

# *MICROBIOLOGICAL SAFETY CABINETS*



## Bio II A Safety Cabinet

- Microbiological Safety Cabinet Class II, TUV certified to EN 12469(3 & 4 ft)
- Noise level 58 dBA
- Two independent blowers and anemometers to control chamber air flow and inlet/exhaust flow
- Exhaust and chamber HEPA filters H-14 of efficiency 99,995 % MPPS (99,999 % DOP)
- Microprocessor control with filter clogging automatic compensation
- Alphanumeric LCD Display of Chamber airflow speed, Exhaust flow/Inlet speed and Chamber temperature
- 3 position key switch for parameter setting protection
- Maintenance menu with: total cabinet running hours, hour count of fans, hour count of U.V. lamp, last filter replacement record
- Alarms, visual and audible :
  - Chamber airflow speed (high/low)
  - Low exhaust/inlet air flow
  - Window out of working position
  - U.V. lamp on
- Epoxy/polyester powder painted steel body
- Stainless steel chamber (AISI 304) equipped with one power socket as standard and including gas tap with safety valve, vacuum/nitrogen valve and U.V. light
- Stainless steel partitioned bench for easy removal and autoclaving
- Light intensity of 900 lumens
- Access for servicing from front
- Laminated safety glass window
- Window internal side accessible for cleaning, gas spring counter balanced front pane
- Only 760 mm total dept
- 1410 mm total height
- Available as 3,4,5,6 ft chamber width (900, 1200, 1500, 1800mm).
- Equipped as standard with UV light, gas tap, vacuum tap, 1 internal socket, closing panel, exhaust closure cover
- Customized on request



### Accessories & Options

Various accessories and options make the unit adaptable to every application. Telstar also offers its expertise to allow customization of each unit with other features and equipment if required.

- Support table
- Motorized support table
- Charcoal filter
- Second exhaust filter
- Anti blow back valve
- Exhaust duct kit
- IV bar
- Fumigation dual boiler



## BioStar Plus Safety Cabinet

BioStar Plus is a certified EN 12469 class II cabinet range for product and operator protection that offers the most advanced features in ergonomics for optimum working conditions. Reclined sash window, filter clogging calculation and simplified fumigation process minimizes maintenance costs and time. On C-Deluxe model, remote PC Ultralogger control suitable for P3 lab.



### Description

- Microbiological Safety Cabinet Class II, TUV certified to EN 12469 (4 & 6 ft)
- Sash window type, manual operation, with predefined working position
- Sloped front allowing comfortable standing at work
- Available with glass or solid side windows
- Fully closed chamber front window position with 100% sealing with silicone gasket
- Stainless steel curved armrest at 30mm above bench level
- Noise level 58 dBA
- 2 blowers and one anemometer to control air flow
- HEPA filters exhaust and chamber H-14 of efficiency 99,995 % MPPS (99,999 % DOP)
- Microprocessor control with filter clogging automatic compensation
- Alphanumerical LCD Display (C-Max) of Chamber airflow speed, Exhaust flow/Inlet speed and Chamber temperature
- Passwords (2 levels: user and service)
- Maintenance menu with: total cabinet running hours, hour count of fans, hour count of U.V. lamp, last filter replacement record, record of alarms
- UV sterilization cycle timer
- Alarms, visual and audible:
  - Chamber airflow speed (high/low)
  - Low exhaust/inlet air flow
  - Window out of working position
  - U.V. lamp on
- Stand by speed (enables chamber lighting)
- Epoxy/polyester powder painted steel body
- Stainless steel chamber (AISI 304) equipped with two power socket as standard and with connections for electrovalves, gas taps and for U.V. light
- Partitioned bench for easy removal and autoclaving
- Light intensity of more than 1000 lumens
- Access for servicing from front
- Window internal side accessible for cleaning without the need of a tool.
- Less than 800 mm total depth
- Less than 1450 mm total height
- Available as 3,4,5,6 ft chamber width (900, 1200, 1500, 1800 mm)
- Customized on request



## BioStar Plus Safety Cabinet (cont..)



### Specific to C-Deluxe control / display (optional)

"Turbo exhaust" function key to increase operator protection  
Large graphic LCD display showing simultaneously:  
Chamber airflow speed  
Exhaust flow  
Inlet speed  
Chamber temperature  
Filter clogging level  
Maintenance follow up record  
Connector for remote PC control with UltraLogger software

### Accessories & Options

Various accessories and options make the unit adaptable to every application. Telstar also offers its expertise to allow customization of each unit with other features and equipment if required.

