

Medisystem is a spin off from the French Atomic Energy Commission.

Since the beginning, April 1980, our mission is to provide the best radioprotection for Nuclear Medicine staff.

The Medisystem team is based close to Paris, France. Development, design, studies, manufacturing and marketing are all carried out on our own premises. Our products are marketed throughout Europe.

Our distributors are at your side to advise and guide you in choosing the right equipment and will know how to adapt to the constraints of your premises, processes, timetables and personnel. They can also provide assistance well after the delivery and installation of your equipment for removals, works, maintenance or repairs, and there are already many of you who benefit from these services.

In listening to you, we draw our inspiration from your remarks and suggestions. Your contact and requirements with us is our stimulus to enable progress. We improve our existing range and develop new products. Our product range has thus been evolving at an increasing pace in 2008 and 2009.

It has now become necessary to offer you a new catalogue showing our current range of materials and equipment for Nuclear Medicine.

You have in your hands the 2010 catalogue. It marks quite an event for us but our main wish is that it should become an indispensable tool for you.

We have tried to produce a tool as practical as possible, however, in order to help us make improvements, please do not hesitate to offer your remarks and suggestions. We will be delighted to take them into account in the next editions.

Dr. Philippe LARAVOIRE

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# TRANSPORT & STORAGE OF SOURCES



# STORAGE TROLLEYS

With the storage trolleys, up to 8 generators or 12 pots of FDG can be moved from their place of delivery to the hot lab. Their vertical and horizontal shielding panels protect the user during movement. Combined with its shielded casing, it enables both storage and transport of the sources.

## THE KEY POINTS

- Space saving
- Avoids carrying heavy loads
- 2 in 1: transport and storage



## The range

- Available in versions with fixed or adjustable height
- With or without storage shielded casing

# STORAGE TROLLEYS

## TRANSPORT TROLLEY

	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Fixed	10	755	823	809	190
Adjustable in height	10	755	823	809	213

**Ref. 11286:** Transport trolley, fixed version

**Ref. 11285:** Transport trolley, adjustable height version



Mounted on 4 pairs of dual wheels, of which 2 are equipped with brakes.

**Adjustable height:**

- pedal mechanism
- movement: 300 mm

## STORAGE TROLLEY

	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Trolley	10	755	823	809	190
Storage unit	10	800	854	827	530

**Ref. 11290:** Storage trolley, fixed height version

**Ref. 11291:** Storage trolley, adjustable height version



# FIXED STORAGE UNITS

Our fixed storage units must be used to store your generator sources, packs and radioactive kits in a closed and radio-protected environment. In accordance with regulations, the handle incorporates a key-operated lock. Internally covered in stainless.

## THE KEY POINTS

- Biological protection by 10 mm of lead
- Height adjustment of shelf
- Locking with key
- Easy to decontaminate



## The range

- With or without refrigerator.
- Different sizes: either for building-in under a bench or in cupboard version for greater storage space.

# FIXED STORAGE UNITS

## SHIELDED CUPBOARD

	Lead thickness (mm)	Width (mm)	Depth (mm)	Weight (kg)
1 m cupboard	10	600	600	505
1.20 m cupboard	10	600	600	582

Ref. 11513: Shielded cupboard, 1 m high

Ref. 11515: Shielded cupboard, 1.20 m high

Custom dimensions : contact us



## UNDER-BENCH SHIELDED STORAGE UNIT

	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Shielded storage unit	10	500	710	520	415

Ref. 11501: MEDI 63 storage unit



## REFRIGERATED SHIELDED STORAGE UNIT

	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Refrigerated storage unit	10	500	710	520	428

Ref. 11511: MEDI 50 refrigerated storage unit







# HOT CELLS



# THE MEDI 2000 HOT CELLS

The MEDI 2000 range hot cells have proved their worth for their practicality and robustness. The improvements made to the hot cells over the years together with their feature-rich design have made them the benchmark equipment in Nuclear Medicine laboratories.

## THE KEY POINTS

- External dose rate of less than 25  $\mu\text{Sv/h}$
- Robust
- Reliable
- Ergonomic design



## The range

- Low & Medium Energy or High Energy
- 2 or 4 glove ports

### Additional options:

- Motorised height adjustment
- 2nd airlock
- A variety of airlock configurations  
*(please contact us for further information)*



# LOW & MEDIUM ENERGY HOT CELL

## 2 GLOVE PORTS

### MEDI 2000 COMPACT

#### Equipment:

- 1 airlock with sliding tray
- 1 lead glass window, density 4.8
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with 1 pressure indicator

#### Work area:

- Corian® surface coating
- 1 access to the dose calibrator
- 2 integral wastebins
- Protected access to the 2 generators
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

#### Lower part:

- 1 shielded compartment for dose calibrator
- 1 shielded compartment for lift carrying 2 generators, compatible with IBACisBio, Covidien and G.E. generators
- 1 central position for waste or needle bin

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 Very Highly Effective input filter - Flow: 50 m³/h
- 1 activated charcoal output filter - Flow: 300 m³/h

	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
<b>Overall external dimensions</b>	<b>15*</b>	<b>24</b>	<b>1028</b>	<b>1612</b>	<b>792</b>	<b>1000</b>
<b>Work surface dimensions</b>	-	-	<b>650</b>	<b>580</b>	<b>530</b>	-

