

Application

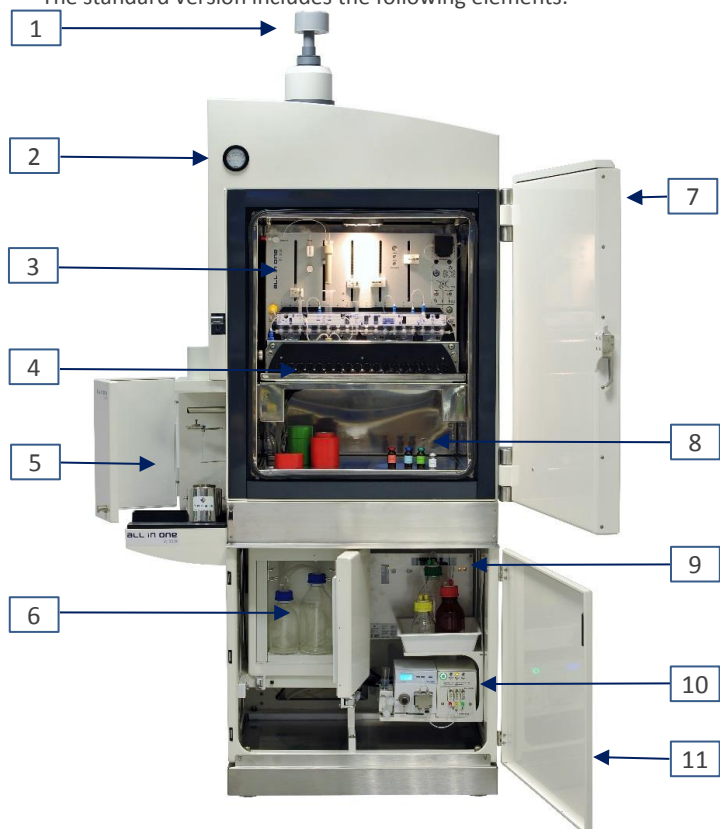
Trasis hot cell is designed to host a synthesis module and its accessories for the production of radiopharmaceuticals for research and/or for routine production purposes in a radiopharmacy.

The main shielded cabinet can accommodate:

- One AllinOne synthesis module
- One or two miniAllinOne synthesis modules
- Accessories

Description

The standard version includes the following elements:



- 1- Ventilation system with HEPA filter on the inlet, HEPA filter & shielded charcoal filter on the outlet
- 2- Analog pressure/vacuum sensor
- 3- Main shielded cabinet
- 4- Sliding and rotating tray
- 5- Left side shielded cabinet
Can be removed, see options table
- 6- Shielded cabinet for wastes bottles
- 7- Shielded main door
- 8- Compartment for accessories and final product collection
- 9- Hot cell controller
- 10- Unshielded lower cabinet for HPLC accessories: HPLC pump, eluent selection box and eluents
- 11- Unshielded bottom enclosure door

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 (3)

- Autonomous and reversible ventilation system allowing to put the cabinet under pressure or vacuum
- 2 surveillance cameras on magnetic support
- Bulkhead for tight transfer of the radioactivity from and towards the side cabinet
- Bulkhead block for modular and tight entrance of tubes and cables from and towards the lower cabinet
- Liquid and air tight
- Made out of 316L mirror polished stainless steel
- 1 low consumption LED light
- Includes a 360° rotating and sliding tray allowing easy handling and maintenance without removing the synthesizer from the hot cell



Main door (7)

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

Left side cabinet (5)

- Dedicated to host a container with incoming isotopes or a collection container of the synthesized radiopharmaceutical
- Equipped with a manually actuated remote vial piercing mechanism
- Door equipped with a closing detection switch

Specifications

Air quality grade

Shielded cabinet (3)	ISO 7
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Lead thickness

Shielded cabinet (3)	5 cm
Left cabinet (5)	2 cm
Wastes cabinet (6)	5 cm: left, right, rear and top 4 cm: bottom

General specifications

Color	White RAL 9010
Weight	± 2000 kg (± 4400 lbs)
Flow rate range	0 – 12 m ³ /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
Standard model without left side cabinet	S2100-0
Standard model with left side cabinet	S2100-1

Options	Reference
1. Right side cabinet	9008
2. Laminar flow for side cabinet	9007
3. Additional 2cm lead shielding on the rear wall	9006
4. Safety interlock system & dose rate detector	7250
5. Weight spreading platform	8268
6. Local weight spreading bases for feet	9012
7. Screen and keyboard support	9011
8. Class A handling glove box	9010

Options details (see pictures on page 3)

- 1- Right side cabinet**
 Same features and specification as the left side cabinet but located at the right of the hot cell.
- 2- Laminar flow for side cabinet**
 A laminar air flow can be placed on each 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.
- 3- Additional 2cm lead shielding on the rear wall**
 Improves radioprotection backwards.
 The hot cell gains an additional weight of 120kg.
- 4- 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.
- 5- 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.
- 6- 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.
- 7- 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
- 8- ISO 5 (particles Class A) handling glove box**
 - Unshielded transparent polycarbonate
 - Equipped with 2 glove access
 - Local ventilation connected to the ventilation system of the hot cell, creating an air quality grade ISO 6
 - Vertical laminar flow giving an air quality grade ISO 5 (particle class A) in the handling area
 - Can support a weight of up to 100 kg of shielding and accessories.

