

BioSafety Cabinets

Class II Type A2 & B2



Biosafety Cabinets

A2 & B2 Type



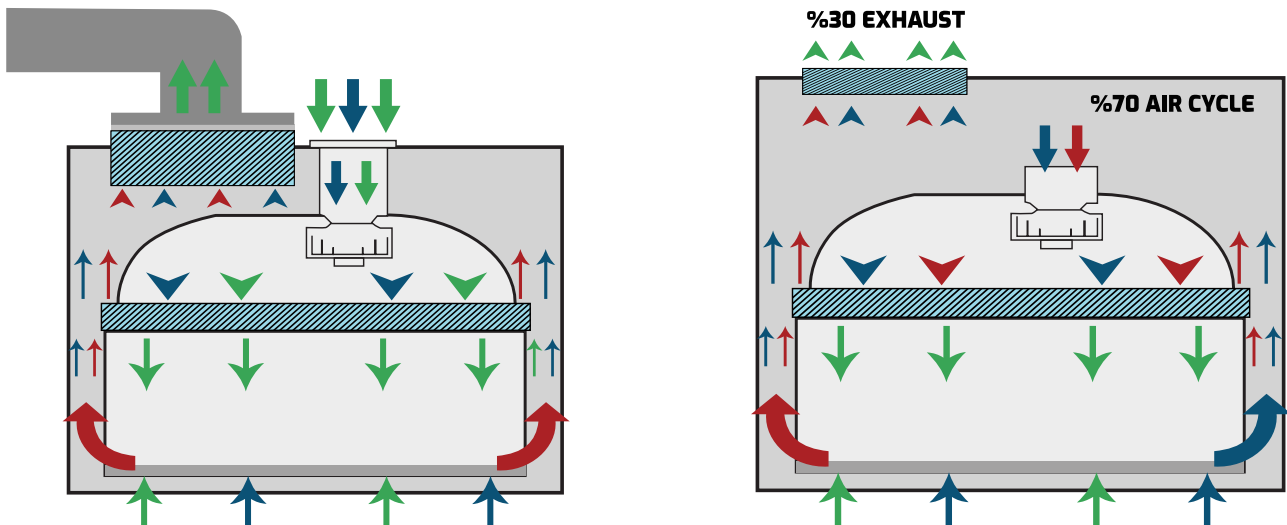
Kapsam Class II Type A2 and Type B2 microbiological safety (biosafety) cabinets provide superior protection for products, personnel, and the environment, enabling safe work with toxic chemicals and high pathogens.

In both models, air taken from the environment passes through a HEPA filter and then through a laminator to reach the working area, ensuring product protection with filtered laminar airflow. The air barrier at the front of the device guarantees personnel protection.

In the Class II Type B2 model, all air passes through the HEPA filter at high speed and is 100% exhausted outside. In the Class II Type A2 model, 30% of the air that passes through the glass opening and HEPA filter is exhausted to the external environment through the HEPA filter, while 70% is recirculated back into the work area after passing through the HEPA filter again.

AIRFLOW DIAGRAM

↓ HEPA Filtered Air ↑ Contaminated Worksurface Air ↓↓ Contaminated Room Air



Body & Design Features



- **Main Body:** Antibacterial electrostatic paint over steel.
- **<7° Inclined Front Panel:** Enhances view and ergonomic comfort.
- **Openable Front Panel Cover System:** Facilitates easy cleaning.
- **Control Panel:** Separately houses electronic controls and electrical components.
- **UV-Blocking Front Glass:** Protects against UV radiation.
- **Homogeneous and Speed-Controlled Airflow:** Ensures consistent air quality.
- **Advanced Filter Compensation System:** Maintains airflow speed with increased filter resistance.
- **Negative Plenum Fan Filter Unit:** Suitable for continuous operation.
- **Motorized Front Glass Adjustment and "Auto Setup" Feature:** Enhances user comfort and safety.
- **Uniform Lighting:** Reduces eye strain.
- **Timer-Controlled Effective UV Disinfection:** Enables scheduled UV disinfection.
- **D.O.P. Test Port:** Allows easy verification of HEPA filter performance.