\* Increased shielding of generator area : 45 mm

\*\* Dimension with 1 airlock

**Ref. 12075:** MEDI 2000 Compact

**Ref. 12076:** Motorised Hot cell lift

**Ref. 12185:** 2nd shielded airlock



# LOW & MEDIUM ENERGY HOT CELL

## 4 GLOVE PORTS

### MEDI 2000 REFERENCE

#### Equipment:

- 1 airlock with sliding tray
- 1 lead glass window, density 4.8
- 4 glove ports with shielded shutters
- 4 gloves (size by request)
- 1 control panel with pressure indicator

#### Work area:

- Corian® surface coating
- 1 access to the dose calibrator
- 2 integral wastebins
- Protected access to the 2 generators
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

#### Lower part:

- 1 shielded compartment for dose calibrator
- 1 shielded compartment for lift carrying 2 generators, compatible with IBA CisBio, Covidien and G.E. generators
- 1 central position for waste or needle bins

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 2 Very Highly Effective input filters - Flow: 50 m³/h x 2 = 100 m³/h
- 1 activated charcoal output filter - Flow: 300 m³/h

	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
<b>Overall external dimensions</b>	<b>15*</b>	<b>24</b>	<b>1702</b>	<b>1612</b>	<b>800</b>	<b>1800</b>
<b>Work surface dimensions</b>	-	-	<b>1210</b>	<b>600</b>	<b>520</b>	-

\* Increased shielding of generator area: 45 mm

\*\* Dimensions with 1 airlock

**Ref. 12051:** MEDI 2000 Reference

**Ref. 12041:** Motorised enclosure-lifting system to adjust to operator height

**Ref. 12042:** Position for 4 generators instead of 2

**Ref. 12185:** 2nd shielded airlock



# HOT CELL FOR IODINE 2 GLOVE PORTS

## MEDI 2000 IODINE

### Equipment:

- 1 airlock with sliding tray
- 1 lead glass window, density 4.8
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with pressure indicator

### Work area:

- Corian® surface coating
- 1 access to dose calibrator well
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

### Lower part:

- 1 shielded compartment for dose calibrator

### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 activated-charcoal input filter - Flow: 10 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h

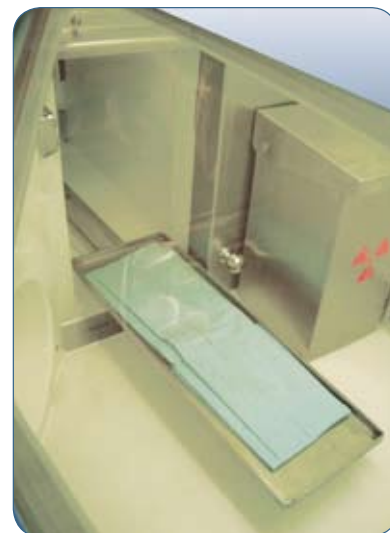
	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	40	88	1056	1612	800	1300
Work surface dimensions	-	-	580	520	490	-

\*\* Dimensions with 1 airlock

**Ref. 12081:** MEDI 2000 Iodine

**Ref. 12061:** Motorised Hot Cell lift

**Ref. 12087:** 2nd shielded airlock



# HIGH ENERGY HOT CELL 2 GLOVE PORTS

## MEDI 2000 PET-C

### Equipment:

- 1 airlock with sliding tray
- 1 lead glass window, density 4.8
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with 1 pressure indicator

### Work area:

- Corian® surface coating
- 1 access to the dose calibrator
- 1 access to FDG vial
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

### Lower part:

- 1 shielded compartment for dose calibrator
- 1 shielded compartment with lift for FDG pot

### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 HEPA input filter - Flow: 50 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h



	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	40	88	1056	1612	800	1300
Work surface dimensions	-	-	580	520	490	-



Ref. 12085: MEDI 2000 PET C

Ref. 12065: Motorised Hot cell lift

Ref. 12087: 2nd shielded airlock

# MEDI 9000 HOT CELLS

This new range of hot cells is easy for setting up and cleaning while providing optimum working and safety conditions.



## THE KEY POINTS

- External dose rate of less than 25  $\mu\text{Sv/h}$
- Optimised visibility without dead zones
- Easy access through front mounted door
- Ergonomic design



## The range

- Low & Medium Energy or High Energy versions
- 2 or 4 glove ports
- In class C or class A

### Additional options:

- Motorised height adjustment
- 2nd airlock
- Different airlock configurations  
(contact us)





# LOW & MEDIUM ENERGY HOT CELL

## 2 GLOVE PORTS

### MEDI 9000 COMPACT CLASS A & CLASS C

#### Equipment:

- 1 airlock with sliding tray
- 1 front mounted door with lead glass providing direct access to the work area and full visibility
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with pressure indicator

#### Work area:

- Cladding in stainless steel
- 1 access to the dose calibrator
- 1 integral wastebin
- Protected access to the 2 generators
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

#### Lower part:

- 1 shielded compartment for the dose calibrator
- 1 shielded compartment for lift carrying 2 generators, compatible with IBA CisBio, Covidien and G.E. generators
- 1 central position for waste or needle bin

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 HEPA input filter - Flow: 30 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h

