

s@femate series
Safety you can trust

BIOAIR[®]
a EuroClone[®] Division



Microbiological Safety Cabinet Class II type A2

CERTIFIED EUROPEAN DESIGN AND HIGH QUALITY MANUFACTURING

The [sofemate](#) range of Microbiological Safety Cabinets (MSC) Class II type A2 has been launched in 2006 and has become a challenging product for all main competitors, thanks to its exclusive features which provide an extremely reliable level of safety for the operator, the environment and the product.



semate 1.2

semate and semate vision Cabinets are supplied in four different sizes (0.9mt, 1.2mt, 1.5mt and 1.8mt). These last generation Microbiological Safety Cabinets Class II type A2, have been certified according to the most stringent safety standards (EN12469 : 2000).

The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the very accurate manufacturing, guarantee the highest performances at the most stringent safety levels, as specified by EN12469 standards and have been certified by the most prestigious European certification bodies for Safety Cabinets.

Certified intrinsic biological safety, combined with impressively competitive prices, give the end user a state of the art cabinet accessible to every budget, that only experienced European design and accurate quality manufacturing can provide.



seremate vision: the 6 mm safety glass walls offer excellent visibility and easy cleaning.

Programmable mobile UV kit interlocked with fan and front window position, ensures high decontamination and optimizes bulb lifespan. UV fitted on rear wall available on request.



C-shaped support stand: easy installation and great comfort of use for the operator. Adjustable height support stand available.

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Microbiological Safety Cabinet Class II Type A2

Main specifications

- Fully EN12469 certified by TÜV Hamburg.
- Electrical air-tight sliding sash, with “**zy**” movement, operated by soft touch panel (EN12298 tested and certified for air tightness).
- Microprocessor controlled motor blower, with volumetric sensor for exhausted air flow monitoring.
- Specifically designed microprocessor software and environmental friendly components ensures low energy consumption for an high efficiency and reduced heat output.
- “**Silence Within**” design: integrated methodology and technology for improved control of surface transmitted noise, reduction of noise at the source, elimination of noise propagation, and noise emission that guarantees the quietest environment conditions in your laboratory.
- State of the art Microprocessor control system offering:
 - ✓ High resolution large digital display.
 - ✓ On line automatic control of airflow volumes.
 - ✓ Sliding sash window with smart control.
 - ✓ Permanent monitoring of HEPA filters life span.
 - ✓ Alarms. Multilevel alarms, with redundancy functions.
 - ✓ Permanent display of working conditions.
 - ✓ Highest air flow stability both in case of transitional disturbances or of progressive filter clogging.
 - ✓ Semi-automatic fumigation cycle (EN12297 tested and certified).
 - ✓ Fully automatic UV light cycle program.
 - ✓ Continuous monitoring of front barrier air flow for the highest operator safety.
 - ✓ Low barrier alarm.
 - ✓ Power failure alarm.
- Volt free contact for monitoring of optional remote exhaust fan.
- Automatic reset of initial conditions in case of power failure.
- Hydraulic height adjustable support stand (manual and electrical).

Mechanical and functional specifications

- Sloped front design for the highest operational comfort. Sloped back side of the working chamber for the best down flow distribution (cabinet carcass EN12298 tested and certified for air tightness).
- Utilities inlets from the top of the cabinet.
- Stainless Steel AISI 304 internal surfaces with 2B finishing (including spillage tray).
Solid work surface and special designed front grill.
- 6 mm multilayer safety glass side walls on [s@femate vision](#) series.
- Electrically operated sliding 6 mm multilayer safety glass front window.
- Comfortable 200 mm front opening at operational conditions.
- Hinged front glass for easy cleaning procedures (swing out feature).
- Easy to install retrofit options through side panels.
- Easily accessible exhaust HEPA filter.
- HEPA H14 class High Efficiency Particulate Air filters with 99.999% efficiency on 0.3 µ particles (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.
- Key operated. The key can be removed when the unit is in SAFE and OFF mode, in order to avoid unwanted operation. In case of power failure, the cabinet is reset to original working conditions.
- Self calibration cycle performed when cabinet is switched on.
- Visual display of SAFE conditions. Pre-warning before actual alarm conditions are reached (visual and acoustic alarms).
- Soft touch control panel for standard service utilities. Interconnected UV and fluorescent lights.
- Exhaust and recirculating flow rates ensure 25 air changes/ min in the working area (30% 70% split).
- Front barrier air speed $\geq 0.5\text{m/s}$.
- Aperture protection Factor (Apf) $\geq 1.5 \times 10^5$ (retention efficiency).
- Cleanability Index C grade (EN 12296 tested and certified).
- Light intensity on work surface ≥ 1200 lux.
- Noise level ≤ 55 dB(A) (ISO 11201, ISO 4871 and ISO EN 3744 tested and certified).
- Work surface displacement (vibration) $<0.005\text{mm RMS}$ between 20Hz and 20,000Hz (ISO 5349 tested and certified).
- 220/240V, 50Hz.
- Max power (for each power point) 3Amps.
- Microprocessor equipped with analogical watch dog.
- CE certification according to Machinery. Directive 89/392/EEC, 91/368/EEC, 93/44/EEC 93/68/EEC.





