Euro Elone®

serving science through innovation

Catalogue

ABSTRACT: *LAB EQUIPMENT*

Products for life sciences

1. Cabinets

- Microbiological Safety Cabinets
- Cytostatic Drugs Handling Cabinets
- IVF Workstations
- Laminar Flow Cabinets
- PCR Cabinet
- Recirculating Fume Cupboards

Microbiological Safety Cabinets

S@feflow® Series
The ultimate Microbiological Safety Cabinet

Features

MSC Class II (Type A2)
Last generation Microprocessor control with interactive functions
Large screen monitor, with permanent display of critical functions and operational / emergency messages.
Multilevel alarms with redundancy functions
Continuous measurement of volumetric airflows (total and exhausted)
Air and aerosol-tight sliding sash, with unique "YZY" movement, electrically operated by finger touch
Automatic Sterilisation Cycle (ASC), reliable, safe and reproducible.
Double skin configuration
Sloped front and back side

S@feflow® Cabinets are supplied in three different sizes (0.9mt, 1.2mt and 1.8mt). These highly sophisticated Microbiological Safety Cabinets Class II (Type A2), provide the highest safety for the operator and the environment for the manipulation of Risk Groups 1 to 3 of pathogens (WHO Classification of Infective Microorganisms by Risk Group, 2004)
The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the comprehensive range of unique options, guarantees the highest performances at the most stringent safety levels, higher than those specified by EN12469:2000 standard.
Certified intrinsic biological safety, combined with highly sophisticated interactive features and options, gives the end user, the environment and the product an ultimate microbiological safety that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.

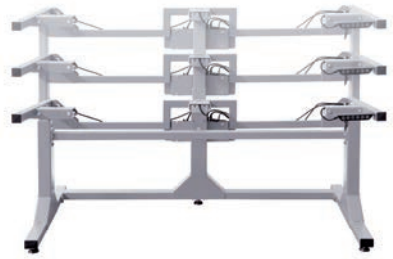
S@feflow® 1.2

Main specifications

- Sloped front for highest operational comfort.
- Air- and aerosol-tight electrical sliding sash with unique "YZY" movement. User friendly swing-out feature for effective cleaning and sanitation of the inner glass surface.
- Microprocessor control with following main specs:
  - o Large screen monitor.
  - o Easy to read. Multi-functional display. Icons to access the different functions. Permanent display of main parameters. Message display (standard functions and emergency situations)
  - o Three levels of PIN codes: Operator, Supervisor and Calibration.
  - o Accessory functions
  - o Choice of four languages, time and date display, SW version display, entered PIN level display, etc.
  - o Fully automatic UV light cycle
  - o Sliding sash window with smart control (opens/closes automatically when required during certain automatic cycles such as UV positioning, automatic fumigation, etc). The window can be also operated manually directly from the keyboard.
- Front window swing-out feature for internal cleaning.
- Work access opening:190 mm
- Permanent monitoring of HEPA filters life span.
- Permanent monitoring of UV light life span.
- Direct maintenance and re-calibration accessible from the keyboard no need of external lap tops neither of opening the electrical panel for normal calibration procedures.
- Alarms. Multilevel alarms, with redundancy functions (direct speed measurement and position of the window checked by double micro switch). Permanent measurement of total flow and exhaust flow by vane anemometer(s).
- Multitask multi-pin plug built in as standard option, for monitoring of the UV cycle and of the automatic sterilisation cycle
- Very silent and quite operation <53dB(A) due to special soft plenum design and highly vibration-free suspensions of the fan(s).
- Utilities plug-in from the top. Standard gas tap, power point and vacuum tap are connectable from the top of the cabinet. Consequently the overall width footprint of the cabinet is considerably reduced.
- Automatic Sterilisation Cycle - ASC (Optional kit: Formalin vaporiser and neutralising activated carbon filter exhaust kit) operated by the microprocessor. Cycle is based on following steps (times for each step can be set according to a precise protocol that the user can validate):
  - o Vaporising (formaldehyde is fumigated in the working chamber)
  - o Diffusion (formaldehyde is circulated in the plenum and through the Hepa filters)
  - o Contact time (for proper sterilisation effect)
  - o Purge with automatic control of the residence time of the exhausted air through the activated carbon filter. This allows the filter to have at any time the same efficiency, independently from the concentration of formaldehyde in the exhausted air. The front window is opened and the voltage applied to the fan is automatically controlled in order to optimise residence time.
- Five different exhaust kit options to satisfy the most stringent needs
  - o Passive transition adapter for short ducting
  - o Remote external fan with or without additional filter
  - o Thimble for multiple connection configurations with central exhaust
  - o Activated charcoal filter automatic fumigation
  - o Integral dual HEPA exhaust filter
- Recessed exhaust filter configuration to maximize distance from HEPA filter surface to laboratory ceiling, even with dual exhaust filter installed.
- Data Transmission Output Kit: this kit is used for downloading operational data relevant to several main operational parameters and can be operated by a total of up to 10 users on the same cabinet.
- Electronically adjustable stand **S@femove**[it] with continuously adjustable height and three stored positions, for seating or standing work and disabled operators.

Mechanical and functional standard 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).
- Stainless Steel AISI 304 internal surfaces with 2B finishing (including spillage tray). Perforated work surface (3 sections) and special designed front grill. Solid work surface available.
- Stainless steel AISI304 spillage sump.
- Electrically operated sliding multilayer safety glass window; swing out features for cleaning (up to 120°) .
- Utilities inlets from the top of the cabinet.
- Recessed exhaust HEPA filter.
- HEPA H14 class High Efficiency Particulate Air filters guaranteed with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified].
- Main Filter is equipped with a aluminium diffuser located downstream which acts as airspeed equalizer expansion plenum, as well as a filter protection.
- Filter change and maintenance from the front of the cabinet.
- Exhaust transitions easily installable.
- Automatic restore of original working conditions in case of power failure.
- Self calibration cycle performed at start-up.
- High speed rinse and set up cycle performed, before reaching the SAFE operating mode.
- Soft touch control with keys for standard service utilities.
- Interlocked 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 ≥ 0.5mt/sec.
- Aperture protection Factor (Apf) ≥ 2x 10^5 (KI-discus test).
- Cleanability Index CC grade.(EN 12296 tested and certified).
- Light intensity > 1200 lux.
- Noise level ≤ 53dB(A) (ISO 11201, ISO 4871 and ISO EN 3744 tested and certified).
- Work surface displacement (vibration) <0.005mm RMS between 20Hz and 20,000Hz (ISO 5349 tested and certified).
- 230V, 50Hz; 220-230V, 60Hz version also available.
- CE certification according to Machinery Directive 89/392/EEC, 91/368/EEC, 93/44/EEC 93/68/EEC and updates.



Technical Features

	S@feflow 0.9	S@feflow 1.2	S@feflow 1.8
Work chamber dimensions (WxDxH)	879x600x650 mm	1183x600x650 mm	1793x600x650 mm
Overall dimensions (WxDxH)	1055x792x1455 mm	1360x792x1455 mm	1970x792x1455 mm
Height on stand	2235 mm	2235 mm	2235 mm
Work access opening	190 mm	190 mm	190 mm
Weight	200 kg	270 Kg	350 Kg
Power supply	230V / 50Hz or 220-230V / 60Hz	230V / 50Hz or 220-230V / 60Hz	230V / 50Hz or 220-230V / 60Hz
Noise Level	≤53dB (A)	≤53 dB (A)	≤54 dB (A)
Lighting	≥1200 lux	≥1200 lux	≥1200 lux

S@femate® Series
Safety you can trust

Features

State of the art microprocessor control system.
LCD monitor
Air and aerosol-tight sliding sash, with unique "YZY" movement, electrically operated by finger touch
Alarms for low air flow and wrong front window position
Sloped front and back wall for the most comfortable access and best downflow distribution
Available with or without side windows
Front access for filter maintenance and service
C-shaped support stand for the easiest one man installation procedure
Easy retrofit option kits

S@femate® Cabinets are supplied in four different sizes (0.9mt,1.2mt, 1.5mt and 1.8mt) and two versions (Classic and Vision, with side windows). 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, guarantees the highest performances at the most stringent safety levels, as specified by EN12469:2000 standard.
Certified intrinsic biological safety, combined with impressively competitive prices, gives the end user a state of the art cabinet accessible to every budget, that only experienced European design and accurate quality manufacturing, can provide.

Main specifications

- Microprocessor controlled motor blower, with volumetric sensor for exhausted air flow monitoring
- State of the art Microprocessor control system offering:
  - o LCD monitor
  - o Choice of five languages (EN, IT, D, E, F)
  - o Automatic control of preset airflow volumes.
  - o Sliding sash window with unique "YZY" movement.
  - o Permanent monitoring of HEPA filters life span.
  - o Alarms. Multilevel alarms, with redundancy functions.
  - o Permanent display of working conditions.
  - o Highest air flow stability both in case of transitional disturbances or progressive filter clogging.
  - o Semi-automatic fumigation cycle (EN12297 tested and certified).
  - o Semi-automatic UV light cycle.
  - o Continuous monitoring of front barrier air flow for the highest operator safety.
  - o Low barrier alarm.
  - o Power failure alarm.
  - o Data logging option.
- Volt-free contact for remote control of exhaust fan.
- Automatic reset of initial conditions in case of power failure.
- C-shaped support stand for the easiest one man installation procedure.

