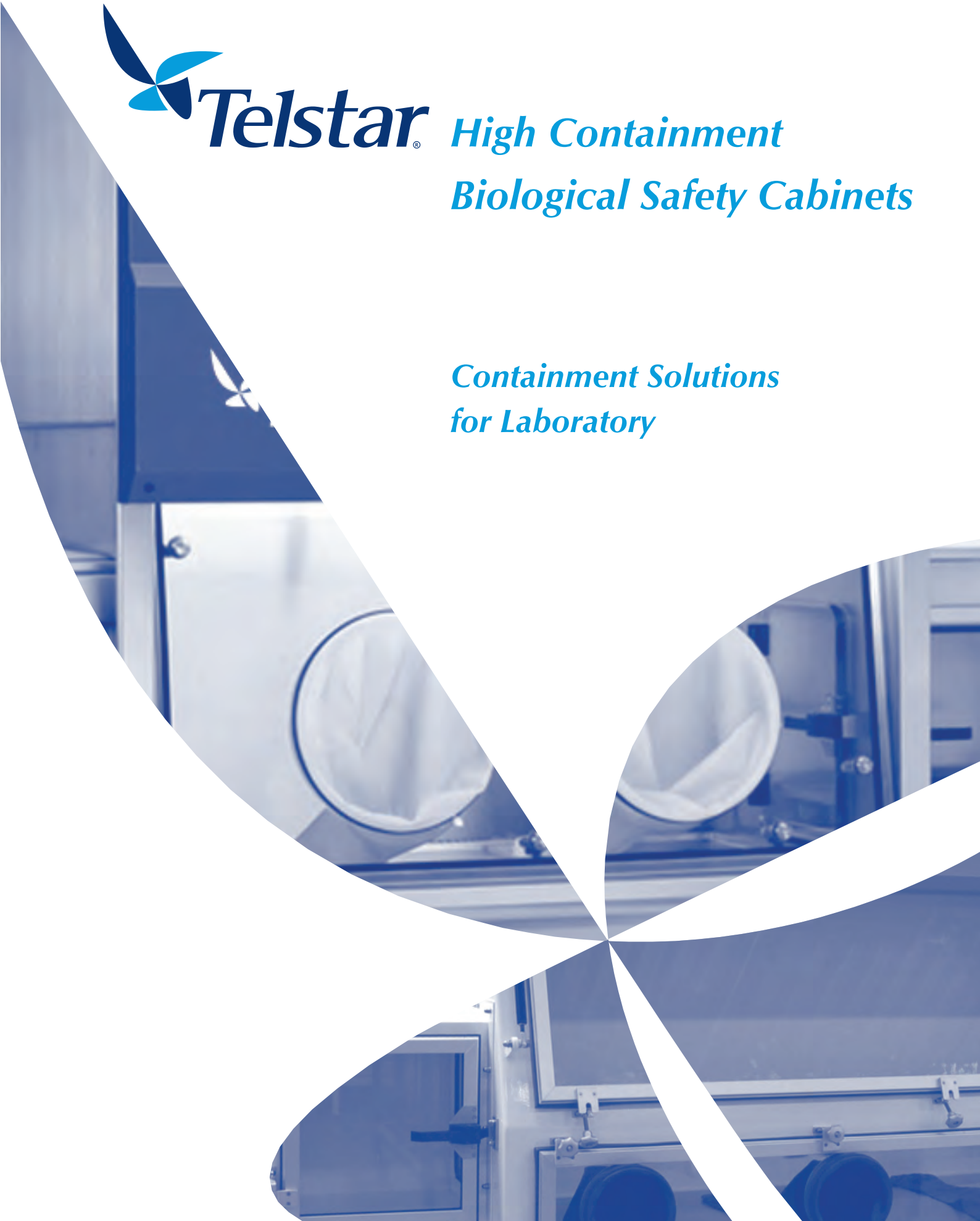




***Telstar*** *High Containment  
Biological Safety Cabinets*

*Containment Solutions  
for Laboratory*



# **Telstar** *High Containment Biological Safety Cabinets* *Containment Solutions for Laboratory*

## *Pharmacy Isolators*

### *Sterilator*



The positive-pressure isolators provide laminar airflow in the working chamber, making them ideal for products which have no biological risk but require high sterile conditions. This equipment not only provides a high level of containment against external contamination, but avoids the risk of cross contamination as they provide laminar air flow to the working chamber.