- UltraLogger cabinet remote PC control software and connection (C Deluxe)
- Window sealing kit
- Support table
- Support table with castors
- Motorized support table
- Plain tray
- Side windows
- Charcoal filter
- Second exhaust filter
- Anti blow back valve
- Exhaust canopy
- Exhaust duct kit
- Exhaust extra blower
- IV bar
- Fumigation dual boiler
- Foot rest



## Bio Ultra Safety Cabinet

BioUltra is an EN 12469 certified class II cabinet range that offers the most advanced features in product-operator protection and user-friendly ergonomics to allow best working conditions and results. Motorized sash window with inflatable gasket, filter clogging calculation and a simplified fumigation process minimize maintenance cost and time. Remote PC Ultralogger control suitable for P3 lab.



### Description

- Microbiological Safety Cabinet Class II, TUV certified to EN 12469 (3,4 & 6 ft)
- Sash window type, motorized, with predefined working position and motion control keys at front of side wall
- Sloped front allowing comfortable standing at work
- Available with glass or solid side windows
- Automatic inflatable gasket for chamber sealing - fumigation
- Back up battery for front window closing after a power failure and power alarm
- Stainless steel curved armrest at 30mm above bench level
- Noise level 55 dBA
- 2 independent blowers and anemometers to control chamber air flow and inlet/exhaust flow
- Exhaust and chamber HEPA filters H-14 of efficiency 99,995 % MPPS (99,999 % DOP)
- Microprocessor control with filter clogging automatic compensation
- Connector for remote PC control with UltraLogger software
- HEPA filters clogging percentage real time calculation and display
- "Turbo exhaust" function key to increase operator protection
- Large graphic LCD back lit display showing simultaneously:
  - Chamber airflow speed
  - Exhaust flow
  - Inlet speed
  - Chamber temperature
  - Filter clogging level
- Passwords (2 levels: user and service)
- Maintenance menu with: total cabinet running hours, hour count of fans, hour count of U.V. lamp, last filter replacement record, record of alarms, maintenance follow up record
- UV sterilization cycle timer
- Fumigation cycle menu
  - Alarms, visual and audible (mutable):
  - Chamber airflow speed (high/low)
  - Low exhaust/inlet air flow
  - Window out of working position
  - U.V. lamp on
  - Stand by speed (enables chamber lighting)
- Epoxy/polyester powder painted steel body
- Stainless steel chamber (AISI 304) with or without side windows
- Partitioned bench for easy removal and autoclaving
- Light intensity of more than 1000 lux
- Access for servicing from front.
- Front window internal side accessible for cleaning without the need of a tool.
- Less than 800 mm total depth
- Less than 1450 mm total height
- Available as 3,4,5,6 ft chamber width (900,1200,1500,1800 mm)
- Equipped as standard with UV, 2 electrical sockets, gas tap and vacuum tap.
- Customized on request



## *Bio Ultra Safety Cabinet (cont...)*

### Accessories & Options

Various accessories and options make the unit adaptable to every application. Telstar also offers its expertise to allow customization of each unit with other features and equipment if required.