Microprocessor Control Unit



	Automated IV Chemotherapy Compounding System		KS-340
Inflow Velocity:	0.50	m/s	04/06/2024 08:00
Downflow Velocity:	0.32	m/s	
Inflow Rate:	819.80	m ³ /h	
Downflow Rate:	1412.40	m ³ /h	
Remaining Foil Length:	3000	cm	
Device Status:	The device is ready for use		

TOUCH CONTROL PANEL FEATURES

- Power ON/OFF button
- Standby/Normal mode indicator
- Motorized (up or down) adjustable front glass
- One-touch automatic level adjustment
- Lighting and UV lamp ON/OFF buttons
- Automatic Standby mode when the front glass is closed
- Lifts up the front glass when appropriate air quality conditions are met
- Prevents shutting down the device without closing the glass
- Password-protected technical service maintenance/calibration
- Date and time information
- Audio and visual alarm button
- Incorrect front glass position warning
- Incorrect air speed warning
- Filter, pre-filter, and UV lamp replacement warning
- Technical service maintenance warning
- Periodical maintenance warning
- Real-time downflow/inflow air velocity and cycle rate values
- Device status information
- Alarm ON/OFF, temporary mute

OPTIONAL FEATURES

- Gas and Vacuum Valve
- Front cover unit with UV protection
- Wheeled carrier platform
- Foot resting platform
- ULPA filter
- Automated Sealing System
- Temperature/humidity sensor
- Hanging accessory
- 316L quality stainless steel countertop

Minimize Cross-Contamination with Waste Sealing System

Kapsam Biosafety Cabinets are optionally integrated with automated waste sealing system, enabling convenient waste disposal within the safe workspace. Integrated with cabinet automation, it enables monitoring foil length and receiving alerts before depletion of foil cassette ensuring the uninterrupted operations and a seamless and safe workflow.



Mobile Sealing System
for more information

visit product web page

Technical Specifications Table

Class II Type A2

CLASS, TYPE		Class II A2			
MODEL		KS-BK2A2-90	KS-BK2A2-120	KS-BK2A2-150	KS-BK2A2-180
DIMENSIONS & WEIGHT					
Nominal Size		90 cm (3')	120 cm (4')	150 cm (5')	180 cm (6')
Inner Dimensions (W x D x H) mm		920x630x680	1220x630x680	1520x630x680	1820x630x680
Outer Dimensions (W x D x H) mm		1050x820x1560	1350x820x1560	1650x820x1560	1950x820x1560
Carrying Stand (W x D x H) mm		1050x780x710	1350x780x710	1650x780x710	1950x780x710
Workbench Height (mm)		770	770	770	770
Cabinet Weight (kg)		300	325	350	375
Carrying Stand Weight (kg)		200	250	300	350
Total Weight (kg)		500	575	650	725
HEPA FILTERS & AIRFLOW					
Airflow Speed	In Flow	≥ 0,40 m/s			
	Down Flow	0,25 - 0,50 m/s			
Filters (EN 1822)	Pre Filter	EU4			
	Main Filter	H14 HEPA, 0,3 µm particulate %99,995 < filtration efficiency			
	Exhaust Filter	H14 HEPA, 0,3 µm particulate %99,995 < filtration efficiency			
Workbench Cleanliness Class	EN ISO 14644-3	< ISO 5			
	US FED 209E	Class 100			
ELECTRICAL PARAMETERS					
Energy Consumption	Fan Filter Unit (FFU)	250 W	250 W	250 W	500 W
	Lightening	12 W	16 W	20 W	24 W
	UV Lamb	15 W	15 W	15 W	15 W
	Electrical Socket Power / Current	2x1150 W / 2x5 A			
Total Power / Current		3427W / 14,9A	3430W / 14,9A	3434W / 14,9A	3639W / 15,8A
Power Consumption under Normal Operating Conditions (Lightening and Fan Motor)		750 W	780 W	750 W	925 W
ERGONOMY & COMFORT					
Front Glass Opening	Standard (Pre-set)	200 ± 10 mm			
	Maximum	440 ± 10 mm			
Noise Level		65 dB			
Lighting Intensity		800 lux			
MATERIAL					
Workbench	Standard	304 Stainless Steel			
	Optional	316 Stainless Steel			
Front Glass Thickness		6 mm (Tempered glass)			
QUALITY ASSURANCE & CERTIFICATES					
Compliance with EN 61010, EN 61326, EN 12469 Certified					