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 internal surfaces with 2B finishing (including spillage tray). Solid work surface (3 sections) and special designed front grill.
- Electrically operated multilayer safety glass window with swing-out system for internal cleaning (up to 120°).
- Comfortable 195 mm front opening.
- Comfortablel side windows series available (S@femate Vision).
- Exposed exhaust HEPA filter for easy visual integrity check.
- HEPA H14 class High Efficiency Particulate Air filters with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified].

S@femate® 1.2

- Main Filter is equipped with a micromesh membrane (diffuser) located downstream which acts as airspeed equalizer expansion plenum, as well as a clear indicator of filter damages.
- 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 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.
- 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. Interlocked 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 ≥ 0.5mt/sec.
- Aperture protection Factor (Apf) ≥ 1.5 x 10^5.
- Cleanability Index CC grade.(EN 12296 tested and certified)
- Light intensity > 1200 lux.
- Noise level ≤ 55 dB(A) 1.2 mt Model (ISO 11201, ISO 4871 and ISO EN 3744 tested and certified)
- Work surface displacement (vibration) <0.005mm RMS between 20Hz and 20,000Hz (ISO 5349 tested and certified)
- 230V / 50Hz; 220-230V / 60Hz version also available.

- Microprocessor equipped with analogical watch dog.
- CE certification according to Machinery Directive 89/392/EEC, 91/368/EEC, 93/44/EEC 93/68/EEC and updates.
- Electronically adjustable stand **S@femove**[it] with continuously adjustable height and three stored positions, for seating or standing work and disabled operators.

Technical Features S@femate® and S@femate® Vision Series

	S@femate 0.9	S@femate 1.2	S@femate 1.5	S@femate 1.8
Work chamber dimensions (WxDxH)	924x600x700 mm	1230x600x700 mm	1530x600x700 mm	1840x600x700 mm
Overall dimensions (WxDxH)	1074x840x1450 mm	1380x840x1450 mm	1685x840x1450 mm	1990x840x14505 mm
Height on stand	2175 mm	2175 mm	2175 mm	2175 mm
Work access opening	195 mm	195 mm	195 mm	195 mm
Weight	160 kg	190 Kg	230 kg	300 Kg
Power supply	230V/50Hz or 220-230V/60Hz	230V/50Hz or 220-230V/60Hz	230V/50Hz or 220-230V/60Hz	230V/50Hz or 220-230V/60Hz
Noise Level	≤55dB (A)	≤55 dB (A)	≤57 dB (A)	≤57 dB (A)
Lighting	≥1200 lux	≥1200 lux	≥1200 lux	≥1200 lux

TopSafe® Series Class I, Class II (Type A2)
Safety you can afford

Features

Class I, Class II (Type A2) models.
State of the art microprocessor control system
Main switch with removable key
Soft touch keyboard
Sloped front and back wall for the most comfortable access and best downflow distribution
Front access for filter maintenance and service
C-shaped support stand for the easiest one man installation procedure
Easy retrofit option kits

TopSafe® series Class I, Class II (Type A2) microbiological safety cabinets are supplied in three different sizes (1.2mt, 1.5mt and 1.8mt).
These last generation Microbiological Safety Cabinets, 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, guarantees the highest performances at the most stringent safety levels, as specified by EN12469:2000.
Certified intrinsic biological safety, combined with impressively competitive prices, gives the end user a state of the art cabinet accessible to every budget, that only experienced European design and accurate quality manufacturing can provide.

TopSafe® Class I and Class II Type A2

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:
  - o Alarms. Multilevel alarms, with redundancy functions.
  - o Permanent display of working conditions.
  - o Highest air flow stability both in case of transitional disturbances or to progressive filter clogging
  - o Continuous monitoring of front barrier air flow for the highest operator safety [Class I and Class II (Type A2)]
  - o Low barrier alarm [Class I and Class II (Type A2)]
  - o 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 the easiest one man installation procedure.
- Anti blow back valve (optional) for Class I or Class II (Type A2) in ducted configuration.

S@fe³ Class III Microbiological Safety Cabinets
Safety you can afford

Features

- 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:
  - o Multilevel alarms, with redundancy functions.
  - o Permanent display of working conditions.
  - o High air flow stability both in case of transitional disturbances or to progressive filter clogging
  - o 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)

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)

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

S@fe³

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 for S@fe3 1.2 an S@fe3 1.8

	S@fe³ 1.2	S@fe³ 1.8
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

Cytostatic Drugs Handling Cabinet

S@femate® Cyto
Cabinet for the preparation of Chemioterapic Antitumoral Drugs

Features

Designed according to DIN12980 and EN12469:2000
State of the art microprocessor control system.
LCD monitor
Air and aerosol-tight sliding sash, with unique "YZY" movement, electrically operated by finger touch
Alarms for low air flow and wrong front window position
Sloped front and back wall for the most comfortable access and best downflow distribution
Front access for tertiary filter stage maintenance and patented Bag-in Bag-out tertiary filter stage changing technology (avoiding rupture of isolation continuity of the work area during filter changing according to KTA 3601 Lüftungstechnische Anlagen in Kernkraftwerken)
Easy retrofit options

Cytotoxic drugs are therapeutic agents intended for, but not limited to, the treatment of cancer. These drugs are known to be highly toxic to cells, mainly through their action on cell reproduction. Many have proved to be carcinogens, mutagens or teratogens. Cytotoxic drugs are increasingly being used in a variety of healthcare settings, laboratories and veterinary clinics for the treatment of cancer and other medical conditions such as rheumatoid arthritis, multiple sclerosis and auto-immune disorders.
Health effects attributed to exposure to occupational cytotoxic drugs can be very serious. Research shows that where a high standard of risk control is in place, threats to healthcare are reduced.
No exposure limits are set for cytotoxic drugs. Medical opinion is such that even low-level exposure to cytotoxic drugs should be avoided as much as possible. Research has shown that the implementation of suitable safety precautions reduces the incidence of adverse health effects. EuroClone cytotoxic drugs handling Cabinet S@femate® Cyto, has been designed according to DIN12980 and EN12469:2000 standards and provides the laboratory technician with the maximum level of safety against inhalation of aerosols generated during the reconstitution protocols.

Main specifications
These last generation Cytotoxic drug handling Cabinets have been designed according with the most stringent safety standards for this category of Safety Cabinets (DIN12980, EN12469:2000).
The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the very accurate manufacturing, guarantees the highest performances at the most stringent safety levels, as specified by DIN 12980 and EN12469:2000 standard.
Certified intrinsic safety, combined with impressively competitive prices, gives the end user a state of the art cabinet accessible to every budget, that only experienced European design and accurate quality manufacturing, can provide.
Other than the two classic HEPA H14 filters needed for the filtration of exhausted air and downflow recirculating unidirectional airflow, a tertiary filtration stage (with Bag-in Bag-out filter changing protocol according to KTA 3601 Lüftungstechnische Anlagen in Kernkraftwerken) is located underneath the work surface in order to provide, by filtering 100% of the recirculated airflow, the required safety for the maintenance personnel when removing this stage of filtration for substitution.

Four levels of safety are therefore provided:
1. Safety for the operator, (extremely high Aperture protection factor) identical to the one provided by a Microbiological Safety Cabinet.
2. Safety for the environment (HEPA H14 filtration stage in the exhaust).
3. Safety for the product and between products (class 100 - ISO 5 in the work area).
4. Safety for the engineers when changing the tertiary filter stage (PATENTED Bag-in Bag-out procedure).

Technical specifications
- Microprocessor controlled motor blower, with volumetric sensor for exhausted air flow monitoring.
- State of the art Microprocessor control system offering:
  - o LCD monitor.
  - o Automatic control of preset airflow volumes.
  - o Sliding sash window with unique "YZY" movement.
  - o Permanent monitoring of HEPA filters life span.
  - o Alarms. Multilevel alarms, with redundancy functions.
  - o Permanent display of working conditions.
  - o Highest air flow stability both in case of transitional disturbances or to progressive filter clogging
  - o Semi-automatic fumigation cycle (EN12297 tested and certified)
  - o Continuous monitoring of front barrier air flow for the highest operator safety
  - o Low barrier alarm
  - o Power failure alarm
  - o Data logging option
- Volt-free contact for remote monitoring of exhaust fan.
- Automatic reset of initial conditions in case of power failure.

