



**Telstar** CytoULTRA

*3 HEPA Filter Stage Cytotoxics Class II  
Microbiological Safety Cabinet*



# Telstar CytoULTRA

## 3 Hepa Filter Cytotoxic and Biosafety Cabinet Class II









**CytoULTRA** design has been based in the well known and reputed Telstar BioULTRA Class II cabinet. An additional third HEPA H14 pre-filtration stage right below the workbench adapts the **CytoULTRA** to the requirements in the manipulation of hazardous substances like the preparation of cytotoxic medicines as prescribed in several European countries recommendations. It is also ideal class II configuration for reinforced biosafety and maintenance cost savings.

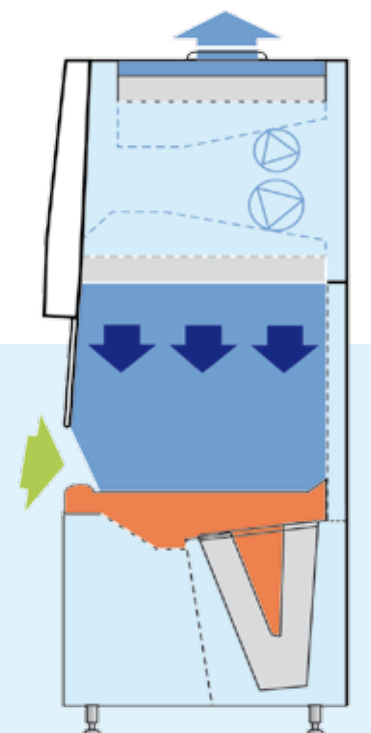
**CytoULTRA** is certified by TUV according to both European Standard EN 12469-2000 (class II cabinet) and DIN 12980-2005 (specific to cytotoxic cabinets).

- Only the third stage filters are exposed to contaminants and to dust which may require their replacement when clogged. Accessible from the chamber, they are safely removable even without a full cabinet fumigation process.
- V shaped Hepa pre-filters are safe as they fully contain potential contaminants, easily sealed and inserted in trash bag in the chamber, while running in sterile conditions.
- Adjustable feet to adapt floor unevenness.
- The space below the cabinet has been maximized for the operator comfort and allows all working positions.
- A motorized sliding window with a pneumatic gasket (patented) automatically seals the front window and allows to fully isolate the chamber in case of accident or for fumigation purposes.



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

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



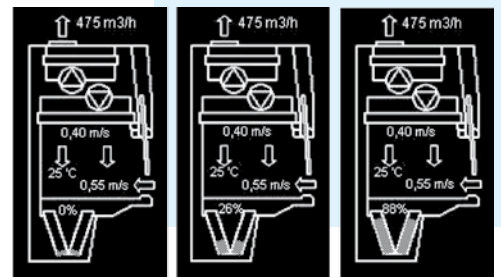
## Full Control Over Expectations

- 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 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.
  - Fan failure (dual fan safety 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** meeting all needs:

1. Stainless steel IV bar with 6 hooks.
2. Side windows.
3. Plain tray instead of standard divided surface.
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.



# 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 (two fans, two sensors).
- 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 (battery integrated).
- Tap kits: Gas (includes solenoid valve) and vacuum.

FEATURES	UNIT	CytoULTRA 4	CytoULTRA 6
External dimensions (uncrated) (DxWxH)	mm	1400x795x2115 <sup>†</sup>	2010x795x2115 <sup>†</sup>
Chamberl dimensions (DxWxH)	mm	1190x560x650	1800x560x650
External dimensions (crated)	mm	1480x890x2290	2090x890x2290
Weight (crated / uncrated)	kg	340 / 300	460 / 400
Power	kW/A	2.1 / 9.1	2.3 / 10
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>†</sup>1995 mm disassembling the adjustable feet.

# Ordering Information

STANDARD	CytoULTRA 4	CytoULTRA 6
CytoUltra Serie, 230V / 50Hz with SS sides 2 sockets, 2 taps (vacuum and gas) and UV light with timer	64328	N.A.
CytoUltra Serie, 230V / 50Hz with side windows 2 sockets and UV light with timer	64329	45697

ACCESSORIES	CytoULTRA 4	CytoULTRA 6
Plain stainless steel working tray	45773	45774
Stainless steel IV bar with 6 hooks	71503	45775
Stainless steel AISI 316 working trays	45779	45780

ACCESSORIES	Cat. No.	OPTIONS	
Anti blow-back exhaust valve	20529	Charcoal pre-filter instead of V filters	500042
Canopy "thimble" exhaust transition	67171	Magnehelic gauge (inside chamber)	41525
Connection to VHP decontamination (SS sides)	45067	Quality certification at Telstar (IQ, OQ)	500028
Connection to VHP decontamination (side windows)	45068		
Activated charcoal exhaust filter box	73934		
UltraLogger software	62997		
External exhaust extra fan	12213		



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