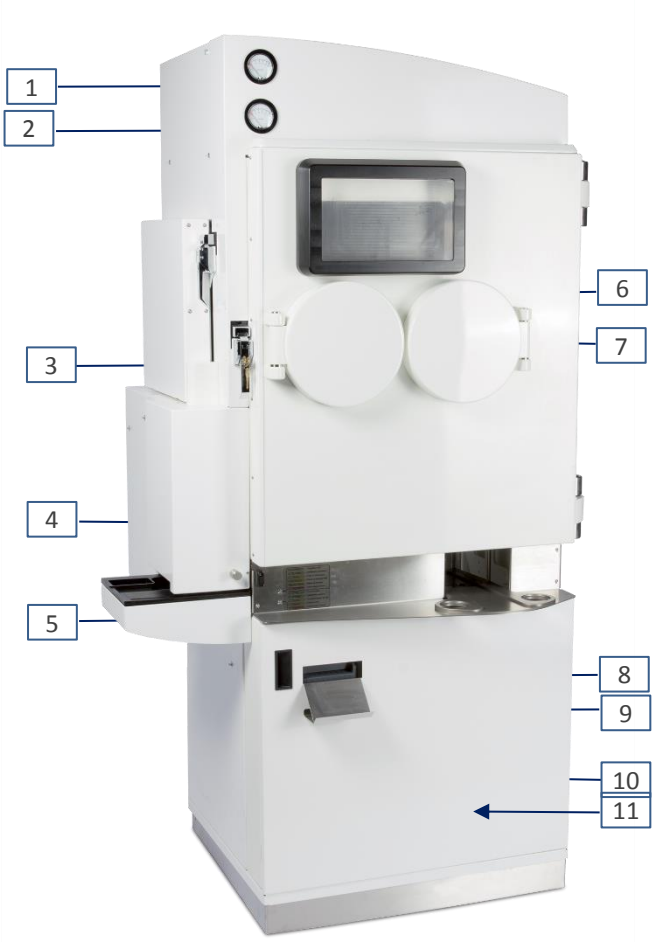
Data Sheet - Product n° : 9002

Shielded hot cell for Unidose dispenser

Application

Trasis shielded hot cell for Unidose is a specifically designed hot cell which optimally hosts the automated dispensing system and all its accessories.
The hot cell offers a unique combination of radiation safety, minimal footprint and ergonomic design, making it very suitable in a hospital environment.

Description



1- Pass-through pressure sensor
2- Pressure sensor for the main enclosure
3- Shielding of the passing line
4- Left-side cabinet
5- Two LED lights indicating the status of the hot cell and the dispenser
6- Main door
7- Main shielded cabinet
8- Tray for the recovery of patient doses
9- Horizontal stainless steel tray
10- Unshielded bottom enclosure door
11- Unshielded lower cabinet for accessories

Features

General features

- Compact : it can easily accommodate in narrow places
- Outside painted smooth and stainless finish which makes it easy to clean and decontaminate

Main shielded cabinet (7)

- Features an autonomous and reversible ventilation system allowing to put the cabinet under pressure or vacuum
- Includes one air inlet and one air outlet
- Includes a laminar flow device
- Equipped with a shielded pass-through for the activity inlet line
- Includes an inner door equipped with a leak tight panel mounted PG21. It allows passing a particle counter tube
- Includes a surveillance camera on magnetic support
- Liquid and air tight
- Made out of 316L mirror polished stainless steel
- Includes a low consumption LED light

Main door (6)

- 130° wide opening
- Is equipped with a handle which can be locked with a mechanical key
- Features a closing detection switch

Left side cabinet (4)

- Dedicated to host a container with multi-dose lead pigs and vials to be transferred to the dispenser
- Equipped with a manually actuated remote vial piercing mechanism
- Door equipped with a closing detection switch

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Unshielded lower cabinet (11)

This enclosure contains the hot cell control PLC and the label printer.

It can also be used as a stock area. It is wide enough to contain a mini air compressor and/or a computer.

Specifications

Air quality grade	
Shielded cabinet	ISO 7

Lead thickness	
Shielded cabinet	5 cm
Left cabinet	2 cm

General specifications	
Color	White RAL 9010
Weight	± 2000 kg (± 4400 lbs)
Flow rate range	0 – 12 m³/h
Air inlet	ø5 cm (dn40)
Air Outlet	ø5 cm (dn40)
Power	90 - 250 Vac / 47 - 63 Hz

Size

Dimension	Depth		Width		Height	
	cm	inch	cm	inch	cm	inch
Outside without left cabinet	70	27,5	87	34,2	200	78,7
Outside with left cabinet and main door open	144	56,6	128	50,3	200	78,7
Inside upper shielded cabinet	47,8	19,2	59	23,2	70,6	27,6