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 internal surfaces with 2B finishing (including spillage tray). Solid work surface (2 sections) and special designed front grill.
- Electrically operated multilayer safety glass window with swing up system for internal face cleaning (up to 120°).
- Comfortable 195 mm front opening.
- Back wall monitor application available as option.
- Exposed exhaust HEPA filter for easy visual integrity check.
- Three stages of HEPA H14 class High Efficiency Particulate Air filters with 99.995% efficiency on 0.1-0.2µm (MPPS) [EN1822-1 tested and certified].
- Filter change and maintenance from the front of the cabinet for all stage of filters.
- PATENTED Bag-in Bag-out tertiary filter stage changing technology (avoiding rupture of isolation continuity of the work area during filter changing according to KTA 3601 Lüftungstechnische Anlagen in Kernkraftwerken).
- Exhaust transitions easily installable.
- 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.
- Exhaust and recirculating flow rates ensure 25 air changes/min in the working area (30% 70% split).
- Front barrier air speed ≥ 0.5mt/sec.
- Aperture protection Factor (Apf) ≥ 1.5 x 10^5
- Light intensity > 1200 lux.
- Noise level ≤ 55dB(A) (ISO 11201, ISO 4871 and ISO EN 3744 tested and certified).
- Work surface displacement (vibration) <0.005mm RMS between 20Hz and 20,000Hz (ISO 5349 tested and certified).
- 230V/50Hz; 220-230V/60 Hz version also available.
- Microprocessor equipped with analogical watch dog.
- CE certification according to Machinery Directive 89/392/EEC, 91/368/EEC, 93/44/EEC 93/68/EEC and updates.
- Shipped in two parts (two pallets).

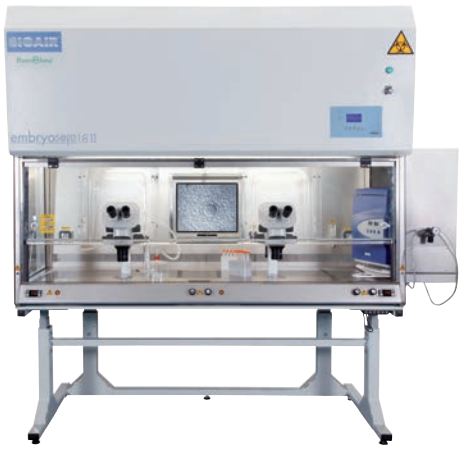
Technical Features S@femate® Cyto

	S@femate Cyto 0.9	S@femate Cyto 1.2	S@femate Cyto 1.8
Work chamber dimensions (WxDxH)	924x600x700mm	1230x600x700 mm	1830x600x700 mm
Overall dimensions (WxDxH)	1074x840x2220mm	1380x840x2220 mm	1990x840x2220 mm
Work access opening	195 mm	195 mm	195 mm
Weight	310 kg	340 Kg	450 Kg
Power supply	230V/50Hz or 220-230V/60Hz	230V/50Hz or 220-230V/60Hz	230V/50Hz or 220-230V/60Hz
Noise Level	≤55dB (A)	≤55 dB (A)	≤57 dB (A)
Lighting	≥1200 lux	≥1200 lux	≥1200 lux

IVF Workstation

Embryos@fe II Series

Embryos@fe II are IVF workstations designed to provide a high retention efficiency as defined by the European Standard for Class II Microbiological Safety Cabinets (EN 12469:2000). They are equipped with two HEPA H14 Class Filters with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified] and provide partial recirculation (70% re-circulates through main HEPA H14 filter; 30% exhausts through the exhaust HEPA H14 filter) to ensure Product, Operator and Environment protection.
They also guarantee ISO 5 (according to ISO 14644-1 Standard) / Class 100 (according to FED Std 209 E) working environment cleanliness.
Microprocessor controlled vane anemometer continuously monitors the cabinet airflows to ensure a front barrier air speed > 0.5 m/s and an average down flow speed of 0,4 m/s.



Main specifications

- Choice of microscopes to be fitted (please check with your local dealer).
- Positioning of microscopes on left side or right side (or both in 1.8 size, if required).
- Internal Chamber and work surface completely made in AISI 304 stainless steel with 2B finishing for the easy cleaning and sanitation.
- 6 mm safety glass front sash and lateral sides offer great luminosity and cleanability.
- ThermoHeat Technology - based heated built-in work surface(s).
  - o ThermoHeat Technology is EuroClone exclusive heating technology based on an inert polymer heating matrix derived from aerospace applications.
  - o It ensures uniform heating without thermal shocks and overshooting even when colder items are placed on the warm area.
  - o A redundant system of temperature sensors in conjunction with a specifically developed control unit based on PID (Proportional Integral Derivative) self-tuning technology offers optimized and extremely accurate temperature controlled performances of the heated work surfaces.
  - o The heated area is clearly marked to ensure the most comfortable working conditions.
  - o Based on ThermoHeat Technology with PID control unit, the built-in heated glass stage offers stable temperature conditions for the embryos also during microscope observation.
- Gassing Flowmeter(s) [number and placement depends on type of workstation].
- Electrical Socket(s) [number and placement depends on type of workstation].
- Main Control Board:
  - o High resolution LCD display
  - o Permanent display of working conditions
  - o Continuous monitoring of front barrier airflow for the highest operator safety
  - o Multilevel Alarms (visual and acoustic) with redundancy functions
  - o Permanent Monitoring of HEPA H14 filters life span
  - o Fully automatic UV-Light Cycle programming and control (if UV light installed)
  - o Main switch for warming surface(s)/glass sample stage(s).
  - o Fluorescent lamp main switch.
  - o Electrical socket(s) main switch.
- Integrated LCD Monitor:
  - o 19" LCD Monitor built-in on the back wall of the cabinet and protected by an easily cleanable safety glare-free glass cover.
  - o Monitor housing is designed to avoid any airflow disturbance.
  - o Offers connectivity to microscope camera(s) (number of cameras depends on workstation type) and / or external PC (via USB ports).

Technical Features

	Embryos@fe II 1.2	Embryos@fe II 1.8
Workplaces	1	1 or 2
Microscopes	1	1 or 2
Heated Built-in Work Surface and Glass Sample Stage (ThermoHeat Technology)	1	1 or 2
Overall Dimensions (WxDxH)	1380x860x1450 mm	1990x840x1450 mm
Internal Dimensions (WxDxH)	1320x650x730 mm	1930x650x730
Noise Level	≤ 57 d(B)A (*)	≤ 57 d(B)A (*)
Lighting	> 1200 Lux	> 1200 Lux

(*) Measured according to EN12469:2000 Standard

Embryos@fe 100

Vertical Laminar Air Flow Recirculating Series (only for product protection) for ART Techniques also available.

Laminar Flow Cabinets
Down-flow cabinets

AURA VERTICAL S.D.4™ Series
Quality with a flair of tradition

Features

Vertical laminar air flow cabinet.
Sliding Sash front window
HEPA H14 filter with micromesh downstream equalising plenum for the highest airflow speed uniformity
HEPA H14 Exhaust filer
Side glass walls
Soft touch keys

AURA VERTICAL S.D.4™ Cabinets are supplied in one dimension (1.2mt). These state of the art down-flow cabinets, provide an ultimate cleanliness Class 100-ISO 5 work area where the highest safety for the products is achieved.
The internal design, the air flow aerodynamics and monitoring, the special HEPA H14 filter with Micromesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort.
This unit works on a recirculating mode with air being filtered by an HEPA H14 class High Efficiency Particulate Air filters guaranteed with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified], before entering the work area at a speed of 0.45 m/s; this ensures a Class 100-ISO 5 environment throughout the work area.
Air coming through the front aperture is then mixed with the downflow air, without affecting the product, and recirculated.
70% of the air is returned to the working area through the main HEPA filter and 30% is exhausted into the environment through an exhaust HEPA filter. This ensures double protection both for the product and for the operator even if this cabinet should not be used for handling pathogens.
The special sloped front design and the sliding sash ensure comfortable working position and, when needed, a very easy opening and closing of the front window.
A complete and user friendly tool for the protection of highly sensitive products that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.

Main specifications

- Ergonomically designed sloped front design for the highest operational comfort. with manually operated sliding sash. Unique x/y sliding sash. The sash has three pre-set positions:
  - o Fully open
  - o Standard working height
  - o Closed: air- and aerosol- tight
  - o Stainless Steel internal surfaces with 2B finishing (including spillage tray). Perforated work surface (2 sections) and special designed front grill.
- Tempered safety glass side walls for the best visibility and lightning.
- Comfortable 190mm front opening.
- Easy to install retrofit options through lateral sides.
- HEPA H14 class High Efficiency Particulate Air filters guaranteed with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified].
- Exposed exhaust HEPA filter for easy visual integrity check.
- Exhaust and recirculating flow rates ensure 25 air changes/min in the working area (30% 70% split).
- Front barrier air speed ≥ 0.5mt/sec.
- Electrical equipment according to International Standards and EMC directives.
- 230V / 50Hz; 220-230V / 60Hz version also available.
- Elapsed time meter for filter life monitoring.
- Light intensity › 1200 lux.
- Soft touch keys on the control panel provide control of the lighting, motor blower, UV light, gas valve.
- Visible and acoustic alarms are provided for air speed alarm and filter clogging.
- Cabinet outer surfaces made of cold rolled steel with paint finish. Glass.
- Working surface made of grade 3 stainless steel (ASI 304). Pre-punched holes for the easy installation of retrofit options.
- Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution.
- CE marked.
- Silent and quite operation <57dB(A).