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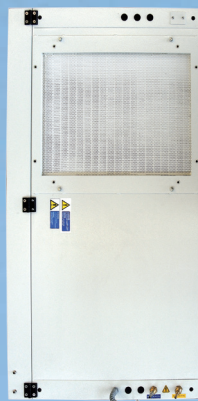
- High resolution large digital display.
- Permanent monitoring of HEPA filters life span.
- Alarms. Multilevel alarms, with redundancy functions.
- Permanent display of working conditions.
- Continuous monitoring of front barrier air flow for the highest operator safety.



The electrically operated sliding sash is also hinged to allow easy cleaning according to GLP.



Front



Top



Side



"Vision" Side

Model

	<u>safemate 0.9*</u>	<u>safemate 1.2*</u>	<u>safemate 1.5*</u>	<u>safemate 1.8*</u>
Work chamber dims (wxdxh) mm	924 x 600 x 700	1230 x 600 x 700	1530 x 600 x 700	1840 x 600 x 700
Overall dims (wxdxh) mm	1074 x 840 x 1450	1380 x 840 x 1450	1685 x 840 x 1450	1990 x 840 x 1450
Height on stand mm	2175	2175	2175	2175
Front opening mm	195	195	195	195
Weight Kg	160	190	230	300
Power supply single phase	220/240 V - 50 Hz	220/240 V - 50 Hz	220/240 V - 50 Hz	220/240 V - 50 Hz
Power W	350	400	550	750
Noise level dB(A)	≤ 55	≤ 55	≤ 57	≤ 57
Lighting lux	≥ 1200	≥ 1200	≥ 1200	≥ 1200

* Also available as "Vision" series with lateral glass sides and "BS" series with integrated dual exhaust filter

How to order	
Class II Type A2 Microbiological safety Cabinets	
LDD0000	S@femate 0.9
LDE0000	S@femate 1.2
LDF0000	S@femate 1.5
LDG0000	S@femate 1.8
Class II Type A2 Microbiological safety Cabinets with glass sides	
LDD0200	S@femate 0.9 Vision
LDE0200	S@femate 1.2 Vision
LDF0200	S@femate 1.5 Vision
LDG0200	S@femate 1.8 Vision
Class II Type A2 Microbiological safety Cabinets "BS" (Dual exhaust HEPA Filter)	
LDD0300	S@femate 0.9 BS
LDE0300	S@femate 1.2 BS
LDF0300	S@femate 1.5 BS
LDG0300	S@femate 1.8 BS
Stands and UV	
AS1D000	Stand for all 0.9 models
AS1A000	Stand for all 1.2 models
AS1B000	Stand for all 1.5 models
AS1C000	Stand for all 1.8 models
AKC0001	Mobile UV light kit
Please enquire about the many option and accessories available.	

Installed standard utilities:

- 1 Gas tap with solenoid valve.
- 1 Vacuum tap.
- 1 Electrical socket type Schuko (2 each on 1.8 model).
- 1 Multifunction socket

EuroClone S.p.A. reserves the right to change product specifications without prior notice

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serving science through innovation

BIOAIR Via Lombardia, 12 - 27010 Siziano (PV) - Italy

Phone +39.0382.66721 - Fax +39.0382.667258 - e-mail: bioair@euroclone.net

EuroClone S.p.A. has a Quality System certified Dasa Raegister spa in compliance with UNI EN ISO 9001:2000 and ISO 13485:2003

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