

KBN Cabinets have been adopted in use for product protection from airborne contamination or while handling not-pathogenic biological specimens in applications such as: Sterility Test, Microbiology, In Vitro Fertilization, Preparation of ophthalmic solutions, Preparation of culture media, Assembly of electronic devices, Nutritional Parenteral Therapy, Assembly of medical devices.

KBN cabinets are "Class 100" or "ISO CLASS 5" horizontal laminar flow cabinets which represent far more economical and valid alternatives to clean-rooms, as they are capable of providing uncontaminated, particle-free and sterile conditions for materials in the work-space.

They guarantee and maintain excellent product protection factors by offering a decontaminated working area by virtue of the pre-filter with a minimum efficiency of 80%-90% ASHRAE – and the HEPA filter with an efficiency better than 99.995% MPPS (H14 – EN:1822).

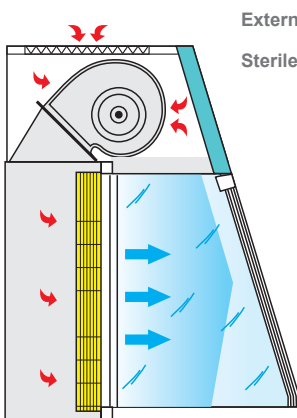
The KBN horizontal laminar airflow cabinets have epoxy powder coated steel structures and an AISI 304L stainless steel working surface.

Alternatively special models made in AISI 304L stainless steel for superior cleanability are also available on demand.



KBN horizontal laminar flow airflow benches can be used in a wide range of disciplines, including:

- Sterile manipulation
- Sterile tests
- Microbiology
- Preparation of ophthalmic solutions
- Preparation of culture media
- Assembly of equipment
- Floriculture
- TPN preparation
- Medical device assembly



External air ← The ambient air is drawn in from the top through the upper part of the cabinet via a pre -filter and it then passes after filtration through a HEPA filter into the working area in a horizontal laminar air flow pattern and exhausted outside.

Sterile air ←

Model	Internal Dimensions mm			Overall Dimensions mm			Power Kw	Weight Kg
	W	H	D	W	H	D		
KBN3	885	734	600	945	1195	925	0.4	100
KBN4	1190	660	600	1250	1195	925	0.4	125
KBN5	1495	734	600	1555	1195	925	0.8	180
KBN6	1800	734	600	1860	1195	925	0.8	195

Dimensions and specifications are subject to change without notice for further improvements on design. Dimensions may vary dependent on different accessories be used.

- **Construction:** Corrosion resistant epoxy powder painted steel (as standard) glazed AISI 304 stainless steel (on demand).
- **Work surface:** AISI-304 stainless steel (as standard) or non reflective plastic laminate (on demand).
- **Transparent side walls / safety glass**
- **Absolute filter:** HEPA filter, tested with D. O. P. aerosol. Their efficiency, higher than 99.995% MPPS –0.005% penetration –ensures performance exceeding requirements of EN1822, U. S. Federal Standard 5295, VDI-2083 and AS 1386-1979.
- **Pre-filters:** Synthetic fiber pre-filters are washable in water or with compressed air, average arrestance 80/90% ASHRAE (CEN-G3); dust holding capacity 400g/m²
- **Motor-blower (s):** Direct coupled motor (s), electronic speed controlled to maintain a constant air flow of 0.45m/sec, and compensate for a partially clogged filter, up to a maximum plenum pressure of 40 mm of water.
- **Power supply:** 230V – 50Hz, single phase. Other voltages on request.
- **Lighting:** Fluorescent lights installed on the anterior part of the ceiling.



F74 200910	Epoxy powder painted modular stand for KBN-3
F74 200920	Epoxy powder painted modular stand for KBN-4
F74 200930	Epoxy powder painted modular stand for KBN-5
F74 200940	Epoxy powder painted modular stand for KBN-6
F74 200510	UV lamp and PVC shutter for KBN-3
F74 200520	UV lamp and PVC shutter for KBN-4
F74 200530	UV lamp and PVC shutter for KBN-5
F74 200540	UV lamp and PVC shutter for KBN-6
F74 200610	PVC shutter for KBN-3
F74 200620	PVC shutter for KBN-4
F74 200630	PVC shutter for KBN-5
F74 200640	PVC shutter for KBN-6
F74 200750	Automatic speed regulator and digital anemometer
F72 709076	D.O.P. inlet
F75 700770	Service connection for electrical power
F74 200760	Service connection for gas/vacuum (manual tap)
F72 700790	Differential pressure gauge
F72 700780	Hour counter
F72 709176	Stainless steel bar for bags to be fitted on KBN-3
F74 709177	Stainless steel bar for bags to be fitted on KBN-4
F72 709178	Stainless steel bar for bags to be fitted on KBN-5

Structure of the KBN model horizontal LAF cabinets is in epoxy powder coated cold-rolled steel for excellent corrosion resistance to the attack by aggressive common chemicals.

Alternatively special models made in AISI 304L stainless steel for superior cleanability are also available on demand.

Work surfaces are made in stainless steel AISI-304L (standard version) – or made of non- reflective plastic laminate panel (special version) on demand.

Transparent side walls in safety glass and flexible frontal closure shutter (available as an option).

Membrane keyboard front panel with touch-sensitive buttons for: main On/Off switch, light, power socket, night mode and UV lamp. It is fitted with digital display for indicating air velocity, in case the cabinet is equipped with anemometer or automatic airflow control.

UV sterilizing lamp available as added option – complete with a flexible front shutter in order to close the working area from dust and for the safety of operators.



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