

Quality made in TURKEY



EFLAB

BIOSAFETY CABINET CLASS 2 A



EFLAB Class II Type A Biological Safety Cabinets works under principles of air circulation and air filtration by keeping the working area under negative air pressure. In BSC, 70% (+/-%5) of total air is recirculated and filtered through the main HEPA filter located at work zone top. The rest of the air, 30% (+/-%5), is exhausted to the surrounding area environmentally protected after passing through the exhaust HEPA filter. The room air is pulled through the perforations located in front of the work plate and directed to blower plenum (inflow air). This airflow direction prevents dirty air reaching to the materials over the working plate. Inflow air together with recirculated air is mixed at the blower plenum then passes through the main HEPA filter and laminarizator and reaches into the work area protecting the work zone, under ISO-5 class laminar airflow. In addition to the primary air barrier accomplished by the negative pressure within the working zone double-wall negative plenum design of the **EFLAB** cabinet prevents particle from escaping to surroundings and zero leakage is ensured. Antibacterial Epoxy Powder paint Coated Stainless Steel

- < 7° angles sloped front panel for work comfort and increased work-chamber vision
- Easy reachable electronic control & electrical part protection inside at front panel isolated from work-chamber
- UV Resistant tempered glass
- Aerosol-tight sash window
- One key touch on-off
- Timer setting
- Inflow/Downflow Air Velocity/Airflow Rate
- System Ready/Not-Ready message/warning
- Normal/Stand-by option button
- Automated airflow rate and velocity compensation system
- HEPA Filter Life (percent)
- Total Work-Time
- UV and FL Lamp Work-times
- Automatic Stand-by status at sash window closure
- Motorized sash window level position setting
- One key sash window Preset position
- Automatic UV Lamp-Off protection at the sash window opening
- Sash window position message
- Servicing records
- Password protected technical service key

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TECHNICAL TABLE

Internal Dimensions (WxLxH) mm		1190x630x625
External Dimensions (WxLxH) mm		1340x850x1450
Support Stand (WxLxH) mm		1340x850x745
Support Stand Height From Ground		840 mm
Air Flow (m/s)	Inflow	0.50 ± %5
	Downflow	0.38 ± %5
HEPA Filter Types (EN 1822)	Main Filter	H14 HEPA 0,3 µm %99.995
	Exhaust Filter	H14 HEPA 0,3 µm %99.995
	Pre-Filter (EN779, Opsiyonel)	EU4
Clean Area Class	EN ISO 14644-3	< ISO 5
	US FED 209E	< Class 100
Working Table (Single piece monoblock or multiple pieces withhold apparatus)	Standard	304 Stainless Steel
	Opsiyonel	316L Stainless Steel
Front Glass Aperture (mm)	Preset/Std	200cm ± 10mm
	Max	530cm ± 10mm
Noise Level	Normal Mode	< 56 dB(A)
	Eco (Stand by) Mode	< 50 dB(A)
Working Area Illumination (Lux)		850 – 1250 Lux
Front Glass		< 6 mm
Power consumption (kW)	Fan Filter Unit	200 W
	Illumination	50 W
	UV Lamp	30 W
Electrical socket voltage and current		220-240 VAC / 16A
Supply Voltage / Frequency /Power / Current		230 VAC / 50 Hz / 2500 W / 16A
Pack/Palette Dimensions (WxLxH) mm		1645x980x1840
Weight (kg), without support stand		300 kg

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