

MICROBIOLOGICAL SAFETY CABINET BIOHAZARD Class II



BH-120DG BH-150DG

Vertical laminar air flow

Has been designed as a Class II Biohazard cabinet according to EN-12469. Designed for the situation where is requested the operator, product and environmental protection from dangerous effects due to uncontrolled diffusion of air-transported contaminants and in the same time, to avoid any biological interference from the environmental to the product during its handling.





► APPLICATIONS

BH-120DG & BH-150DG Safety cabinets are use for containment and removal of toxic vapors and aerosol, providing operator safety in a wide range of disciplines. Application for Laminar may be found in many laboratories, including those in clinical diagnostic testing, biological and medical research, analytical chemistry, Q.C, biotechnology.

DESIGN FEATURES



Each Laminar air Flow contains an IP44 centrifugal motorfan, capable of maintaining a constant air flow by compensating which occurs during normal operation.

- * Microprocessor based monitoring system.
- * Microprocessor based system audible and visual alarm alert the operator if the cabinet dose not operate in complete safety.
- * The cabinet made from sheet steel that is coated with epoxy.
- * The fan system assure that no part of cabinet is under positive contaminated pressure to the laboratory, thus preserving environment and personal from bio-contaminated risk.

► SPECIFICATIONS

1.Contruction : Epoxy coated steel for improved strength and resistance to corrosion and atmospheric agents.	 6.Microprocessor monitoring system: display laminar air flow velocity display service hour of cabinet display lifetime of U.V. & HEPA Filter
2 Work Surface: Stainless steel	- display II V lamp inlet
AISI-316 AISI-304 (can be selected)	- display time & date
completely perforated to ensure flow laminarity	7. Alarm System:
and air recycling at the work surface level.	 out of range air velocity(sound&monitor) door position (sound&monitor)
3.Front window: The frontage is fixed by 6 mm	- HEPA filter expired (monitor)
safety glass and UV. Protection. Electrical controlled	- U.V. expired (monitor)
	8.Light & UV. Lamp:
4.Filter: Main HEPA filter and Exhaust HEPA	The intensity of the illumination in working
filter, 0.3 micron, their efficiency 99.995%	area is not less 1,000 lux. There are U.V. lamp 30
	watts (wave length 254 nM.).For stop bacteria
5.Motor-Blower: centrifugal fan, direct driven	growth and timer on-off.
motor. The filtration system is design to provide a	
barrier of air with minimum average speed over	9.Option features:
0.40 m/s. Microprocessor controlled and timer	- Electrical Socket 220V/50Hz/ 5A
on-off	- Two gas connection, one with manual

tap, the other with solenoid valve.

► OPERATION PRINCIPLES





- 1. Light switch
- 2. U.V. Lamp switch
- 3. Solenoid valve switch
- 4. Electrical socket switch
- 5. Speed reduction
- 6. Mute
- 7. Up-down level Glass
- 8. Motor on-off
- 9. Main switch
- 10. Graphic LCD (Back light)
- 11. Key setup

TECHNICAL SPECIFICATIONS

	BH-120DG	BH-150DG
AIRFLOW Air Velocity (m/sec) Recirculated flow rate (m3/hr)	0.40 (+/-0.05) 1,050	0.40 (+/-0.05) 1,250
ELECTRICAL Voltage/Power Lighting U.V. lamp & U.V. Internal Power Socket (220 VAC)	220-240V/50-60Hz > 1,000 LUX 2 X 30 Watts 2	220-240V/50-60Hz > 1,100 LUX 2 X 30 Watts 4
CONTRUCTION Base Section Working Surface Work Chamber	Epoxy coated Painted Stainless steel AISI 3 Stainless steel AISI 3(steel
FAN MOTOR Noise Level	Centrifugal Fan, 1/2 HP, 220V/50Hz < 59 dB(A) (Operation Position)	
FILTER Main Filter Exhaust-Filter		
DIMENSIONS(mm) Overall Dimension Useful Dimensions Exhaust Duct (diameter)	D W H 790 1,350 1,470 580 1,180 655 200	D W H 790 1,750 1,470 580 1,148 655 200
VACUUM AIR LINE Manual tap Electrical Control		1 1
CONTROLS PANEL	Soft touch panel mic	proprocessor control system

SEDRA