#### Class A (optional):

- Independent ventilation system - Airflow velocity: 0.45 m/s
- Filter, dimensions 60 cm x 20 cm

	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	15*	48	1404	1927	1063	2000
Work surface dimensions	-	-	720	510	574	-

\* Increased shielding of generator area: 45 mm

\*\* Dimension with 1 airlock

Ref. 11935: MEDI 9000 Compact C

Ref. 11905: MEDI 9000 Compact A

Ref. 12065: Motorised enclosure lifting system to adjust to operator height

Ref. 11950: 2nd shielded airlock





# LOW & MEDIUM ENERGY HOT CELL

## 2 GLOVE PORTS

### MEDI 9000 CLASS A & CLASS C

#### Equipment:

- 1 airlock with sliding tray
- 1 front mounted door with lead glass providing direct access to the work area and full visibility
- 4 glove ports with shielded shutters
- 4 gloves (size by request)
- 1 control panel with pressure indicator

#### Work area:

- Cladding in stainless steel
- 1 access to the dose calibrator
- 2 integral wastebins
- Protected access to the 2 generators
- 3 electric sockets
- 2 UV germicidal tubes
- 4 fluorescent lighting

#### Lower part:

- 1 shielded compartment for the dose calibrator
- 1 shielded compartment for lift carrying 2 generators, compatible with IBA CisBio, Covidien and G.E. generators
- 1 central position for waste or needle bins

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 2 Very Highly Effective input filters - Flow: 30 m<sup>3</sup>/h x 2 = 60 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h

#### Class A (optional):

- Independent ventilation system
- Airflow velocity: 0.45 m/s
- Filter, dimensions 60 cm x 20 cm

	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	15*	48	2335	1927	1063	3800
Work surface dimensions	-	-	1620	510	574	-

Ref. 11910: MEDI 9000 Class C

Ref. 11915: MEDI 9000 Class A

Ref. 11919: Motorised enclosure-lifting system to adjust to operator height

Ref. 11950: 2nd shielded airlock



\* Increased shielding of generator area: 45 mm  
\*\* Dimension with 1 airlock

# HOT CELL FOR IODINE

## 2 RONDS DE GANTS

### MEDI 9000 IODINE

#### Equipment:

- 1 airlock with sliding tray
- 1 front mounted door with lead glass providing direct access to the work area and full visibility
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with pressure indicator

#### Work area:

- Cladding in stainless steel
- 1 access to the dose calibrator
- 1 integral wastebin
- Protected access to FDG pot
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

#### Lower part:

- 1 shielded compartment for the dose calibrator
- 1 central position for waste or needle bin

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 HEPA input filter - Flow: 30 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h

#### Class A (optional):

- Independent ventilation system - Airflow velocity: 0.45 m/s
- HEPA filter, dimensions 60 cm x 20 cm



	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	40	130	1404	1927	1063	3000
Work surface dimensions	-	-	720	510	574	-

\*\* Dimension with 1 airlock

Ref. 11930: MEDI 9000 IODINE

Ref. 11929: Motorised Hot cell lift

Ref. 11955: 2nd shielded airlock

# HIGH-ENERGY HOT CELL

## 2 GLOVE PORTS

### MEDI 9000 PET-A & PET-C

#### Equipment:

- 1 airlock with sliding tray
- 1 front mounted door with lead glass providing direct access to the work area and full visibility
- 2 glove ports with shielded shutters
- 2 gloves (size by request)
- 1 control panel with pressure indicator

#### Work area:

- Cladding in stainless steel
- 1 access to the dose calibrator
- 1 integral wastebin
- Protected access to FDG pot
- 3 electric sockets
- 1 UV germicidal tube
- 1 fluorescent lighting

#### Lower part:

- 1 shielded compartment for to the dose calibrator
- 1 shielded compartment with lift for FDG vial
- 1 central position for waste or needle bin

#### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 1 HEPA input filter - Flow: 30 m<sup>3</sup>/h
- 1 activated-charcoal output filter - Flow: 300 m<sup>3</sup>/h

#### Class A (optional):

- Independent ventilation system
- Airflow velocity: 0.45 m/s
- Filter, dimensions 60 cm x 20 cm

	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	40	130	1404	1927	1063	3800
Work surface dimensions	-	-	750	510	574	-

Ref. 11920: MEDI 9000 PET C

Ref. 11925: MEDI 9000 PET A

Ref. 11929: Motorised Hot cell lift

Ref. 11955: 2nd shielded airlock



\* Dimension with 1 airlock

# HOT CELL FOR SYNTHESIS MODULES

## MEDI 9000 RESEARCH

The MEDI 9000 RESEARCH hot cell has 2 compartments separated by a partition with sliding door.

One compartment is equipped with a sliding tray for the synthesis module and a side door giving a second access for ease of cleaning. The second compartment contains the equipment required for the preparation of radio-pharmaceutical doses.