Technical Features

Work chamber dimensions (wxdxh)	1240 x 485 x 650 mm
Overall dimensions (wxdxh)	1355 x 785 x 1457 mm
Height on stand	2290 mm
Work access opening	190 mm
Weight	175 kg
Power supply	230V / 50Hz or 220-230V / 60Hz
Noise level	< 57 dB (A)
Lighting	> 1200 lux

AURA Mini™ Series
When the space is at a premium

Features

Compact, vertical laminar air flow cabinet
Reduced size for the easiest installation in small or crowded labs
Easily convertible inward or outward barrier operating modes
Hinged front panel and side panels in tempered glass
HEPA H14 downflow filter
Filtrete® exhaust/pre filter
Active PCR version
Silent and quite operation <52dB(A)

AURA Mini™ Cabinets are supplied in one compact size only (895mm).
These state of the art compact down-flow cabinets, provide an ultimate cleanliness Class 100-ISO5 work area where the highest safety for the products is achieved.
The internal design, the air flow aerodynamics, the special HEPA H14 filter and the Filtrete® exhaust filter (or prefilters) guarantees the highest performances at the most stringent safety levels and operator comfort.
Two operating modes are available: inward air barrier and outward air barrier.
INWARD air barrier. In this configuration an air barrier flows through the front opening and is recirculated with the downflow air by a motor blower. 70% of the air is returned to the work area through the main HEPA filter and 30% is exhausted into the environment through a Filtrete® exhaust filter with gravimetric efficiency of 99% on 3µm particles. In this configuration an excellent product protection is ensured, as well as an outstanding containment.
OUTWARD air barrier. In this case the air is sucked through the Filtrete® prefilter, mixed with the incoming recirculating air and then filtered through the main HEPA filter into the work area: here 30% of the air is exhausted through the front opening and 70% is recirculated. This configuration ensures the highest product protection.
In the INWARD configuration this unit can easily be used as an "active PCR" cabinet for DNA carry over blocking.
AURA Mini™ is a complete and user friendly tool for the protection of highly sensitive products that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.

Main specifications

- Centrifugal Motorblower.
- Soft-touch keys on the control panel provide control of fan and lighting.
- Elapsed time-meter for HEPA filter.
- Exhaust filter.
- Removable perforated work surface and back wall of the work chamber made of AISI 304 stainless steel.
- Cabinet outer surfaces made of cold rolled steel with paint finish.
- Front and side panels in tempered glass.
- HEPA H14 class High Efficiency Particulate Air filters guaranteed with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified].
- Exhaust filter (or pre-filter) type Filtrete® with a gravimetric efficiency higher than 99% on 3µm particles.
- Standard features includes: Fluorescent lamp, elapsed Time meter, UV and fluorescent lamps interconnected.
- Electrical equipment according to International Standards and EMC directives.
- Soft touch keys on the control panel provide control of the lighting, motor blower, UV light.
- Light intensity › 1200 lux.
- Silent and quite operation <52dB(A).
- CE Marked.

Technical Features

Work chamber dimensions (WxDXH)	750 x 430x 480 mm
Overall dimensions (WxDXH)	820x 590 x 815 mm
Height on stand	1620 mm
Work access opening	180 mm
Weight	55 kg
Power supply	230V / 50Hz or 220-230V / 60Hz
Noise level	< 52 dB (A)
Lighting	>1200 lux

Cross-flow cabinets

AURA HZ™ Series
Quality with a flair of tradition

Features

Horizontal laminar air flow cabinet
Last generation Microprocessor control
Automatic airflow monitoring
Reduced air flow switch
HEPA H14 filter with micromesh downstream equalising plenum for the highest airflow speed uniformity
Micromesh foil for maximum eye comfort.
Side glass walls with Lateral Flow Concept (LFC) assembly.
Silent and quite operation <57dB(A)

AURA HZ™ Cabinets are supplied in two different sizes (1.2mt and 1.8mt). These state of the art cross-flow cabinets, provide an ultimate cleanliness Class 100-ISO5 work area where the highest safety for the products is achieved.
The internal design, the air flow aerodynamics and monitoring, the special HEPA H14 filter with Micromesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort.
A complete and user friendly tool for the protection of highly sensitive products that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.

Main specifications

- Automatic air control: AURA HZ is a horizontal laminar air flow cabinet, Class 100-ISO5, for product protection from external contamination and cross-contamination inside the working chamber. The air speed is, for the highest product safety, permanently controlled.
- Lateral Flow Concept side walls: special tempered-glass side walls are installed inside the air flow, to prevent any leakage from the outside, thanks to the Venturi-effect.
- Operating mode: the air flow, leaving the HEPA filter at a constant speed, produces an extremely clean - better than Class 100 - environment in the work area, preventing any contamination to enter from the ambient outside.
- High efficiency washable polyurethane prefilters remove coarse particles before the air reaches the HEPA H14 filter.
- HEPA H14 class High Efficiency Particulate Air filters guaranteed with 99.995% overall collection efficiency on 0.1-0.2 µm (MPPS) [EN1822-1 tested and certified].
- Electrical equipment according to International Standards and EMC directives.
- Light intensity › 1000 lux.
- Electronic control air speed.
- The average volumetric air flow is monitored via a integral vane anemometer and controlled by a microprocessor. Average speed is maintained in the range of 0.45m/sec ± 20%.
- A bar graph displays the air speed value. High or low airflows are shown in red.
- Soft touch keys on the control panel provide control of the lighting, motor blower, UV light.
- Visible and acoustic alarms are provided for air speed alarm and filter clogging.
- Cabinet outer surfaces made of cold rolled steel with paint finish.
- Working surface made of grade 3 stainless steel (AISI 304). Pre-punched holes for the easy installation of retrofit options.
- Side panels in tempered glass.
- Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution.
- CE marked.
- Silent and quite operation <57dB(A).
- Washable Prefilters with Gravimetric Efficiency of 99% on 3µm particles.

Technical Features

	Aura HZ 48	Aura HZ 72
Work chamber dimensions (WxDxH)	1130x620x740mm	1790x620x740 mm
Overall dimensions (WxDxH)	1270x1050x1360mm	1920x1050x1360 mm
Height on stand	2123 mm	2123mm
Weight	130 kg	195 kg
Power supply	230V / 50Hz or 220-230V / 60Hz	230V / 50Hz or 220-230V / 60Hz
Noise level	< 57 dB(A)	< 59 dB (A)
Lighting	> 1000 lux	> 1000 lux

PCR Cabinet
DNA carry-over blocking cabinets

AURA PCR™

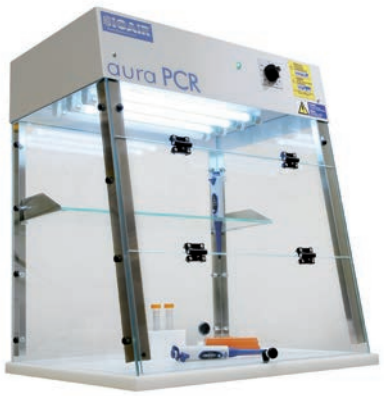
Features

Passive (non-ventilated) PCR cabinet
Automatic switching from UV-neutralising mode to operational mode (fluorescent light)
Easy to use 60 min timer with 1 min intervals
Fully transparent work chamber, (robust and safe 6mm tempered glass)
100% UV-safe work chamber
3-sectors hinged front window
Internal hinged glass shelf for higher comfort and maximum space availability
Polyethylene work surface for the highest chemical resistance
Manufactured and tested according to machine directives 89/392EC, 89/336EC and EN61010-1

AURA PCR™ Cabinets are supplied in one size only (width 650mm).
These state of the art PCR cabinets are specially designed for pre-amplification sample preparation in controlled environment in order to prevent DNA carry-over. Any aerosol generated during the handling of the post amplification samples can not enter the cupboard; any molecule of DNA herein contained is subsequently neutralised with the help of UV radiations.
Operating mode: AURA PCR is a very easy-to-operate cabinet. When the normal working procedures have been completed, the tempered glass front panel is closed and a timer is activated in order to expose all internal surfaces and tools to UV radiation for a preset period of time. The outer tempered glass body of AURA PCR, acting as a filter to UV radiations is safely protecting the external environment from dangerous exposure of personnel to those radiations.
The PCR cabinet complies with machine directives 89/392EC, which include the electromagnetic compatibility "EMC" according to 89/336EC.
The cabinet also complies with safety requirements for electrical equipment for laboratory use as per EN 61010-1.
A complete and user friendly tool for the protection of highly sensitive procedures that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.

