

2. Technical parameters

Model		BSC-IIA2-YF1100	BSC-IIA2-YF1400	BSC-IIA2-YF1500	BSC-IIA2-YF1800
External dimensions (width × depth × height) (mm)		1050×780×2130	1400×780×2130	1500×780×2130	1800×780×2130
Workspace dimensions (width × depth × height) (mm)		950×626×600	1300×626×600	1400×626×600	1700×626×600
Height of front window operating opening		safety height 200mm			
Maximum opening height		400mm			
bench height		800mm			
control system	display	7-inch LCD touch screen			
	report to the police	Abnormal airflow speed, ULPA filter malfunction, UV lamp failure, unsafe front window height			
airflow system	flow pattern	70%inner loop、30%excretion			
	downstream velocity	0.35m/s±0.025m/s			
	inlet flow velocity	0.52m/s±0.025m/s			
	air input (m ³ /h)	355	486	524	636
	downflow (m ³ /h)	718	983	1058	1285
	gas displacement (m ³ /h)	355	524	524	636
Air filtration system	ULPA filter	2 ULPA filters with filtration efficiency ≥99.9995% for particles 0.1-0.3μm, equipped with filter lifespan indicators			
	Cleanliness grade	10 级 (ISO14644.1: 4 级)			
	Exhaust filter specifications (mm) / quantity	455×375×69 ×1 piece	805×375×69 ×1 piece	905×375×69 ×1 piece	1205×375×69 ×1 piece
	Supply air filter specifications (mm) / quantity	896×506×69 ×1 piece	1246×506×69 ×1 piece	1346×506×69 ×1 piece	1646×506×69 ×1 piece
cabinet structure	main body	Electro-galvanized steel with antibacterial powder coating			
	Workbench	304 Stainless Steel			
	front window	Electrically laminated double-layer tempered glass with ≥5mm thickness, UV protection			
electrical system, wiring	UV lamp	20W×1	30W×1	30W×1	40W×1
		Emit a wavelength of 253.7 nm to achieve optimal sterilization efficacy, UV lamp lifespan indicator, UV lamp timer			
	LED lamp	16W×2	20W×2	20W×2	20W×2
	maximum power dissipation	750W(Excluding socket load power consumption)			
source	AC 220V , 50/60Hz				
enclosure leak-proof		Increase the pressure to 500Pa and maintain it for 30 minutes, ensuring the pressure does not drop below 450 Pa.			
Personnel Protection		The colony count of the impact sampler is ≤10 CFU/operation; the colony count of the slit sampler is ≤5 CFU/operation.			
product protection		Number of microbial colonies ≤5CFU per test			
cross-contamination protection		Microbial colony count ≤2CFU per test			
electrical	dielectric	Basic insulation: 1390V, enhanced insulation: 2224V			

safety	strength				
	earthing resistance	$\leq 0.2\Omega$			
illuminance		$\geq 1000\text{Lux}$			
noise		$\leq 62\text{dB (A)}$			
vibrate		$\leq 2\mu\text{m}$			
standard fitting		1. Base; 2. Wind speed sensor; 3. ULPA filter; 4. LCD touchscreen; 5. LED lights $\times 2$; 6. UV lamp $\times 1$; 7. Waterproof sockets $\times 2$; 8. Electric front window; 9. Universal casters; 10. Foot pedal switch; 11. Electric air valve control; 12. RS485 communication interface			
Optional accessories		1. Adjustable LED brightness; 2. Air cock; 3. Water cock; 4. Crossbar with hook; 5. Manual adjustable base			
Net weight (kg)/Gross weight (kg)		224/274	263/313	290/380	370/495
Transport dimensions (width \times depth \times height) (mm)		1200 \times 1120 \times 1710	1550 \times 1120 \times 1710	1650 \times 1120 \times 1710	1950 \times 1120 \times 1710
transportable volume (m ³)		2.3	3	3.2	3.7