### Equipment:

- 1 airlock with sliding tray
- 1 "Synthesis Module" compartment with sliding tray
- 1 "Preparation" compartment with:
  - 1 access to the dose calibrator
  - 1 integral wastebin
  - 3 electric sockets
  - 3 UV germicidal tubes
  - 4 fluorescent lightings
- 2 front doors with lead glass providing direct access to the work area and full visibility
- 4 glove ports with shielded shutters
- 4 gloves (size by request)
- 1 control panel with pressure indicator

### Lower part:

- 1 shielded compartment for the dose calibrator
- 1 central position for waste or needle bin

### Containment:

- 1 exhaust fan with speed control, creating a negative pressure of 150-250 Pa
- 2 HEPA input filter - Flow:  $30 \text{ m}^3/\text{h} \times 2 = 60 \text{ m}^3/\text{h}$
- 1 activated-charcoal output filter - Flow:  $300 \text{ m}^3/\text{h}$

### Class A:

- Independent ventilation system - Airflow velocity: 0.45 m/s
- HEPA filter, dimensions 60 cm x 20 cm



	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	40	130	2335	1927	1063	5200
Work surface dimensions	-	-	1620	510	574	-

Ref. 11960: MEDI 9000 RESEARCH

Ref. 11939: Motorised Hot cell lift

Ref. 11955: 2nd shielded airlock



# LAMINAR FLOW WORKSTATION

The MEDIFLUX is a biological Safety cabinet, radioprotected with lead shielding and input and outlet filters.

## THE KEY POINTS

- Biological protection
- Visibility
- Accessibility



## MEDIFLUX 1200

### Equipment:

#### Laminar flow:

- Work surface swept by a vertical laminar flow: class 4000 NF X 44 101 = class 100 US Fed Std, working with 70 % recycled air and 30 % fresh air

#### Filtration:

- 1 main filter for laminar flow = absolute filter 99.999 % effective for particles of 0.3 micron or more
- 1 outlet filter = absolute filter 99.999 % effective DOP

#### Front window:

- Mobile with lifting capability and safety alarm giving warning if in unlocked
- Lead glass shield
  - Sliding
  - Retractable



	Lead thickness (mm)	Lead glass thickness (mm)	Width** (mm)	Height (mm)	Depth (mm)	Weight (kg)
Overall external dimensions	10	33	1395	2590	860	800
Work surface dimensions	-	-	1200	-	600	

Ref. 13540: MEDIFLUX 1200



# PREPARATION



# HOT CELLS ACCESSORIES

## SHIELDED AGITATOR

This shielded Vortex type agitator can be used for the agitation of radioactive solutions contained in vials from 5 to 20 ml.

Lead thickness (mm)	Height (mm)	Dimensions of base (mm)	Speed of rotation (rpm)
10	220	135x160	200 à 2400

Ref. 12000: Shielded agitator



## SHIELDED HEATING BLOCK

The MEDI 14 is a thermostatically controlled heating block, providing a controlled, dry heat environment suitable for the vials used in radiopharmaceutical kits.

### Equipments:

- 1 heating block with digital temperature display
- 1 holder block in lead, 3 shielded wells
  - 1 well dia. 36.4 mm / depth 46 mm
  - 2 wells dia. 26.1 mm / depth 46 mm

### Accessories:

- 1 block handling rod
- 1 thermometer with digital display

Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
265	85	275	2

Ref. 12400: Shielded heating block

Ref. 12410: Holder block, 3 wells

Ref. 12420: Holder block, 6 wells

Ref. 12430: Thermometer

Ref. 12440: Threaded rod for handling blocks





# HOT CELLS ACCESSORIES

## ANALOGIC SHIELDED HEATING BLOCK

### Equipment:

1 Heating unit with potentiometer temperature setting

### Accessories:

- 1 holder block made from lead including 6 shielded wells  
Exterior: white Teflon®  
Weight: 400 g
- 1 block-lifting rod
- 1 thermometer with digital display



Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
290	90	330	5

Ref. 12500: Analogue incubator

Ref. 12420: Holder block 6 wells

Ref. 12430: Thermometer

Ref. 12440: Threaded rod for lifting blocks



## STAINLESS STEEL TONGS

	Length (mm)
MEDI 82 - Small model	250
MEDI 83 - Large model	400

Ref. 14350: MEDI 82 tongs, small model

Ref. 14351: MEDI 83 tongs, large model



# SHIELDED CELLS ACCESSORIES

## SYRINGE SHIELDS HOLDER

LOW & MEDIUM ENERGY

**4 locations:**

- 2 for 1,2, 2,5 or 3 ml Mediclic®
- 2 for 5 or 10 ml Mediclic®

**Ref. 11810:** Stainless Low and Medium Energy Mediclic® shelf



## SHIELDED BLOCK

L or U form.

	Lead thickness (mm)	Height (mm)	Width (mm)	Depth (mm)
L-Block high	10	220	170	170
L-Block low	10	100	170	170
U-Block low	10	100	300	150



**Ref. 11820:** L-Block high

**Ref. 11821:** L-Block low

**Ref. 11823:** U-Block low

# VIAL SHIELDS

## ELUTION CONTAINER

These pots are shielded to provide effective protection and covered in stainless steel for ease of decontamination.

Lead thickness (mm)	Lead glass thickness (mm)	Weight (kg)
6	14	0,900

**Ref. 11490:** CONT'ELU SP 360° vision - Compatible with CisBio

**Ref. 11690:** CONT'ELU SP 360° vision - Compatible with Covidien/Mallinckrodt

**Ref. 11495:** CONT'ELU with viewport

**Spare parts:**

**Ref. 11496:** Spare flat window for CONT'ELU

**Ref. 11499:** Spare lid for CONT'ELU and CONT'ELU SP

**Ref. 11391:** Spare cylindrical glass for CONT'ELU SP



## VIAL SHIELD

This vial shield is intended for the storage and transport of radioactive solutions contained in vials of 2, 10 or 30 ml.