Main specifications

- AURA PCR is a DNA carry-over blocking cabinet, preventing cross-contamination inside the working
- Chamber and for the neutralisation of DNA fragments contained in aerosols herein generated
- Operating mode: at the end of the procedure, the operator will close the front window
- Automatically starting the UV-neutralising mode. When the pre-set neutralisation cycle has been completed the timer will automatically start the operational-mode (fluorescent light)
- Electrical equipment according to International Standards and EMC directives
- Lighting › 800 lux
- Cabinet upper part made of painted steel
- Working surface made of polyethylene
- Side panels made of tempered glass (6mm thick)
- CE marked



Technical Features

Work chamber dimensions (WxDxH)	622x508x600 mm
Overall dimensions (WxDxH)	650x545x730 mm
Work access opening	Up to 415 mm
Weight	25 kg
Power supply	230V / 50Hz or 220-230V / 60Hz
Lighting	> 800 lux
Uv tubes	3x15W

Recirculating Fume Cupboards
Plug&work fume cupboards

Safehood® Series

Features

Maximum energy saving on laboratory air conditioning
Smooth operating sliding sash glass window offers easy access to the work area.
Extra large activated carbon filters with optimised granularity for the highest chemical specificity
Microprocessor controlled airflow
Large choice of specific application activated carbon filters

Safehood® is a recirculating fume cupboard with activated carbon filters for the removal of a variety of toxic fumes, gases or vapours from the exhausted air.
Working with volatile toxic substances is not a problem when using a Safehood® ductless work station. No cumbersome installation needed and minimum space requirements makes Safehood® the easiest way to solve your safety problems when handling toxic chemicals. The quality and extensive range of EuroClone activated carbon filters will help you to find the right solution for all your safety requirements.
The high quality of the components and the accurate design ensures years of trouble free operation.
Safehood® main applications are for the protection of operator and environment when:

- Handling chemical substances in the laboratory.
- Sample preparation for anathomo-pathology.
- Rigid or flexible endoscopes decontamination.
- Handling of adhesives and solvents.
- Handling of airborne powders and chemical aerosols.
- Working with volatile toxic substances is not a problem when using a Safehood ductless work station. No cumbersome installation needed and minimum space requirements makes Safehood the easiest way to solve your safety problems when handling toxic chemicals. The quality and extensive range of EuroClone activated carbon filters will help you to find the right solution for all your safety requirements. This Plug&Work ready to use ductless fume cupboard provides the maximum level of operator and environmental protection from chemical contaminants, without exhaust ducting.
- Maximum energy saving on laboratory air conditioning (no heated or cooled air will require venting from you lab)
- No influence on the balancing and control of the air pressure levels of your laboratory.
- Expensive ductworks in not required.
- The high quality activated carbon filters provide both maximum efficiency to the specific contaminants, with the longest life span.

Main specifications

- COMFORTABLE
  - o Smooth operating sliding sash glass window offers easy access to the work area.
  - o The glass side walls offer excellent visibility and ease of cleaning.
  - o Choice of polypropylene, ceramic or Stainless Steel work surface with liquid containment.
  - o Integral fluorescent lighting.
  - o Extremely low noise level induction fan.

- SAFE
  - o Manufactured in accordance with BS7258 and BS7989 and in conformity with COSHH requirements and guidelines and AFNOR NFX158211, ETRAF type 1 and 2.
  - o Highest containment factor provided by the most sophisticated microprocessor controlled air speed regulation that maintains barrier average velocity of 0,5 m/sec, which is independent from the sliding sash.
  - o Visual and acoustic alarm for low barrier speed window position.
  - o All electrical components are isolated from the air flow.
  - o Optional exhaust safety filter.
  - o Safety slot(s) on the front panel for visual filter(s) identification (in according with European safety regulation).

- EFFICIENT
  - o Extra large activated carbon filters with optimised granularity for the highest chemical specificity and efficiency. Maximum weight (12kg),maximum residence time (110mm height).
  - o Large choice of specific application filters.
  - o Front window aerodynamically designed to ensure minimum turbulence whilst providing maximum containment.
  - o Reduced speed function for standby application.
- USER-FRIENDLY
  - o Ready to use: Just place the cabinet on a bench or on the optional support stand and plug into a standard domestic mains socket .No need for calibration or expensive ductworks.
  - o Prefilters provided as standard, easily removable from inside of the cabinet providing the highest operator safety.

Technical features

	Safehood 75	Safehood 120	Safehood 165
Work chamber dimension (WxDxH)	670x550x600 mm	1120x550x600 mm	1570x550x600 mm
Overall dimension (WxDxH)	750x720x1200 mm	1200x720x1200 mm	1650x720x1200 mm
Height on stand	2030 mm	2030 mm	2030 mm
Work access opening	Up to 630 mm	Up to 630 mm	Up to 630 mm
Weight (filters excluded)	95 kg	130 kg	180 kg
Power Supply	230V / 50Hz or 220-230V / 60Hz	230V / 50Hz or 220-230V / 60Hz	230V / 50Hz or 220-230V / 60Hz
Lighting	>800 lux	>800 lux	>800 lux
Main filter 12 kg (qty)	1	2	3
Exhaust safety filter 4kg (qty)	1	2	3
Prefilters (qty)	1	2	3

2. Lab Equipment

- CO_2 Incubator

S@FEGROW

The New EuroClone S@feGrow 188 Direct Heat CO_2 Incubator, equipped with an "on-demand" decontamination cycle, is designed to provide a stable and convenient environment for Cell and Tissue culture, taking into consideration the most stringent needs of the cell biologists, for both continuous and batch cultures. The S@feGrow 188 maintains an accurate CO_2 gas percentage, uniform temperature and a consistently high level of humidity providing a stable culturing environment, even for most critical applications like IVF and Hybridoma cultures.

Best in its class: large usable capacity and maximum space for your cultures
At the very heart of the S@feGrow 188 CO_2 incubator is the large internal capacity of 188.6 litres, corresponding to an actual available space of 140 litres, unmatched in the industry, thanks to a specially designed rack and 4 shelves system that provides a usable surface of 0.23 sqm per shelf.

Best in its class: culturing environment guaranteed
The accurate and precise temperature is maintained by means of 4 independently controlled and validated "Direct Heating" elements, located on all 6 sides of the chamber, able to measure and control temperature down to 0.1 degree of the set value. Precise CO_2 percentage is maintained by a state-of-the-art IR sensor and controller system, that is independent from the humidity of the culturing environment. Humidity is passively maintained at 95% , thanks to a 2.5 litres stainless steel humidity tray, heated by the base heater. Finally, the unit has a built-in "on-demand" decontamination cycle programme, for absolute safety.

Precise control and recovery of set temperature
The accurate and precise temperature is maintained by means of a 4 sections independently controlled and validated Direct Heater system. A total of 73 meters of heating elements ensure even heating of all internal surfaces (chamber, front frame and door inner side); on top of this, a seven RT curve matched thermistors control system can measure and control temperature within to 0.1°C of the set value. Over-temperature protection is independent of the controls and inhibits all heaters when the temperature raises by 1 degree above the programmed value. The recovery of set temperature, after 15 seconds door opening, occurs within 5 minutes, thus protecting cultures against thermal shocks.

Precise control and recovery of set CO_2 percentage
The CO_2 percentage is maintained within the chamber, thanks to a state-of-the-art controller, with a solid state infrared sensor with atmospheric auto zeroing of CO_2. Mixing of air with inlet CO_2 gas is gently achieved, thanks to the complete absence of a forced air fan circulation system, enhancing a fast recovery of set CO_2 percentage within 5 minutes, following a 15 seconds long door opening.

Fully automatic 12 hours decontamination cycle
A fully tested "on demand" automatic decontamination cycle, heating up to 125°C, is a standard feature assuring your peace of mind when you start your culturing cycle. The beauty of the system is that there is no need to remove any parts or fixtures whatsoever. The total decontamination cycle is run overnight, with a 1.5-2.5 hour temperature ramp up time, a 4 hour exposure time and a 5-7 hour temperature ramp down time, totalling between 11-12 hours in average, depending upon the room temperature. At the end of the cycle, normal control of the CO_2 is automatically resumed, and the only action to be performed is the addition of sterile water into the humidity tray before start up.

A number of features designed to ease your work
The direct heated, single door, magnetic closure S@feGrow CO_2 incubator (Italian design) assures to the users an easy and quick access, without any loss of operational stability and performance.