### *Cytolator*



The negative-pressure isolators provide laminar airflow within the working chamber and are used for products biologically hazardous that also requires minimized cross contamination. An additional third HEPA H 14 prefiltration stage right below the workbench adapts the isolator to the requirements in the manipulation of hazardous substances like the preparation of cytotoxic medicines as prescribed in some countries recommendations.

## *Class III BioSafety Cabinets*

### *MSC III*



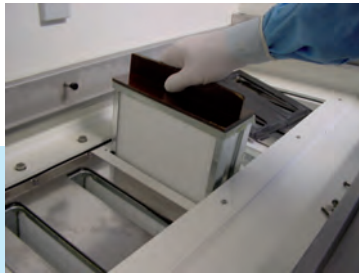
The Class III Biological Safety Cabinets have been especially designed for the handling of microbiological agents, offering maximum protection to the product, the environment and the user.

Designed according EN 12469, the MSC Class III offers an ergonomically designed totally sealed which keep the user completely separated from the product by a physical barrier when total containment and user protection is required.

# General Features

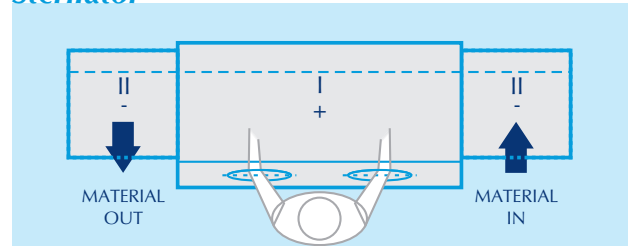
## Pharmacy Isolators

- Working chamber & hatches in stainless steel 304.
- Microprocessor air flow control equipped with one sensor.
- Front window placed under a small angle for ergonomics, easily removed for maintenance.
- Stainless steel dripping tray underneath the air grids to remove spoil liquids.
- Glove systems (2 or 4), ports Ø 250 mm, with cuff ring system and latex gloves.
- Inlet & Exhaust HEPA H 14 filter with a G3 pre-filter system.
- Minihelic pressure gauge, monitoring the pressure level in the working area.
- Lighting unit constructed outside the working area, lighting level > 1000 lux.
- Selection of 1 or 2 hatches.



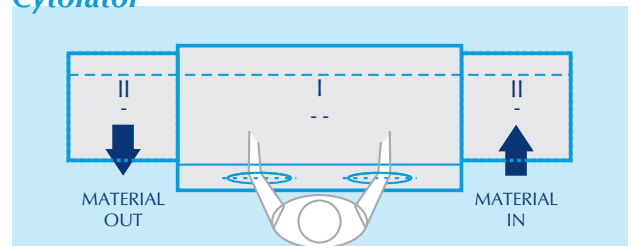
*Additional third HEPA H14 prefiltration stage in Cytolator.*

## Sterilator



*The Sterilator main chamber pressure (vs. ambient) is positive to the room. The main chamber is slightly more positive than the pass-through to assure aseptic conditions within the main chamber.*

## Cytolator

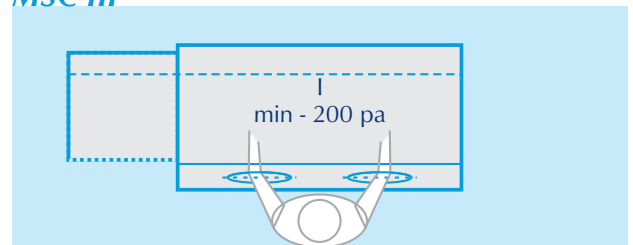


*The Cytolator main chamber pressure (vs. ambient) is negative to the room. Both the main chamber and pass-through are always negative to the room, and provide protection to the product, user and environment.*

## Class III BioSafety Cabinets

- Microprocessor air flow control & LCD display.
- Stainless steel work tray.
- Hinged window with gas dampers for easy opening.
- Inlet & Exhaust HEPA H 14 filter with a G3 pre-filter system.
- Lighting unit constructed outside the working area.