	Lead glass thickness (mm)	Perspex® thickness (mm)	External diameter (mm)	Internal diameter (mm)	Height (mm)	Weight (kg)
<b>Vial shield</b>	<b>21.5</b>	<b>-</b>	<b>80</b>	<b>37</b>	<b>100</b>	<b>2</b>
<b>Perspex® adaptater 10 ml</b>	<b>-</b>	<b>10</b>	<b>36,44</b>	<b>31</b>	<b>67,51</b>	<b>-</b>
<b>Perspex® adaptater 2 ml</b>	<b>-</b>	<b>10</b>	<b>26,15</b>	<b>21</b>	<b>56,72</b>	<b>-</b>

**NB:** It is supplied with its 2 Perspex® adapters for use with 10-ml and 2-ml vials.

**Ref. 11410:** Lead-glass vial shield

**Spare parts :**

**Ref. 11411:** Spare lead glass for MEDI 24

**Ref. 11420:** Perspex® adapter for 10 mL vials

**Ref. 11430:** Perspex® adapter for 2 mL vials



# TUNGSTEN SYRINGE SHIELDS

The syringe shields are designed for easy and quick insertion and withdrawal of the syringe: with one click, the syringe is safe ready for handling. Our syringe shields can be fully dismantled and decontaminated.

## THE KEY POINTS

- MEDICLIC®: quick insertion and withdrawal
- Magnified vision
- Glass can be changed by customer



## The range

- Available in High Energy, Low & Medium Energy and Beta
- Available in various sizes to fit all syringes on the market

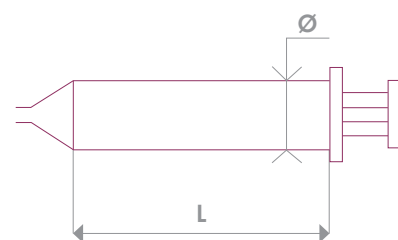
# SYRINGE SHIELDS

## MEDICLIC® - LOW & MEDIUM ENERGY

Lead glass and tungsten shielding

- Tungsten thickness: 2 mm
- Lead glass thickness: 6 mm

Modèle	Syringe length (mm)	Mediclic® reference	Replacement glass reference
<b>MEDICLIC® Medium Energy</b> 1-ml short	<b>70</b>	<b>11453</b>	<b>11454</b>
<b>MEDICLIC® Medium Energy</b> 1-ml long	<b>74</b>	<b>11451</b>	<b>11452</b>
<b>MEDICLIC® Medium Energy</b> 2-ml	<b>52</b>	<b>11463</b>	<b>11464</b>
<b>MEDICLIC® Medium Energy</b> 2.5-ml	<b>58</b>	<b>11461</b>	<b>11462</b>
<b>MEDICLIC® Medium Energy</b> 3-ml short	<b>62</b>	<b>11493</b>	<b>11494</b>
<b>MEDICLIC® Medium Energy</b> 3-ml long	<b>68</b>	<b>11491</b>	<b>11492</b>
<b>MEDICLIC® Medium Energy</b> 5-ml short	<b>59</b>	<b>11473</b>	<b>11474</b>
<b>MEDICLIC® Medium Energy</b> 5-ml long	<b>62</b>	<b>11471</b>	<b>11472</b>
<b>MEDICLIC® Medium Energy</b> 10-ml short	<b>73</b>	<b>11483</b>	<b>11484</b>
<b>MEDICLIC® Medium Energy</b> 10-ml long	<b>82</b>	<b>11481</b>	<b>11482</b>



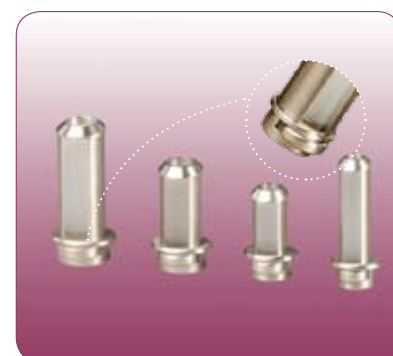
Syringe shield High energy  
+ Low & Medium energy

## MEDICLIC® - HIGH ENERGY

Lead glass and tungsten shielding

- Tungsten thickness: 5 mm
- Lead glass thickness: 9 mm

Modèle	Syringe length (mm)	Mediclic® reference	Replacement glass reference
<b>MEDICLIC® High Energy</b> 1-ml short	<b>70</b>	<b>11653</b>	<b>11654</b>
<b>MEDICLIC® High Energy</b> 1-ml long	<b>74</b>	<b>11651</b>	<b>11652</b>
<b>MEDICLIC® High Energy</b> 2-ml	<b>52</b>	<b>11663</b>	<b>11664</b>
<b>MEDICLIC® High Energy</b> 2.5-ml	<b>58</b>	<b>11661</b>	<b>11662</b>
<b>MEDICLIC® High Energy</b> 3-ml short	<b>62</b>	<b>11693</b>	<b>11694</b>
<b>MEDICLIC® High Energy</b> 3-ml long	<b>68</b>	<b>11691</b>	<b>11692</b>
<b>MEDICLIC® High Energy</b> 5-ml short	<b>59</b>	<b>11673</b>	<b>11674</b>
<b>MEDICLIC® High Energy</b> 5-ml long	<b>62</b>	<b>11671</b>	<b>11672</b>
<b>MEDICLIC® High Energy</b> 10-ml short	<b>73</b>	<b>11683</b>	<b>11684</b>
<b>MEDICLIC® High Energy</b> 10-ml long	<b>82</b>	<b>11681</b>	<b>11682</b>