Choosing the double door design, with fully sealed inner glass door and outer heated door, the CO_2 incubator can be equipped with an optional 4 or 8 inner glass door system to give you unmatched choice.
Left opening door option, factory installed, allows for optimal placement of the CO_2 incubator in an expensive and crowded lab space.
Optional multi-position shelf rack set, allows up to 8 shelves to be used, optimizing the area available for culture vessels.
Solid shelves are supplied as standard to provide even surface for the culture vessels however, at no extra cost, the traditional perforated shelves can be supplied.
Fanless construction, with gentlest possible air movement by thermal convection, ensures low contamination risk, simplifies cleaning and decontamination and allows for long life of incubator components.
Seamless, electro-polished, Stainless Steel 304 internal chamber (with fully rounded corners and no internal projections or holes) makes it easy to clean, corrosion resistant and minimize contamination risk.
Large 27.5 mm access port allows user to supply power to small instruments placed on the interior, or allows any other utilities access to the incubator chamber.

Technical Specifications

TEMPERATURE CONTROL	Direct heat, 6 sides, 4 independently controlled heaters, 73 meters of heating elements
Temperature range	10-50° C in 0.1° C increments (minimum setting: ambient + 1° C)
Temperature measurement	Seven RT curve matched thermistors
Temperature control	± 0.1° C
Temperature accuracy	± 0.1° C
Temperature uniformity	Better than ± 0.3° C
Temperature recovery	About 5 minutes following a 15 seconds door opening
Over Temperature protection	Independent, inhibits all heaters above 1.0° C over set temperature value (in the unlikely event of a control system failure)
CO_2 SYSTEM	
Sensor	Solid State IR Sensor, automatic atmospheric CO_2 zeroing. Measurement is independent from chamber humidity level
CO_2 range	0.5 to 20 % CO_2, in steps of 0.1%
CO_2 control	± 0.1% CO_2
Uniformity	Better than ± 0.1 % CO_2
Accuracy	± 0.2% at 5% CO_2 set point
Recovery rate	About 5 minutes following a 15 seconds door opening
RELATIVE HUMIDITY SYSTEM	
Reservoir	2.5 litres, 304 Stainless Steel electro-polished humidity tray
RH level	Minimum 95% (adjustable in a small range through base heater setting)
DECONTAMINATION CYCLE	
Decontamination cycle type	Fully automatic, 125° C cycle, Validated
Temperature ramp up time	1.5- 2.5 hours
Exposure time	4 hours
Temperature ramp down time	5-7 hours
Total cycle time	10.5 to 13.5 hours
CONSTRUCTION	
Inner Chamber	304 Stainless Steel, totally seamless, electro-polished
Chamber volume (gross /usable)	188.6 litres/140 litres
Internal Dimensions (W x H x D) mm	530 x 690 x 500
External Dimensions (W x H x D) mm	680 x 896 x 746
Exterior	Powder painted mild steel with ABS plastic outer door cover
Interior access	Heated outer door with direct chamber access or sealed inner glass door (with optional 4/8 inner glass doors)
Door swing	Right side opening with optional left side door swing (factory fitted)
Net Weight	102 Kg
Packed Weight	135 Kg
SHELVING SYSTEM	
Shelf racks	Easy to assemble , 304 stainless steel construction, with high temperature plastic spacers
Shelf type	Solid (non perforated) stainless steel shelves (perforated available as option)
Shelf dimensions (W x D) mm	510x 455 mm, with 150 mm height above each shelf
Shelf surface area, Sq meter	0.23 m2 (2.76 sq ft)
Capacity: standard - maximum	4-8 shelves
ALARM SYSTEM	
Chamber status alarm	Fully programmable, audio-visual, auto reset when chamber conditions resume
Incubator function alarm	Fully automatic alarms to advise failure in heaters or sensors
Alarm events Log	Up to 500 alarm events held in memory on a rolling basis, displayed on 2 x 24 display, showing programmed value, actual value, time and duration of alarm event
POWER REQUIREMENTS	
Voltage	220-240 V, 50/60 Hz
Rated Power	1.5 KW
Power to maintain 37° C	< 0.1 kW
EXTERNAL CONNECTIONS	
RS 232 output	Operating conditions, alarms and events data output
RS 232 interface	Standard supply, for remote access
Contact for remote alarm	Volt-free, for wiring to a remote external alarm device or alarm system (BMS)

Code	Description	Pack
CO20000	S@feGrow 188 CO_2 Incubator, 230 Volts, 50/60 Hz -Direct heated single door, right-hand opening, Standard Display	Each
CO20010	S@feGrow 188 CO_2 Incubator, 230 Volts, 50/60 Hz -Sealed glass inner door and heated outer door, right-hand opening, Standard Display	Each
CO20001	S@feGrow 188 CO_2 Incubator, 230 Volts, 50/60 Hz -Direct heated single door, left-hand opening, Standard Display	Each
CO20011	S@feGrow 188 CO_2 Incubator, 230 Volts, 50/60 Hz -Sealed glass inner door and heated outer door, left-hand opening, Standard Display	Each

3. Thermocyclers

peqSTAR

peqSTAR is a high performance range of Thermocyclers with PCR technology designed for the 21st century. The combination of high specification engineering and superior system control enable powerful, fast ramping, stable temperature control and a high level of system reliability. The 'touchscreen' control, USB ports, LAN connection and the universal block for 0.2 ml and 0.5 ml tubes result in unique ease of use. Various interchangeable blocks (96 Wells, 384 Wells, in situ or High Pressure Lid) are available for the peqSTAR Thermocyclers.
The new **peqSTAR 2X** is a double block cycler with two independent operable 48 well blocks offering maximum flexibility in the smallest space. This further development of the well-proven peqSTAR Thermocyclers provides both the best technical specifications and also very simple of use, e.g. the FlexGradient™ Technology, emulation mode, 'peqSTAR Manager' PC software, etc. **One-Personal** offers approved technology and the highest precision for your daily laboratory work. With its small footprint it is a reliable cycler for small sample numbers.

peqSTAR - EuroClone

With its sleek design, the peqSTAR Universal 96, including the universal block system for both 0.2 ml and 0.5 ml tubes, plates and strips, sets the
new standard for thermocycling with unmatched system performance, quality and capabilities.

Features

Wide coloured touchscreen display
High speed: 5 °C/sec
Universal block: 96 x 0.2 ml; 48 x 0.5 ml
Uniformity: +/- 0.25 °C
6 peltier, 6 sensor system
4 USB ports
Network connectivity
Software for Tm and protocols calculation included
GLP report
Real-time visualization of temperatures
PCR licensed

Technical Specifications

Six powerful Peltier elements with Long Life Technology
Six control circuits with PT 1000 thermal probes
Max. heating and cooling rate: 5 °C/s
Block uniformity (at 72 °C): ± 0.25 °C
Temperature range thermoblock: 4 to 105 °C
Regulating accuracy: ± 0.1 °C
Adjustable ramping: 0.1 to 2.0 °C/s
Increment/decrement time: 0:01 to 9:59 minutes
Increment/decrement temperature: 0.1 to 9.9 °C
Temperature range heated lid: 70 to 120 °C
Programmable lid locking
4 x USB, 1 x Ethernet port (MS Windows®)
Dimensions (W x H x D): 29 x 31 x 36 cm
Weight incl. block: 13 kg
Power consumption: 850 VA
Power supply: 90 – 260 V AC, 50 – 60 Hz

Gradient feature (optional)

Maximum Gradient over 12 columns: 39.8°C (± 19.9°C)
Temperature range, gradient: 35-105°C
Gradient accuracy: ± 0.1 °C
Upgradeability on-the-spot

Cat.	Description
EM95-95002	EuroClone peqSTAR 96 Universal
EM95-96002	EuroClone peqSTAR 96 Universal Gradient

peqSTAR 2X - EuroClone

The new peqSTAR 2X double block system with its two independently operable 48 well blocks in one unit is the answer for maximum flexibility for a busy lab.

Features

Outstanding speed, dependable PCR results, easy to use and a construction that will last – all essentials for your hunt for the perfect cycler. The peqSTAR 2X double block system fulfills all these requirements and is loaded with new technology
FlexGradient™ Technology: Perfect linear gradients or independent lane control
Modern user interface with new functions: graphical programming, 'Global Program Ramp', 'Gradient Control', emulation mode etc.
Latest technology for great new features
Remote control and monitoring of instruments via PC software
MP3 signal tones
User calls via email
Master/Slave control of instruments, optionally with wireless operation

Technical Specifications

8 Peltier elements per block with Long Life Technology
8 control circuits per block with PT1000 thermal probes
Maximum heating and cooling rate: 5 °C/s
Block uniformity (at 72 °C): ± 0.2 °C
Regulating accuracy: ± 0.1 °C
Adjustable ramping: 0.1 to 3.0 °C/s (For single steps or the whole protocol)
Increment/decrement time: 0:01 to 9:59 minutes
Increment/decrement temperature: 0.1 to 9.9 °C
Temperature range heated lid: 40 to 120 °C
Programmable lid locking
Internal memory for 500.000 typical PCR protocols in unlimited, selfcreated directories/subfolders
Block capacity:2 universal blocks for 48 x 0.2 ml tubes or 24 x 0.5 ml tubes with flat caps each
4 x USB, 1 x Ethernet port
GLP reports for the continuous recording of all runs
Dimensions (W x H x D):30 x 28 x 38 cm
Weight incl. blocks: 13 kg
Power consumption: 850 VA

Gradient Function

Maximum gradient over 8 rows: 30.0 °C
Temperature range gradient: 35 to 105 °C
FlexGradient™ Technology H
Gradient upgradeability on-the-spot

Cat.	Description
EM95-08002	EuroClone peqSTAR 2X Gradient Thermocyclers

One-Personal

One-Personal is distinguished by efficient run times, excellent PCR performance and easy-to-use operation all in a conveniently compact footprint.