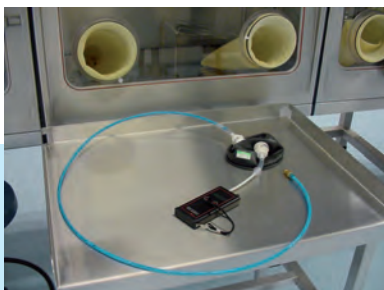
## MSC III



*The Biosafety Cabinet working area is at a negative pressure of minimum 200 Pa to the room. The main chamber pressure (vs. ambient) is negative to the room to provide protection to the product, user and environment.*

## Options and Accessories

- Mechanical interlocking system.
- Stainless steel 316L interior and exterior.
- Stainless steel sliding tray.
- VHP connections.
- Stainless steel hanging rail /8 hooks.
- Taps (vacuum, water, O<sub>2</sub>, air...).
- UV light with or without timer.



*Gloves can be tested for leaks by use of a digital manometer or magnehelic gauge.*



*Stainless steel sliding tray prevents users fatigue during transfer procedures.*

# Technical Data

## Pharmacy Isolators

DESCRIPTION	UNIT	Sterilator		Cytolator	
		CS 1201	CS 1801	CS 1202	CS 1802
<b>Cabinet</b>					
External dimensions (WxDxH)	mm	1757x860x1240	2057x860x1240	1757x860x1240	2057x860x1240
Chamber dimensions (WxDxH)	mm	1190x580x685	1800x580x685	1190x580x685	1800x580x685
Total height (incl. support frame 800 mm)	mm	2139	2139	2139	2139
Window opening (HxW)	mm	520x1030	520x1330	520x1030	520x1330
<b>Power</b>					
Electrical supply	V/Hz	230/50 single ph (other supplies available)			
Exhaust flow ( Ø 250 mm)	m <sup>3</sup> /h	250	450	250	450
Light intensity	lux	> 1000			
Downflow	m/s	0,40			
Working chamber pressure	Pa	+50	+50	-90	-90
Weight	Kg	400	550	400	550
<b>Filters</b>					
Air changes	times x h	Pre-filter G3 + HEPA H14*			
		2190	2174	2190	2174
<b>Hatch</b>					
Chamber dimensions (WxDxH)	mm	465x360x356			
Entrance door (WxH)	mm	340x312			
Pressure	Pa	-50	-50	-45	-45
<b>Filters</b>					
Air changes	times x h	Pre-filter G3 + HEPA/ULPA H14*			
		1400			
<b>Gloves</b>					
Dimensions (mm)	mm	2 x Ø 250	4 x Ø 250	2 x Ø 250	4 x Ø 250

\*Filters H14 according to EN 1822: efficiency 99,995% MPPS and 99,999% DOP.

## Class III BioSafety Cabinets

DESCRIPTION	UNIT	MSC III 1200	MSC III 1500	MSC III 1800
<b>Cabinet (without support frame)</b>				
External dimensions (WxDxH)	mm	1757x791x1240	2057x791x1240	2357x791x1240
Chamber dimensions (WxDxH)	mm	1194x614x870	1494x614x870	1794x614x870
Total height (incl. support frame 800 mm)	mm	2139	2139	2139
Window opening (HxW)	mm	520x1030	520x1330	520x1630
<b>Hatch</b>				
Chamber dimensions (WxDxH)	mm	400x400x400	400x400x400	400x400x400
<b>Gloves</b>				
Dimensions	mm	2x Ø 170	4x Ø 170	4x Ø 170



ISO9001: Certified Company  
BR-CONTAINMENT-LAB-PR-EN-0814

Telstar reserves the right to improvements and specifications changes without notice

**SPAIN**  
**Headquarters**  
Av. Font i Sagué, 55  
08227 Terrassa (Spain)  
T +34 937 361 600  
F +34 937 861 380

Santibáñez de Béjar, 3  
08042 Madrid  
T +34 913 717 790  
F +34 913 717 791

**NORTH AMERICA**  
1504 Grundy's Lane  
Bristol PA 19007  
T +1 (215) 826 0770  
F +1 (215) 826 0222

**JAPAN**  
Azbil Corporation  
Tokyo Building,  
2-7-3 Marunouchi, Chiyoda-ku,  
Tokyo 100-6419,  
T +81 3 6810 1000  
F +81 3 5220 7270

**CHINA**  
No. 30 Jin Wen Road,  
Zu Qiao Airport Industrial Park,  
Pudong District  
201323 Shanghai  
T +86 21 58 093 731  
F +86 21 58 092 857

[www.telstar.com](http://www.telstar.com)  
[sales.laboratory@telstar.com](mailto:sales.laboratory@telstar.com)