Ordering information

Hot cells	Reference
Basic hot cell	9002

Options	Reference
1. Hot cell with pass through and glove rounds	9003
2. Hot cell with pass through, glove rounds and small shielded lead glass window	9004
3. Hot cell with pass through, glove rounds and large shielded lead glass window	9005
4. Laminar flow for side cabinet	9007
5. Additional 2 cm lead shielding on the rear wall	9006
6. Safety interlock system & dose rate detector	7250
7. Weight spreading platform	8268
8. Local weight spreading bases for feet	9012
9. Screen and keyboard support	9011
10. Stepladder	9009

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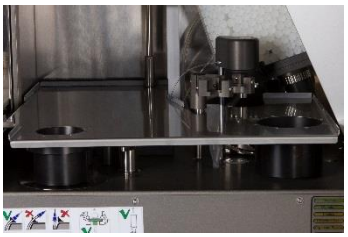
Hot cell options

1- Pass through and glove rounds

This option allows to manually get access into the main enclosure to perform manual filling.
It includes:

- two glove rounds with gloves and shielded doors
- SAS door
- manual filling tray

SAS door for options 1, 2 & 3



Manual filling tray for options 1, 2 & 3

2- Pass through, glove rounds and small shielded lead glass window

This option allows to manually get access into the main enclosure to perform manual filling. The small lead window allows the operator to see inside the main cabinet.
It includes:

- two glove rounds with gloves and shielded doors
- a small lead glass window with 5 cm lead equivalent (10 cm glass thickness)
- SAS door
- manual filling tray

3- Pass through, glove rounds and large shielded lead glass window

This option allows to manually get access into the main enclosure to perform manual filling. The lead window allows the operator to see inside the main cabinet.
It includes:

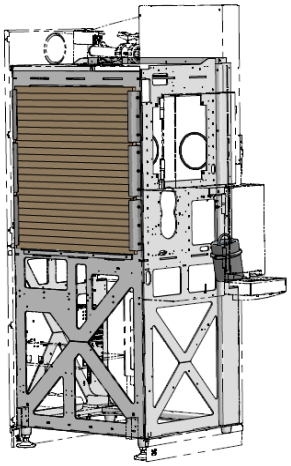
- two glove rounds with gloves and shielded doors
- a large lead glass window 5 cm lead equivalent (10 cm glass thickness)
- SAS door
- manual filling tray

4- Laminar flow for side cabinet

A laminar air flow can be placed on the left side cabinet. It includes an autonomous ventilation system and a H14 HEPA filter. It generates a horizontal laminar air flow. As a result, a local specific ISO 4.8 air class is created.

5- Additional 2cm lead shielding on the rear wall

Improves radioprotection backwards.
The hot cell gains an additional weight of 120kg.



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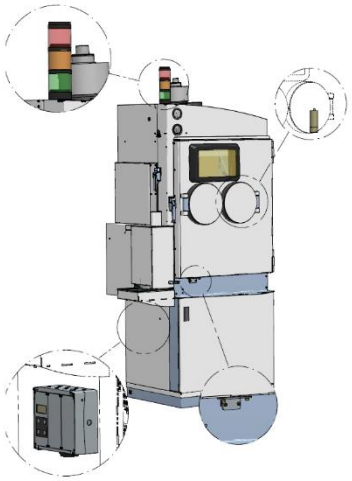
6- Safety interlock system

Main cabinet door interlock device operated by an independent dose detector. Includes the probe and a warning lights. Prevents door opening while the dose rate or the radioactivity level inside the hot cell raise above set thresholds.



7- Weight spreading platform

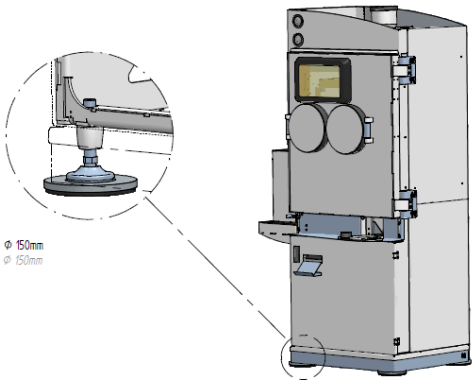
Steel structure covered with a wood stage that spreads the load of the hot cell on up to 2m².

Length	2 - 2,4	m
Depth	74	cm
Height	15	cm
Weight	100	kg

Can be coated of a PVC liner by the customer to fit with the overall ground floor and to get a smooth cleanable surface.

8- Local weight spreading bases for feet

Steel and rubber washers designed to spread the pressure under feet on a surface which is 4 times larger than without. Solution to reduce punching forces where required.



9- Screen and keyboard support

The support can be fixed as well at the left of the hot cell. Screen and keyboard position can be adjusted in all directions and orientation.

- Can accommodate screens from 15" to 24"
- VESA fixation 100x100mm and 75x75mm

10- Stepladder

Allows the operator to have close access to the dispenser on two different levels. The stepladder is retractable.

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