Features

Universal block for up to 25 x 0.2 ml tubes or 13 x 0.5 ml tubes with flat caps
Self-adjusting heated lid
Small footprint (22.5 x 25 x 28 cm)
Immensely flexible programming allowing for Touch-Down and Long-Range PCR
Manufactured in Germany under ISO 9001 and ISO 13485 conditions
Fully licensed for PCR

Technical Specifications

Peltier element with Long Life Technology and PT 1000 high quality thermal probe
Temperature range: 4 to 105 °C
Regulating accuracy: ± 0.1 °C
Block uniformity (at 72 °C): ± 0.7 °C
Heating and cooling rate: 2 °C/s
Max. program number: 90 (with up to 99 steps/program)
Increment/decrement time: 0:01 to 9:59 minutes
Increment/decrement temperature: 0.1 to 9.9 °C
Block capacity:
Universal block for 25 x 0.2 ml tubes or 13 x 0.5 ml tubes with flat caps
Heatable selfadjusting lid
Temperature range heated lid:70 to 120 °C
Interfaces: Centronics (parallel) and RS232 (serial)
GLP report for complete recording of all runs
Dimensions (W x H x D): 22.5 x 25 x 28 cm
Weight incl. block: 6.3 kg
Max. power consumption: 120 VA

Cat.	Description
EM95-4002	EuroClone One-Personal

4. Small Lab Equipment

- Thermomixers
- Photodocumentation
- UV Transilluminators
- Power Supplies
- ELISA Reader

Thermomixers

Dry Bath

EuroClone Dry Bath is a microprocessor-controlled product using advanced thermoelectric technique. This technique allows more stable and accurate temperature control both in the reaction block and in the sample. Optional aluminium blocks are easily replaceable, to hold different types of test tubes. Dry Bath allows to operate also in programmable mode, linking a maximum of five different temperature steps.

Features

User friendly LCD display.
Simultaneous display of set and real time and temperature.
Versatile and easy to use, meets all experimental requirements. Easy to clean and sanitise.
Customized blocks are available on request to suit specific demands.
Reliable design with internal extra temperature protection.
Temperature deflection adjusting meets all demands.
Microprocessor-controlled incubation time and temperature.
End of cycle beep-signal.

Technical Specifications

Temperature Range	- 10° C ~ 100° C
Timer	1 min ~ 99 h 59 min
Temperature Accuracy	< ± 0.3° C
Display Accuracy	0.1° C
Heating rate	< 20 min (from 20° C to 100° C)
Cooling rate (*)	< 30 min (from 20° C to - 10° C)
Heating and cooling elements	Peltier modules
Dimensions (W x D x H)	300 x 220 x 170 mm
Weight (with block)	5 Kg
Power Supply	230 V 50 Hz
Available blocks	See "EC Block" table

(*) The instruments reach - 10° C if T ambient is < than 25° C

Cat. n°	Description
EMK20	EuroClone Dry Bath - Digital Dry Bath range T - 10 to 100° C - EC block for tubes not included

T-Shaker Thermomixers

Designed for simultaneous heating and mixing of small samples, T-Shakers are supplied with interchangeable platforms for microtubes. Mixing and heating modes can be used both simultaneously and independently, i.e. the device can work as a shaker and as a thermostat. EMC100 Model controls temperature below ambient, reaching the value of 0° C.EMC100 Model allows to operate also in programmable mode, linking a maximum of five different temperature steps.

Features

LCD display. Easy to setup and use.
Accurately controls and displays time, temperature and speed.
Over heating protection device ensures safety & reliability.
Temperature can be calibrated to meet user needs.
Silent operation, even below 1.500 rpm.
Custom blocks are available to satisfy experimental requirements.
Gentle, reliable mixing with long-life direct current motor.

Cat. n°.	Description
EMSC100	EuroClone T-Shaker Cool - Thermoshaker range T 0 - 100° C - EC block for tubes not included
EMS100	EuroClone T-Shaker Ambient - Thermoshaker range T RT + 5 - 100° C - EC block for tubes not included

Technical Specifications

	EMS100	EMSC100
Temperature Range	Ambient + 5° C ~ 100° C	0° C ~ 100° C (*)
Timer	1 min ~ 99 h 59 min	1 min ~ 99 h 59 min
Temperature Accuracy	< ± 0.5° C	< ± 0.5° C
Display Accuracy	0.1° C	0.1° C
Mixing speed	200 - 1500 rpm	200 - 1500 rpm
Amplitude	2 mm	2 mm
Heating rate	< 15min (from 20° C to 100° C)	< 15min (from 20° C to 100° C)
Cooling rate (*)		< 30 min from T amb. to (T amb. - 20° C)
Heating and cooling elements		Peltier modules
Dimensions (W x D x H)	300 x 220 x 170 mm	300 x 220 x 170 mm
Weight (with block)	7 Kg	8.5 Kg
Power Supply	230 V 50 Hz	230 V 50 Hz
Available blocks	See "EC Block" table	See "EC Block" table

(*) If T ambient is < 20° C; 4° C ~ 100° C if T ambient is < 25° C; 10° C ~ 100° C if T ambient is < 30° C

Photodocumentation

GellyDoc Imaging Systems

GellyDoc is a compact and economic system for basic gel documentation. Images of the gel can be seen through the color LCD screen, pictures are captured with the high resolution digital camera and saved into the memory card or instantly printed on the laboratory quality photo printer included with the system. The camera can be connected to a PC with a USB cable (not included) for transferring images.

Technical Data

DigiCam 60	Color digital camera 10.0 megapixel SD memory card (16 MB minimum) Power cord included (batteries not required)
LCD Screen:	5.6" TFT LCD Monitor with video color High resolution screen Mounted on the GellyDoc hood Connected to the camera for preview of images
Darkroom	UV blocking viewer window Lightweight and compact Handles for easy transport of the hood Fits on top of the transilluminator
Emission Filters	EtBr Red 570-640nm
Transilluminator	The system is designed for use UV Transilluminators with filter sizes not bigger than 21 x 26 cm M-20V and M-26V feature variable intensity settings
Color Printer	300 x 300 resolution 4x6 in. prints USB connectivity 108 prints included Dimensions 7 x 5 x 2.5 in. (178 x 127 x 64 mm)
Combination Lock	3 digit resettable combination 2 ft. cable
Dimensions	17H x 13.25W x 9.5D in. (432 x 337 x 241mm)

Features

DigiCam 60 color camera with 10.0 megapixel resolution
Lightweight, compact hood provides a compact darkroom environment, hood now includes a new UV blocking viewer window that allows the visualization of the gel
LCD screen included
Benchtop UV Transilluminator delivers back-lit UV; select from several benchtop models (dimension equal or lager than 34 x 24 cm)
Color printer generates instant 4" x 6" low cost, laboratory quality color prints
Ethidium bromide filter for fluorescent stained gels included
Combination lock secures the camera to the darkroom

Cat.	Description
EMF010001	GellyDoc
EMF010005	GellyDoc + UV Transilluminator (Cod EM-TCX-26M)

UV Transilluminators

EuroClone has a wide range of UV trasilluminators available either with 8 or 15 Watt lamps with different dimensions even with double wave lenght.

Features

• Long life UV filters: the filters are design to transmit specific ultraviolet rays and to absorb most of the visible light produced by the UV tubes. They provide the maximum UV transmission over their surface. They have an unlimited life expectancy

• Ondulex® high efficiency reflector. Ondulex® is a special polished reflector which provides supreme UV output. The reflector is located behind the UV tubes to reflect the maximum of the light to the outside. The UV intensity of the whole instrument is dramatically increased, as well as its performance

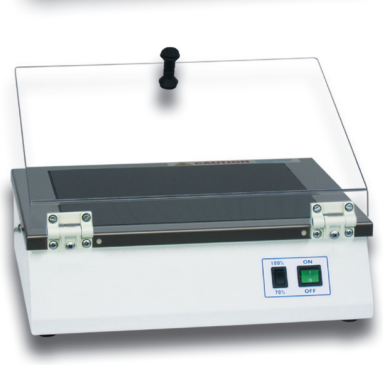
• Protection Transparent Screen

Compact Transilluminators

These transilluminators combine compact footprint and economy for laboratories with budget in mind.
The fully adjustable UV safety screen can be positioned to suit the operator's viewing angle against exposure to harmful UV rays.
The transilluminators are electronically controlled. This reduces the heat and eliminates the flickering effect for gel-documentation.

