

# CytoULTRA

**3 HEPA FILTER CYTOTOXIC AND BIOSAFETY CABINET  
CLASS II**



# CytoULTRA BSC

**CytoULTRA** is a BioUltra unit equipped with an additional third Hepa H14 pre-filtration stage right below the workbench. It is aimed for the manipulation of hazardous substances like in the preparation of cytotoxic medicines as prescribed in several European countries recommendations and is also ideal class II configuration for reinforced bio safety and maintenance cost savings and safety.

**CytoULTRA** is certified by TUV according to both European Standard EN 12469-2000 (class II cabinet) and DIN 12980-2005 (specific to cytotoxic cabinets).



The third filter stage is the only one to replace and thanks to the safe filter replacement system it can be changed without exposing the operator and the environment to potential hazards and without requiring a decontamination process.

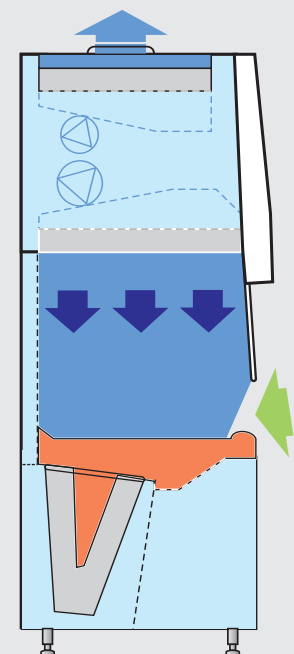


V shaped Hepa pre-filters are safe as they fully contain potential contaminants, easily sealed with a tape and inserted in trash bag in the chamber, while running with sterile conditions.







Charcoal filter available instead of V Hepa pre-filter for special applications.

Adjustable feet to adapt floor unevenness.

The space below the cabinet has been maximized for the operator comfort and allows all working positions.

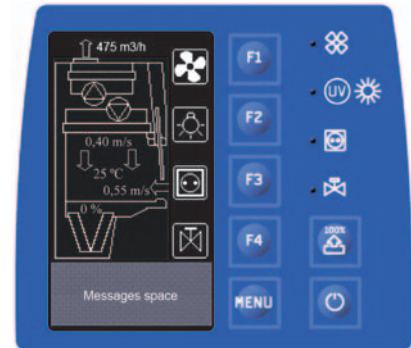


Totally minimized and confined contaminated area. All the area after the V Hepa pre-filters H14 is sterile allowing an easy maintenance and extending the life of the downflow and exhaust filter throughout the entire lifecycle.

- |   |                               |   |                      |
|---|-------------------------------|---|----------------------|
|  | Room air                      |  | Filtered sterile air |
|  | Double filtered sterile air   |  | Hepa Filter H14      |
|  | Potentially contaminated area |  | Fans                 |

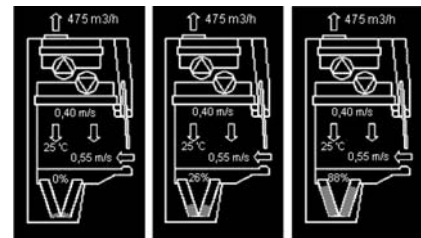
# Full control over expectations

- Key for turbo exhaust function and menus.
- Four "function" keys allow choosing the options in the different menus.
- Half speed downflow function (interlocked with the light).
- Large graphic LCD screen with comprehensive display of parameters.
- Status LED for: fan, light, UV light, gas valve and socket.
- Two level password protection (operator and technical service) replaces keyswitch to prevent non authorised use or service.
- Multilingual menu: English, Spanish, German, French.
- Maintenance menu: UV light timer, decontamination process, alarm report, maintenance history, components run time,...
- Setup menu: to change or deactivate the password, lock the controls and get the emergency code.
- Dry contact to be used for remote alarm monitoring or connection to BMS.
- Audible and visual alarms with display of alarm conditions:
  - High or low laminar downflow.
  - Low inflow velocity / exhaust flow rate.
  - Front window out of working position.
  - UV light on (interlocked with close window position).
  - Standby downflow.
  - Failure on main control system.



## Simultaneous display of working parameters:

- Downflow velocity
- Inflow velocity
- Exhaust flow
- Chamber temperature
- % clogging of HEPA pre-filter



## Filter clogging monitoring minimizes filter replacement expenses.

# Options and accessories

A complete range of options and accessories allows CytoULTRA meets all needs:

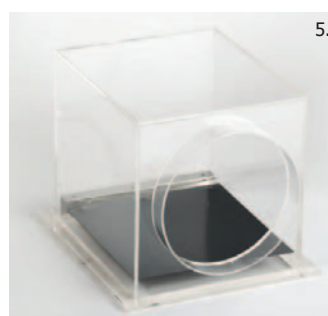
1. Stainless steel IV bar with 6 hooks.
2. Side windows to improve the illumination.
3. Plain tray to prevent risk of spillage.
4. Canopy connection for a safe connection to a duct.
5. Anti blow-back valve.
6. Additional charcoal exhaust filter to trap bad smell or chemicals.
7. Ultra Logger software enables remote control and PC monitoring.