Technical Specifications Table

Class II Type B2

CLASS, TYPE		Class II B2			
MODEL		KS-BK2B2-90	KS-BK2B2-120	KS-BK2B2-150	KS-BK2B2-180
DIMENSIONS & WEIGHT					
Nominal Size		90 cm (3')	120 cm (4')	150 cm (5')	180 cm (6')
Inner Dimensions (W x D x H) mm		920x630x680	1220x630x680	1520x630x680	1820x630x680
Outer Dimensions (W x D x H) mm		1050x820x1670	1350x820x1670	1650x820x1670	1950x820x1670
Carrying Stand (W x D x H) mm		1050x780x710	1350x780x710	1650x780x710	1950x780x710
Workbench Height (mm)		770	770	770	770
Cabinet Weight (kg)		300	325	350	375
Carrying Stand Weight (kg)		200	250	300	350
Total Weight (kg)		500	575	650	725
Exhaust Fan Motor Capacity		920 m³/h	1075 m³/h	1340 m³/h	1603 m³/h
HEPA FILTERS & AIRFLOW					
Airflow Speed	In Flow	≥ 0,40 m/s			
	Down Flow	0,25 - 0,50 m/s			
Filters (EN 1822)	Pre Filter	EU4			
	Main Filter	H14 HEPA, 0,3 µm particulate %99,995 < filtration efficiency			
	Exhaust Filter	H14 HEPA, 0,3 µm particulate %99,995 < filtration efficiency			
Workbench Cleanliness Class	EN ISO 14644-3	< ISO 5			
	US FED 209E	Class 100			
ELECTRICAL PARAMETERS					
Energy Consumption	Fan Filter Unit (FFU)	208 W	208 W	416 W	416 W
	Lightening	12 W	16 W	20 W	24 W
	UV Lamb	15 W	15 W	15 W	15 W
	Electrical Socket Power / Current	2x1150 W / 2x5 A			
Total Power / Current		3265 W / 14,2 A	3269 W / 14,2 A	3481 W / 15,1 A	3485 W / 15,1 A
Power Consumption under Normal Operating Conditions (Lightening and Fan Motor)		550 W	580 W	750 W	900 W
ERGONOMY & COMFORT					
Front Glass Opening	Standard (Pre-set)	200 ± 10 mm			
	Maximum	440 ± 10 mm			
Noise Level		65 dB			
Lighting Intensity		800 lux			
MATERIAL					
Workbench	Standard	304 Stainless Steel			
	Optional	316 Stainless Steel			
Front Glass Thickness		6 mm (Tempered glass)			
QUALITY ASSURANCE & CERTIFICATES					
Compliance with EN 61010, EN 61326, EN 12469 Certified					



Comprehensive Solutions for Sterile Compounding & IV Infusion

- Automated IV Compounding Systems (TPN / ONCO / CIVA)
- Automated Fluid Dispensing Pump
- Pharmacy Operation & Order Entry Software (CPOE)
- IV Workflow Management System (IV-WMS)
- IV Compounding & Infusion Disposables
- Modular Cleanrooms & Accessories
- Biosafety & LAF Cabinets & Waste Sealing System



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