Features

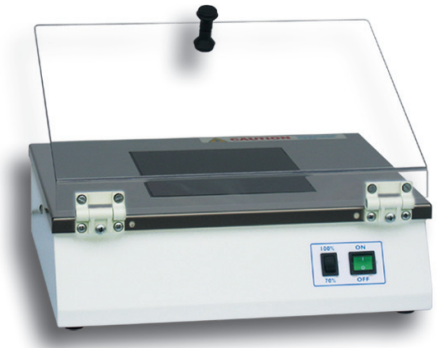
Electronic ballast / Microprocessor controlled
No flickering effect thanks to its 25 KHz high frequency
The same model can be used from 100 to 240 Volt and from 50 to 60 Hz without any intervention
Reduced electrical consumption
Unlimited filter life expectancy for 312 and 365 nm
Dual intensity selector (100%-70%)
Ondulex® reflector
High UV output
Adjustable UV safety screen
Stainless steel frame



Cat.	Description	Dimensions	Tubes
EM-TCX-15M	Compact 15 ,312	15 x 15 cm	6 x 8 Watt
EM-TCX-20M	Compact 20, 312	20 x 20 cm	6 x 8 Watt
EM-TCX-26M	Compact 26, 312	21 x 26 cm	6 x 8 Watt

Photo UV Transilluminators

Photo UV are 15 Watt transilluminators characterized by supreme light stability. With these transilluminators gel visualization and gel documentation is strongly improved.
The transilluminator heat is considerably reduced, avoiding the use of extra cooling fan and thus reducing the noise.
Thanks to its very high UV output, the transilluminator provides more signal compared to a standard 8-watt transilluminator.



Features

- High UV output
- Electronic ballast / Microprocessor controlled
- No flickering effect thanks to its 25 KHz high frequency
- Unnecessary cooling due to the electronic control
- Weight reduction
- The same model can be used from 100 to 240 Volt and from 50 to 60 Hz without any intervention
- Reduced electrical consumption
- Unlimited filter life expectancy for 312 and 365 nm
- Ondulex® reflector
- Adjustable UV safety screen
- Stainless steel frame

Cat.	Description	Dimensions	Tubes
EM-TFX20M	Photo UV 20, 312	20 x 20 cm	6 x 15 Watt
EM-TFX35M	Photo UV 35, 312	20 x 35 cm	6 x 15 Watt

If you need a particular model, variable wave lenght, particular dimension, 254 or 365 nm filters or more details please contact our Customer Support (TSA) e-mail: tsa@euroclone.it

Power Supplies

Mini Pro 300V Power Supply

Combining small size and versatility, the newly redesigned Mini Pro 300V power supply is an ideai choice for any researcher. Capable of providing constant voltage or constant current in 1V or 1 mA steps, the unit is perfectly suited to run both vertical polyacrylamide or horizontal agarose gel electrophoresis experiments. Continuous or timed operation are easily performed using the simple and user-friendly interface. The Mini Pro 300V features 2 electrode pairs, allowing for 2 gels to be run simultaneously, saving both time and valuable bench space. With a universal voltage rating, the Mini Pro 300V is also designed and constructed to the most rigorous safety standards. Packages including single or dual horizontal electrophoresis systems and mini vertical electrophoresis systems are excellent choices for educational or personal use.

Features

- New housing and exterior design
- Constant voltage or constant current operation
- 1V step voltage selection; lmA step current selection
- 400mA maximum current
- 60W maximum power
- Two pairs of outlet terminals
- Timer with alarm function
- Safety device
- Compact size and lightweight
- Competitive pricing choice
- Packages with midi sized horizontal electrophoresis systems and vertical electrophoresis systems

Cat.	Description
EMMINI300	Mini Pro 300V Power Supply

MP 300V Power Supply

MP 300V Power Supply is a microprocessor-controlled Power Supply with full control range of designated current and/or voltage. Its maximum voltage output is up to 300 V and is designed to meet most electrophoresis needs in a personal, single, easy to use unit. MP 300V Power Supply is capable of running horizontal and vertical electrophoresis, and two-dimensional electrophoresis, SDS-PAGE applications. In addition, a timer with alarm function is also equipped in the unit, and so it is pause function.
Furthermore, the powerful specifications plus four pairs of terminators could be used for multi electrophoresis units simultaneously. The design of stackability is another feature to save bench top space.
MP300V Power Supply also provides Constant Voltage or Constant Current to instruments used in electrophoresis.
Four (4) pairs of terminators and the much powerful specification equipped enable the maximum capability of MP 300V Power Supply series compared to other existing similar products on the market.

Features

Output Voltage/Inc	2-300 V/1 V
Output Current/Inc	1-700 mA/1 mA
Max. Watt	150 W
Operating Constants	Voltage or Current
Control	Microprocessor Controller
Terminator Pairs	4 pairs
Timer	1-999 mins with alarm, continuous
Safety Device	No load detect, leakage detect, overload detect, load change dectect, over temperature protection, shrouded plugs and sockets
Crossover	Yes
Operating Temperature	Ambient to 40 °C
Unit Dimension	W 190 x L 275 x H 95 mm
Construction	ABS faceplate and aluminum
Weight	2.5 kg
Rated Voltages	100-240 V

Cat.	Description
EMMP300V	MP 300V Power Supply

MP 500V Power Supply

MP 500V Power Supply is a microprocessor-controlled Power Supply for most electrophoresis needs. MP 500V is a programmable mode, and it is capable of running horizontal and vertical electrophoresis, SDS-PAGE, native PAGE applications, two-dimensional electrophoresis, and electro-blotting. Furthermore, the powerful specifications plus four pairs of terminators can be used for multi electrophoresis units simultaneously. In addition, a timer with alarm function is equipped in the unit, and so is pause function. MP 500V Power Supply provides Constant Voltage or Constant Current or Constant Power used in electrophoresis. 2.6" LCD shows the running/setting condition and also provides a user friendly interface and convenience to the user. Advanced safety design concerns are outstanding features of MP 500V Power Supply.

Features

Output Voltage/Inc	5-500 V/1 V
Output Current/Inc	600 mA /1 mA
Output Watt/Inc	300 W/1 W
Operating Constants	Voltage or Current or Power
Control Microprocessor	Controller
Program Storage	30 programmed files
Program Multi-Step	Up to 6 steps
Terminator Pairs	4 pairs
LCD Display	2.6"
Timer	1-999 mins with alarm, continuous
Safety Device	No load detect, leakage detect, overload detect, load change detect, over voltage detect, over temperature protection, shrouded plugs and sockets
Crossover	Yes
Operating Temperature	Ambient to 40 °C
Unit Dimension	W 190 x L 275 x H 95 mm
Construction	ABS faceplate and aluminum
Weight	2.5 kg
Rate Voltages	100-240 V

Cat.	Description
EMMP500V	MP 500V Power Supply

MP 3AP Power Supply

MP 3AP Power Supply is considered as one of the most powerful Power Suppy on the market. It is a microprocessor- controlled Power Supply that can be used for most electrophoresis needs. MP 3AP is also a programmable mode, and it is capable of running horizontal and vertical electrophoresis, SDS-PAGE, native PAGE applications, two-dimensional electrophoresis, and electro-blotting. Furthermore, the powerful specifications plus four pairs of terminator can be used for multi electrophoresis units simultaneously. In addition, a timer with alarm function is equipped in the unit, and so is pause function. MP 3AP Power Supply provides Constant Voltage or Constant Current or Constant Power used in electrophoresis. 2.6" LCD shows the running/setting condition and also provides a user friendly interface and convenience to the user. Advanced safety design concerns are outstanding features of MP 3AP.

Features

Output Voltage/Inc	5-300 V/1 V
Output Current/Inc	10-3000 mA/1 mA
Output Watt/Inc	300 W/ 1W
Operating Constants	Voltage/current/power
Control	Microprocessor Controller
Program Storage	30 programmed files
Program Multi-Step	Up to 6 steps
Terminator Pairs	4 pairs
LCD Display	2.6"
Timer	1-999 mins with alarm, continuous
Safety Device	No load detect, leakage detect, overload detect, load change detect, over voltage detect, over temperature protection, shrouded plugs and sockets
Crossover	Yes
Operating Temperature	Ambient to 40 °C
Unit Dimension	W 190 x L 275 x H 95 mm
Construction	ABS faceplate and aluminum
Weight	2.5 kg
Rate Voltages	100-240 V

Cat.	Description
EMMP3AP	MP 3AP Power Supply

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EuroClone S.p.A.
Via Figino, 20/22 - 20016 Pero (MI) Italy
✆ +39 02 38195.1 - 🖷 +39 02 38101465
✉ info@euroclone.it - www.euroclone.it

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