Laminar Flow
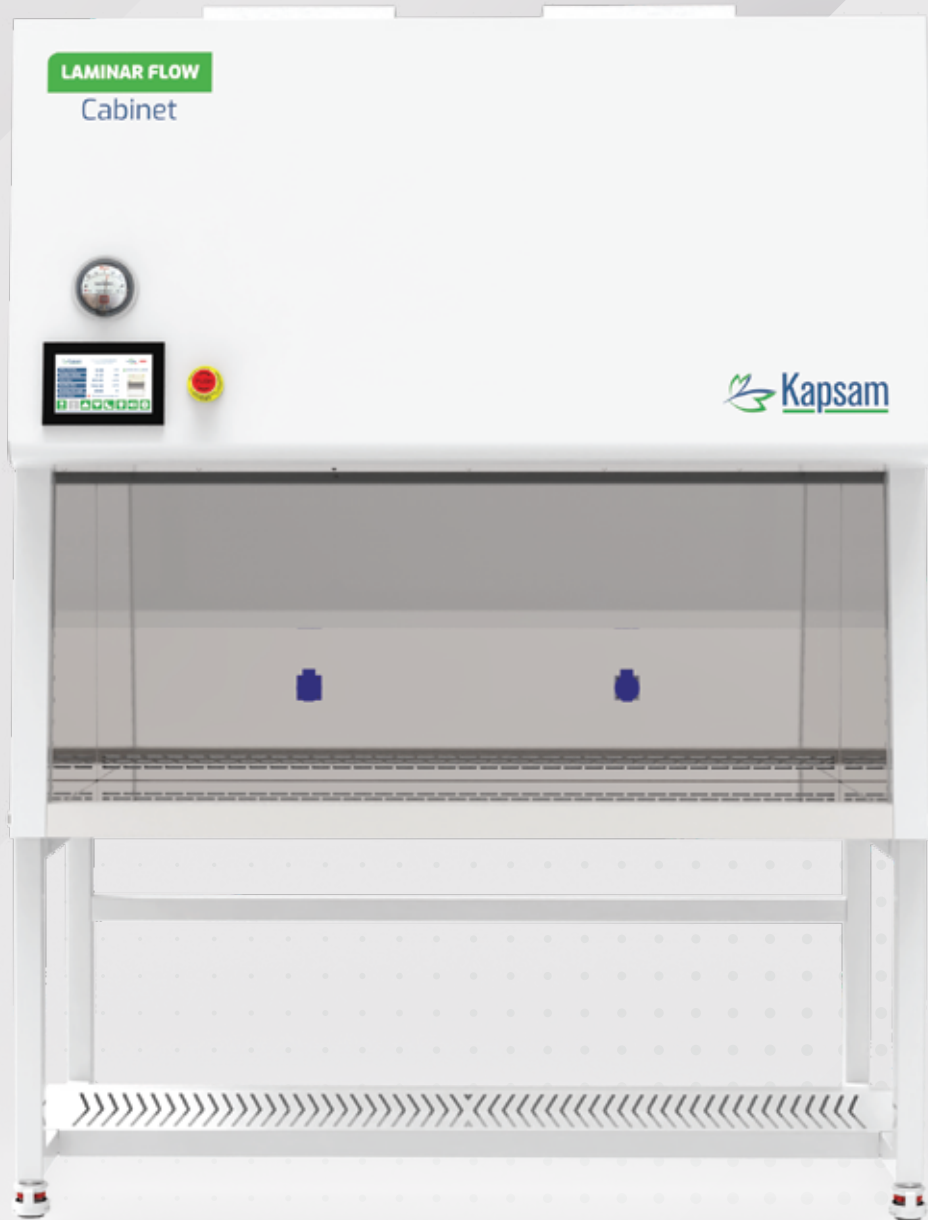# **Cabinets**

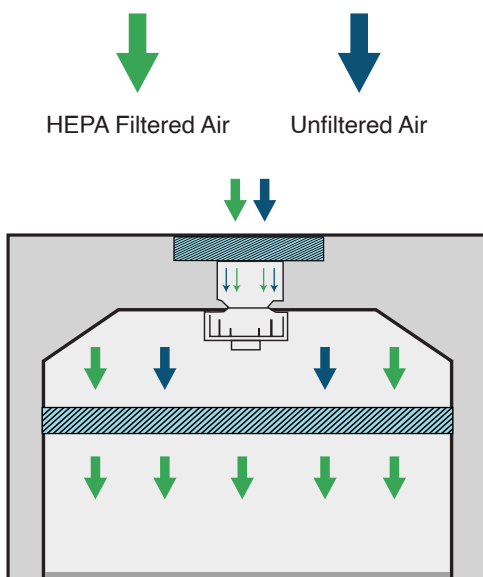

LAMINAR FLOW
Cabinet

Kapsam

Kapsam

Laminar Flow
Cabinets

LAF Cabinets are devices that meet the primary protection of products, samples and working materials from airborne particles, dust and microorganisms by providing a high-class clean environment.

Ambient air passes through the pre-filter (coarse filter) in the upper area of the cabinet and is taken into the cabinet. The ambient air passes through the pre-filter & HEPA filter respectively and flows to the working area at a speed of 0.45 m/s (±5%). Some of the cleaned air in the working area is discharged through the front opening. Continuous controlled exhaust of air through the front opening prevents the entry of contaminated air from the environment into the working zone.

AIRFLOW DIAGRAM

HEPA Filtered Air   Unfiltered 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.
- **Positive 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.

Technical Specifications
Table

CLASS, TYPE		Laminar Flow Cabinets			
MODEL		**KS-LK90**	**KS-LK120**	**KS-LK150**	**KS-LK180**
DIMENSIONS & WEIGHT					
Inner Dimensions (W x D x H) mm		920x670x845	1220x670x845	1520x670x845	1820x670x845
Outer Dimensions (W x D x H) mm		1050x795x1540	1350x795x1540	1650x795x1540	1950x795x1540
Carrying Stand (W x D x H) mm		1050x755x730	1350x755x730	1650x755x730	1950x755x730
Workbench Height (mm)		770	770	770	770
Cabinet Weight (kg)		275	300	325	350
Carrying Stand Weight (kg)		55	60	65	70
Total Weight (kg)		330	360	390	420
HEPA FILTERS & AIRFLOW					
Airflow Speed	Down Flow	0,45 m/s ± 5%			
Filters (EN 1822)	Pre Filter (Rough Filter)	EU4			
	Main 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		2750W / 11.9A	2750W / 11.9A	3000W / 13A	3000W / 13A
Power Consumption under Normal Operating Conditions (Lightening and Fan Motor)		400 W	400 W	550 W	550 W
ERGONOMY & COMFORT					
Windshield 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			
Exterior Material		Antibacterial electrostatic paint over steel material.			
Front Windshield Thickness		6 mm (Tampered glass)			
QUALITY ASSURANCE & CERTIFICATES					
Compliance with EN 61010, EN 61326, EN 12469, NSF/ANSI49 standards					

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**

Kapsam

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