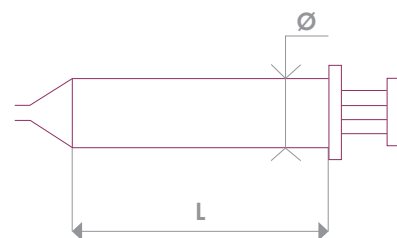
# SYRINGE SHIELDS

## MEDICLIC® - BETA EMITTERS

Made from PMMA (polymethyl methacrylate)

Thickness: 10 mm

Modèle	Diameter of Mediclic® (mm)	Syringe length (mm)	Mediclic® ref.
Short 1 cc Beta Mediclic®	8,5	70	11753
Long 1 cc Beta Mediclic®	8,5	74	11751
2 cc Beta Mediclic®	11,5	52	11763
2.5 cc Beta Mediclic®	11,5	58	11761
Short 3 cc Beta Mediclic®	11,5	62	11793
Long 3 cc Beta Mediclic®	11,5	68	11791
Short 5 cc Beta Mediclic®	15,5	59	11773
Long 5 cc Beta Mediclic®	15,5	62	11771
Short 10 cc Beta Mediclic®	18,5	73	11783
Long 10 cc Beta Mediclic®	18,5	82	11781



Beta-emitter syringe shield



# EXPOSURE-REDUCING FDG COVER

This cover provides more than 90 % reduction in hand exposure when drawing off FDG. Once the FDG pot is in the hot cell, the exposure-reducing cover is installed in place of the manufacturer's cover. Thanks to its centering cone, it fits perfectly on the pot. The FDG can then be drawn off in complete safety using a syringe fitted with a needle LP.

## THE KEY POINTS

- Excellent radioprotection with 20 mm of tungsten
- Centring cone



**Ref. 11405:** Exposure-reducing FDG cover (for Cisbio)

**Ref. 11406:** Exposure-reducing FDG cover (for AAA)





# SYRINGE TRANSPORT



# SYRINGE TROLLEY

The trolley is designed to protect the operator during the transport of prepared FDG syringes of FDG for transfer to the Injection Room.

## THE KEY POINTS

- Protects the operator during transport of syringes
- Adapted to each situation



## The range

- Syringe trolley
- Shield hatch
- Carrying case

# SYRINGE TRANSPORT

## SYRINGE TROLLEY - HIGH ENERGY

Compact, stable and very handy.

Lead thickness (mm)	Depth (mm)	Width (mm)	Height (mm)	Weight (kg)
30	515	293	888	62

Ref. 11282: Small high energy syringe transport trolley



## SHIELDED HATCH

Lead thickness (mm)	Width (mm)	Depth (mm)
2,5	440	440

Ref. 11100: Shielded hatch



## CARRYING CASE

	Lead thickness (mm)	Depth (mm)	Height (mm)	Width (mm)	Weight (kg)
Low and Medium Energy	3	260	60	90	4,8
High Energy	10	260	60	90	14

Ref. 11040: Carrying case, Low and Medium Energy

Ref. 11041: Carrying case, High Energy





# INJECTION

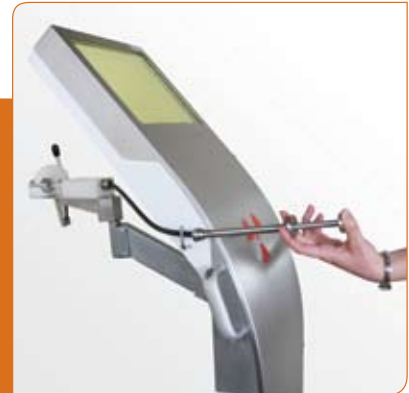


# SHIELDS

These mobile shields must be used to protect the operator during the injection of the radio-isotopes. They can be fitted with a remote injector on a cantilever arm, thus providing optimum protection during the injection.

## THE KEY POINTS

- Easy to use
- Manoeuvrable and ergonomic
- Feet can be pass under the bed



## The range

- Fixed height or adjustable
- With a tray or remote injector

# MOBIL INJECTION SHIELDS

## ERGO INJECTION SHIELD

LOW & MEDIUM ENERGY OR HIGH ENERGY

### Accessories:

- Syringe tray
- 4 wheels, 2 with brakes

	Lead thickness (mm)	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Low and Medium Energy	15	900	550	1550	85
High Energy	15	900	550	1550	120

Ref. 11212: ERGO High Energy injection shield

Réf. 11213: ERGO Low and Medium Energy injection shield



## ADJUSTABLE INJECTION SHIELD

HIGH ENERGY

### Accessories:

- Syringe tray
- 4 wheels, 2 with brakes

Screen height adjustable to suit the operator:

Pedal-operated height adjustment system (hydraulic).