1.



2.



5.



4.

# Technical data

- Hepa H14 pre-filter stage with double air filtration.
- **The cabinet is only 795 mm depth and 1995 mm height (compatible with all lab door width).**
- Slope front improves body position.
- Stainless steel 304L single piece chamber with rounded corners (side windows as an option).
- Independent fans and airspeed control for exhaust flow and downflow.
- Motorized sliding window with inflatable gasket (100% leaktight).
- Visible command/control panel with large LCD.
- Glareless safety glass window without any visual obstacle at the edge.
- Gas spring counter balance the hinged front panel for servicing and window inner side cleaning.
- Close loop active control with thermoanemometric sensor.
- Turbo exhaust function.
- UV timer.
- 4 languages predefined (English, Spanish, French and German).
- Power fails detection and automatic window closing and sealing (thanks to a battery).

TECHNICAL SPECIFICATIONS	UNIT	CytoULTRA 4	CytoULTRA 6
External dimensions (uncrated) DxWxH	mm	795x1400x2115 <sup>1</sup>	795x2010x2115 <sup>1</sup>
Chamberl dimensions ( DxWxH)	mm	560x1190x650	560x1800x650
External dimensions (crated) DxWxH	mm	890x1500x2290	890x2110x2290
Weight (crated / uncrated)	kg	340 / 300	460 / 400
Power	kW/A	2.1 / 9.1	2.1 / 9.1
Electrical supply	V/Hz	230 / 50 single ph (other supplies available)	
Laminar downflow velocity	m/s	0.40	0.40
Downflow	m <sup>3</sup> /h	995	1500
Exhaust flow (Ø 200 mm)	m <sup>3</sup> /h	540	815
Inflow velocity	m/s	0.60	0.60
Light intensity	lux	> 1000	> 1100
Noise level	dBA	< 58	< 60
Filters HEPA/ULPA H14	%	Efficiency > 99.999% (DOP)/>99.995 (MPPS en 1822)	

<sup>1</sup> 1995 mm disassembling the adjustable feets.

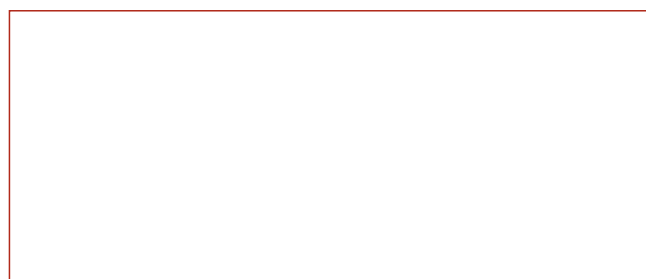
# Ordering information

STANDARD	CytoUltra 4	CytoUltra 6
CytoUltra Serie, 230V / 50Hz with SS sides (2 sockets and UV light with timer)	37016	N.A.
CytoUltra Serie, 230V / 50Hz with side windows (2 sockets and UV light with timer)	45695	45697

ACCESSORIES		
Plain stainless steel working tray	45773	45774
Stainless steel IV bar with 6 hooks	11282	45775
Stainless steel AISI 316 working trays	45779	45780

ACCESSORIES	Cat. No.
Anti blow-back exhaust valve	20529
Canopy "thimble" exhaust transition	41173
Connection to VHP decontamination (SS sides)	45067
Connection to VHP decontamination (side windows)	45068
Activated charcoal exhaust filter box	41517
UltraLogger software	41518

OPTIONS	
Gas tap kit (includes solenoid valve)	45777
Vacuum tap kit	45778
Additional electrical outlet	1520
Output relay for external fan activation	34873
Charcoal pre-filter instead V HEPA H-14 filter	500042
Magnehelic gauge (inside chamber)	41525
Quality certification at Telstar (IQ, OQ)	500028



**TELSTAR INDUSTRIAL, S.L.**  
**CORPORATE HEADQUARTERS**  
 Josep Tapiolas, 120  
 08226 TERRASSA (Spain)  
 Tel. + 34 937 36 16 00  
 Fax + 34 937 85 93 42  
 telstar@telstar.es

**MADRID BRANCH OFFICE**  
 Benisoda, 3  
 28042 MADRID (Spain)  
 Tel. + 34 913 71 75 25  
 Fax + 34 917 47 75 30  
 telstarm@telstar.es

[www.telstar.eu](http://www.telstar.eu)