- UltraLogger remote PC control software and connection
- Support table
- Support table with castors
- Motorized support table
- Plain tray
- Side windows
- Charcoal filter
- Second exhaust filter
- Anti blow back valve
- Canopy
- Exhaust duct kit
- Exhaust extra blower
- IV bar
- Fumigation dual boiler
- Foot rest



## CytoUltra Safety Cabinet

Third HEPA filter set below the work bench of CytoUltra traps the contaminants thus preventing them reaching the plenum, the main HEPA filter and the HEPA exhaust filter. This reinforced safety is required for the handling of highly toxic compounds. Certified EN 12469 Class II and DIN 12980 for Cytotoxics, CytoUltra offers the most advanced features in product and operator protection and in ergonomics to allow best working conditions.

Third filter stage eliminates contamination risks when servicing the unit.

Third HEPA filter stage easily replaced in the unit basement and filter clogging calculation minimize maintenance cost and time. Remote PC Ultralogger control suitable for P3 lab.



### Description

- Microbiological Safety Cabinet Class II, TUV certified (4 ft model) to EN 12469 and to DIN 12980 for use with cytostatic drugs
- 3 HEPA H14 filtration stages, basement, exhaust and chamber with efficiency of 99,995 % MPPS (99,999 % DOP)
- Life time of chamber and exhaust filters virtually endless
- Filter replacement process possible without decontamination
- Sash window type, motorized, with predefined working position and motion control keys at front of side wall
- Sloped front allowing comfortable standing at work
- Available with glass or solid side windows
- Automatic inflatable gasket for chamber sealing - fumigation
- Back up battery for window closing after a power failure and power alarm
- Stainless steel curved armrest at 30mm above bench level
- Noise level 55 dBA
- 2 independent blowers and anemometers to control chamber air flow and inlet/exhaust flow
- Microprocessor control with filter clogging automatic compensation
- Connector for remote PC control with UltraLogger software
- HEPA filters clogging percentage real time calculation and display
- "Turbo exhaust" function key to increase operator protection
- Large graphic LCD back lit display showing simultaneously :
  - Chamber airflow speed
  - Exhaust flow
  - Inlet speed
  - Chamber temperature
  - Filter clogging level
- Passwords (2 levels: user and service)
- Maintenance menu with: total cabinet running hours, hour count of fans, hour count of U.V. lamp, last filter replacement record, record of alarms, maintenance follow up record
- UV sterilization cycle timer
- Fumigation cycle menu
- Alarms, visual and audible:
  - Chamber airflow speed (high/low).
  - Low exhaust/inlet air flow
  - Window out of working position
  - U.V. lamp on
  - Stand by speed (enables chamber lighting)
- Epoxy/polyester powder painted steel body
- Stainless steel chamber (AISI 304) available as alternative with or without side windows



## CytoUltra Safety Cabinet (cont...)

- Partitioned bench for easy removal and autoclaving
- Light intensity of more than 1000 lumens
- Access for servicing from front.
- Window internal side accessible for cleaning without the need of a tool.
- Less than 800 mm total depth
- Less than 1450 mm total height
- Available as 4 or 6 ft chamber width (1200,1800 mm)
- Equipped as standard with UV, 2 electrical sockets, gas tap and vacuum tap.
- Customized on request

### Accessories & Options

Various accessories and options make the unit adaptable to every application. Telstar also offers its expertise to allow customization of each unit with other features and equipment if required.

- UltraLogger remote PC control software and connection
- Support table
- Plain tray
- Side windows
- Charcoal filter
- Second exhaust filter
- Anti blow back valve
- Exhaust canopy
- Exhaust duct kit
- Exhaust extra blower
- IV bar
- Fumigation dual boiler
- Foot rest



## Options and accessories

**A complete range of options and accessories enables the BioUltra to meet all needs:**



1. Automatic support stand allows adjustment of working bench height.
2. Anti blow back valve
3. Additional charcoal exhaust filter to trap bad smells or chemicals.
4. Canopy connection enables safe coupling to a duct.
5. Formalin vaporizer for decontamination.
6. Plain tray to prevent risk of spillage.
7. Formalin vaporizer with neutralization for decontamination.
8. Side window to improve the illumination
9. Double exhaust HEPA filter provides extra safety when the unit is exhausting to the lab environment.

