Euro Clone®
serving science through innovation

S@fe^3

Class III MICROBIOLOGICAL SAFETY CABINETS

Safety you can afford

Technical Specifications

- Manufactured in accordance with EN12469:2000 standard
- State of the art microprocessor control system
- Main switch with removable key
- Soft touch keyboard
- Bar graph for exhaust air flow conditions; permanent display
- Alarms for low air flow
- Sloped front for the most comfortable access
- Front and side access for filter maintenance and service
- C-shaped support stand for easy *one man installation* procedure
- Transfer hatch with interlocked doors (right or left positioned)
- Class III cabinet with exclusive three filter design and Class 100 inner chamber.

BioAir Class III microbiological safety cabinets are supplied in two comfortable sizes (1.2mt and 1.8mt)

Main specifications

- Controls comfortably located at eye level
- Fan speed and aeraulic controlled by Microprocessor
- Three operating modes: normal, stand-by, calibration
- High speed rinse at start up
- Self calibration and internal Watch-dog cycle before "SAFE" condition is reached
- Visual display of "SAFE" conditions and "UNSAFE" conditions (LED and bar graph)
- Elapsed time meter
- Microprocessor control with following specifications:
    - Multilevel alarms, with redundancy functions.
    - Permanent display of working conditions.
    - High air flow stability both in case of transitional disturbances or to progressive filter clogging
    - Power failure alarm
- Volt-free contact for remote monitoring of exhaust fan.
- Automatic reset of initial conditions in case of power failure
- C-shaped support stand for easy *one man installation* procedure
- Anti blow back valve (optional) for ducted configuration
- Magnehelic Gauge for internal chamber pressure constant monitoring
- One (1) Electrical Socket (1.2), two (2) Electrical Socket (1.8 size) as standard option.
- UV-Light installed on top (standard option)

Mechanical and functional specifications

- Sloped front design for the highest operational comfort.
- Stainless Steel internal surfaces with 2B finishing
- Liquid retaining work surface (Stainless Steel 2B finishing)
- Total visibility air and aerosol-tight front window equipped with robust gloves (Class III) for the safest operation when working with Risk Group 4 pathogens.
- Class III: Exclusive four filter design for the highest safety of the environment and the operator (Risk Group 4 pathogens): one (1) prefilter, one (1) HEPA H14 In-Let, two (2) HEPA H14 Exhaust Filters.
- H14 class High Efficiency Particulate Air filters with 99.995% efficiency on MPPS (most penetrating particle size) (EN1822-1 and EN 13091:1999 tested and certified)
- Filter change and maintenance from the front of the cabinet.
- Exhaust transitions easily installable.
- Anti-blow-back valve available as add-on option
- Key operated. The key can be removed when the unit is in SAFE mode, in order to avoid unwanted operation. In case of power failure, the cabinet is re-set to original working conditions.
- Self calibration cycle performed when cabinet is switched on.
- High speed rinse and set up cycle performed, before reaching the SAFE operating mode.
- Visual display of SAFE conditions. Pre-warning before actual alarm conditions are reached (visual and acoustic alarms)
- Soft touch control with keys for standard service utilities. Interconnected UV and fluorescent lights.

- 100% air exhaust.
- Light intensity on work surface > 1000 lux.
- Noise level ≤58 dB(A) [1.2 size]
- Work surface displacement (vibration) <0.005mm RMS between 20Hz and 20,000Hz (ISO 5349 tested and certified)
- 230V, 50Hz (230V,60Hz also available)
- Max power (for each power point): 3Amps.
- Microprocessor equipped with analogical watch-dog.
- Leakage tested in agreement with EN 12469 and ISO10648.2
- CE certification according to Machinery Directive 2006/42/CEE

Technical Features S@fe^{3} Class III Cabinet

Model	**1.2**	**1.8**
Order number	**LT20000**	**LT40000**
Overall size (wxdxh) mm	2015 x 822 x 1300	2565x822x1300
Work Chamber size (wxdxh) mm	1200 x 660 x 700	1750x660x700
N° of glove ports	2	4
Exhaust air flow rate (m3/h)	> 180 m3/h	> 180 m3/h
Internal Differential pressure (Pa)	< -220	< -220
Weight (kg)	210	270
Power Supply	220/240V 50Hz	220/240V 50Hz
Power (W)	500 W	1000 W
Noise level	< 58dB(A)	< 58dB(A)
Lighting lux	>1000	>1000

These Microbiological Safety Cabinets, are manufactured according to EN12469:2000

EUROCLONE S.p.A