Lead thickness (mm)	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
30	520	790	De 1400 à 1600	310

Ref. 11270: High Energy, adjustable injection shield



# INJECTOR / INJECTION SYSTEM

## MEDI PUSH

- Compatible with ERGO and adjustable height shields
- Fixed on arm

Ref. 11271: MEDI PUSH



## MEDICOMBI

MEDICOMBI is a movable automatic injector, easy to manoeuvre and providing radiation protection for the technician.

	Width (mm)	Depth (mm)	Height (mm)
Movable, shielded automatic injector for FDG	430	520	1310

Ref. 20200: MEDICOMBI automatic injector

Ref. 20221: Remote control option

Ref. 20210: Set of consumables





# WASTE MANAGEMENT



# SOLID WASTES

The shielded sharps bin for bench-top use is intended for the disposal of contaminated needles and to provide biological protection of the operator.

## THE KEY POINTS

- Biological protection
- Several volumes



## The range

- Shielded sharps bins
- Shielded wastebins
- Shielded drums

# SOLID WASTES

## SHIELDED SHARPS BINS

Energy	Volume (L)	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Basse et Moyenne Energie	1,5	3	200	220	208	8
Haute Energie	1,5	16	200	220	208	37

**Ref. 11337:** Low & Medium Energy sharps bin 1,5L

**Ref. 11338:** High Energy sharps bin 1,5 L

**Ref. 14541:** Plastic containers for contaminated needles, 1.5 L (sold in lots of 20)

**Ref. 14545:** Plastic containers for contaminated needles, 1.9 L (sold in lots of 20)



## MEDI 64 SHIELDED WASTEBINS

The Shielded wastebin on wheels is made to receive contaminated disposable material. For a comfort and a protection even larger, it is provided with a pivoting trap door to open the lid wide.

Energy	Volume (L)	Lead thickness (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Low & Medium Energy	20	10	380	650	380	90
Low & Medium Energy	55	10	420	760	420	180
High Energy	20	16	380	650	380	140
High Energy	55	16	380	760	420	250

**Ref. 11314:** MEDI 64 20 20-litre wastebin

**Ref. 11304:** MEDI 64 55 55-litre wastebin

**Ref. 11316:** MEDI 64 20 TEP 20-litre wastebin

**Ref. 11306:** MEDI 64 55 TEP 55-litre wastebin



# SOLID WASTES

## SHIELDED DRUM

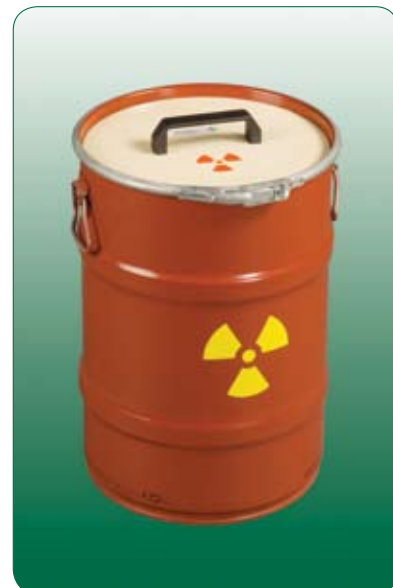
The drums can be fitted with a wheel base.

*(contact us)*

	Lead thickness (mm)	Ø (mm)	Height (mm)	Weight (kg)
60 litres	2,5	350	600	25
30 litres	2,5	290	420	15

**Ref. 11060:** 30 litres shielded drum

**Ref. 11050:** 60 litres shielded drum



# GAS WASTES

The gas and aerosol venting system is designed to capture gases and aerosols. It is integrated in the ceiling of your work area and is equipped with an exhaust fan and an activated-charcoal filter. With the 3 articulated tubular arms, the dome hood can easily be brought up to the patient and regulate the speed of extraction.

## THE KEY POINTS

- Medical staff protection
- Environmental protection by activated charcoal filter



## GAS VENTING SYSTEM

### Extraction system:

- 1 exhaust fan with speed control
  - Operating radius: 1.50 m
  - Exhaust flow rate: 585 m<sup>3</sup>/h (max.)
  - Noise level: 72 dBA
- 1 activated-charcoal exhaust filter
  - Flow rate: 300 m<sup>3</sup>/h

	Operating radius (mm)	Ø of tube (mm)
Suction arm	1,50	75

Ref. 13571: Gas venting system



# LIQUID EFFLUENTS

Intended for the collection of radioactive liquid effluents coming from Nuclear Medicine hot laboratories and radioactive effluents from the patients, our systems consist of 2 tanks of 1000, 1500, 2000 or 3000 litres (*contact us for other dimensions*).

The tanks are filled and emptied alternately. Once one tank is full, its content is held for the time required for the decay of its radioactivity.

