N/A	N/A		
Net Weight						
Manual Type	120kg(264Ibs)	225kg(496lbs)	280kg(617lbs)	320kg(705lbs)		
Shipping Weight	.20.(204103)		2003(017103)	520kg(705185)		
Manual Type	175kg(286lbc)	295kg(650lbs)	350kq(772Ibs)	390kg(860lbs)		
Manual Type Shipping Dimensions Maximum(W×D×H)	175kg(386lbs) 1125×945×1717mm 46.3"×37.2"×67.3"	295kg(650lbs) 1425×945×1717mm 56.1"×37.2"×67 31	350kq(772105) 1725×945×1717mm 67.9"×37.2"×67.3"	2026×945×1717mm 79.8"×37.2"×67.3"		

* Please contact us for more optional power supply information

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General Specifications, Roylab BSCB2 Biological Safety Cabinets (Class II Type B2)

Model	RLBSCB2-900LCB2	RLBSCB2-1200LCB2	RLBSCB2-1500LCB2	RLBSCB2-1800LCB		
Nominal Size	0.9 meters(3')	1.2 meters(4')	1.5 meters(5')	1.8 meters(6')		
External Dimensions with Base Stand (W×D×H)	1040×790×2200mm 40.9"×31.1"×86.6"	1340×790×2200mm 52.8"×31.1"×86.6"	1640×790×2200mm 64.6"×31.1"×86.6"	1940×790×2200mm 76.4"×31.1"×86.6"		
Internal Work Area, Dimensions (W×D×H)	950×575×625mm 37 4″×22.6″×24.6″	1250×575×625mm 49. 2″×22 6″×24 6″	1550×575×625mm 61.0"×22.6"×24.6"	1850×575×625mm 72.8"×22 6"×24 6"		
Internal Work Area, Space	0.54m²(5.8 sq.ft)	0.72m²(7.8 sq.ft)	0.9m²(9.7 sq.ft)	1.06m²(11.4 sq.ft)		
Average Airflow Velocity *						
Inflow	0.53±0.025m/s (104.3±4.92fpm)					
Downflow	0.35±0.025m/s (68.9±4.92fpm)					
Airflow Volume						
Downflow	605m³(356cfm)	796m³(468cfm)	987m³(581cfm)	1178m³(693 cfm)		
Exhaust	967m ³ (569cfm)	1273m ³ (749cfm)	1579m³(929cfm)	1884m³(1108cfm)		
Filter Typical Efficiency						
Downflow	ULPA filters provide 99.9995% typical efficiency for particle size of 0.1 to 0.2 microns					
Exhaust	H	HEPA filters provide 99.97% typical efficiency for particle size of 0.3 microns				
Biosafety Protection Test						
Personnel Protection Test		KI-Discus containment and mice	robiological testing is performed			
Product Protection Test 1~8×10 ⁶ (three times in succession)	≤5CFU	≤5CFU	≤5CFU	≤5CFU		
Cross-contamination Test 1~8×10 ⁶ (three times in succession)	≤2CFU	≤2CFU	≤2CFU	≤2CFU		
Sound Emission (Typical)		≥650Lux (≥60 foot candles)				
NSF/ANSI 49	<65dBA	<65dBA	<65dBA	565dBA		
EN 12469	<57dBA	<59dBA	<60dBA	<62dBA		
Fluorescent Light Intensity						
Excellent light distribution	Yes	Yes	Yes	Yes		
RMS	≤5um	≤5um	≤5um	≤5um		
Cabinet Construction						
Main Body		1.2mm(0.05") steel with white oven-baked epoxy-polyester				
Work Zone		1.5mm(0.06") stainless steel, type 304				
Side Walls	1.5mm(0.06") stainless steel, type 304					
Electrical Sliding Windows Option	N/A	N/A	N/A	N/A		
Window Material	Hardened/laminated safey glass					
Electrical						
Cabinet Full Load Amp(FLA)	4A	4A	5A	5A		
Fuses	10A	10A	10A	10A		
Cabinet Nominal Power	850W	855W	1200W	1200W		
Optional Outlets FLA	5A	5A	5A	5A		
Total Cabinet FLA	9A	9A	10A	10A		
Power Supply*						
220V/50HZ	Yes	Yes	Yes	Yes		
220V/60HZ	Yes	Yes	Yes	Yes		
Net Weight						
Manual Type	210kg(463lbs)	250kg(551lbs)	295kg(650lbs)	340kg(750lbs)		
Shipping Weight						
Manual Type	260kg(573Ibs)	310kg(683Ibs)	365kg(804Ibs)	420kg(926Ibs)		
Shipping Dimensions Maximum(W×D×H)	1125×945×1710mm 44.3"×37.2"×67.3"	1425×945×1710mm 56.1"×37.2"×67.3"	1725×945×1710mm 67.9″×37.2″×67.3″	2026×945×1710mm 79.8"×37.2"×67.3"		
Shipping Volume, Maximum	1.81m³(64cu.ft.)	2 30m³(81cu.ft.)	2.79m³(99cu.ft.)	3.27m³(115cu.ft.)		

* Please contact us for more optional power supply information

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