## THE KEY POINTS

- Remote tank management
- Touch-screen control
- Alarm and log manager
- Adaptable according to your installation



## The range

- Set of 2 tanks of 1000, 1500, 2000 or 3000 litres in the tank room
- Set of 2 tanks of 160, 220 or 280 litres under bench



## Options

- Lift pumps
- Recirculation pumps



# LIQUID EFFLUENTS

## SEPARATOR TOILETS

	Width (mm)	Depth (mm)
Separator toilets	460	720

Ref. 12500: Separator toilets



## WORKBENCHES WITH SINK

	Depth: 630 (mm)		Depth: 780 (mm)	
	Left-handed sink	Right-handed sink	Left-handed sink	Right-handed sink
Length: 1200 (mm)	Ref. 13275	Ref. 13225	Ref. 13270	Ref. 13220
Length: 1500 (mm)	Ref. 13265	Ref. 13215	Ref. 13260	Ref. 13210
Length: 1760 (mm)	Ref. 13255	Ref. 13205	Ref. 13250	Ref. 13200
Corner workbench	Ref. 13395		Ref. 13390	



## TANKS UNDER BENCH

- Bench in Corian® (11 mm)
- Tanks in lead
- Housing in stainless steel

	Capacity (l)	Lead thickness (mm)	Length (mm)	Width (mm)	Height (mm)
Tanks under bench	2 x 160	2	2 x 1200	630	900
	2 x 220	2	2 x 1500	780	900
	2 x 280	2,5	2 x 1760	780	900

Ref. 14020: Tanks under bench 2 x 160 litres

Ref. 14021: Tanks under bench 2 x 220 litres

Ref. 14022: Tanks under bench 2 x 280 litres



# DECAY TANKS & TANKS UNDER BENCH

## DECAY TANKS

Decay tanks	Capacity (L)
	2 x 3000
	2 x 2000
	2 x 1500
	2 x 1000

**Ref. 14000:** Decay tanks 2 x 3000 litres

**Ref. 14007:** Decay tanks 2 x 2000 litres

**Ref. 14012:** Decay tanks 2 x 1500 litres

**Ref. 14005:** Decay tanks 2 x 1000 litres





# HOT LABORATORY EQUIPMENT



# SHIELDS

To carry out your quality controls safely, use the protection of our bench shields.  
To complete the radioprotection of your premises, the movable shields can be adapted to all situations.

## THE KEY POINTS

- Radioprotection
- Simplicity
- Wide choice



## The range

- Available in fixed, bench-mounted version:
  - Low & Medium Energy
  - High Energy
  - Beta Emitters
- Available in movable, floor-standing version:
  - Large window
  - Small window
  - Without window



# SHIELDS

## BENCH SHIELDS

Energy	Lead thickness (mm)	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Low Energy	2,5	390	400	480	15
Low Energy	5	390	400	480	25
Medium Energy	15	390	400	480	75
High Energy	30	310	300	530	100
Beta Emitters	Perspex®	300	430	430	-

Ref. 11000: Bench shield, L&M Energy

Ref. 11010: Bench shield, L&M Energy

Ref. 11020: Bench shield, L&M Energy

Ref. 11035: Bench shield, High Energy

Ref. 11026: Bench shield, Beta Emitters



## MOVABLE SHIELDS

	Lead thickness (mm)	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Large window	2,5	1400	700	1450	120
Small window	2,5	1100	700	1450	90
Without window	2,5	1400	700	1450	110

Ref. 11200: Shield, L&M Energy, opaque

Ref. 11230: Shield, L&M Energy, large window

Ref. 11250: Shield, L&M Energy, small window



# FURNITURE & WORKBENCHES

## SHIELDED WORKBENCHES

### Equipment:

- Shielded work surface is made of Corian® (no exposed joints) with raised splashback.  
Biological shielding under the work surface: 15 mm of lead.  
Raised biological shield (height: 175 mm) on the front face, lead 30 mm thick.
- 380 x 380 mm movable shield sliding horizontally on rails, with a lead-glass window 56 mm thick.

	Depth: 720 (mm)
Length: 2000 (mm)	Ref. 11160
Length: 1760 (mm)	Ref. 11170
Length: 1500 (mm)	Ref. 11180
Length: 1200 (mm)	Ref. 11185
Length: 1000 (mm)	Ref. 11190

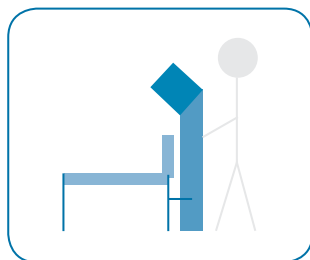


Diagram showing lead and lead-glass thicknesses

- 15 mm of lead
- 30 mm of lead
- 56 mm of lead glass

Height of the work surface: 900 mm  
Height of top of shield: 1500 mm

## DRY WORKBENCHES

	Depth: 630 (mm)	Depth: 780 (mm)
Length: 1200 (mm)	Ref. 13025	Ref. 13020
Length: 1500 (mm)	Ref. 13015	Ref. 13010
Length: 1760 (mm)	Ref. 13005	Ref. 13000
Length: 630 (mm)	Ref. 13035	Ref. 13030
Workbench	Ref. 13045	Ref. 13040



# FURNITURE & WORKBENCHES

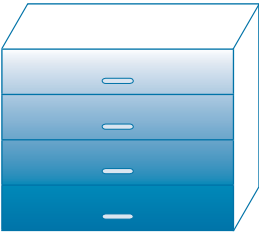
## WORKBENCHES WITH SINK

	Depth: 630 (mm)		Depth: 780 (mm)	
	Left-handed sink	Right-handed sink	Left-handed sink	Right-handed sink
Length: 1200 (mm)	Ref. 13275	Ref. 13225	Ref. 13270	Ref. 13220
Length: 1500 (mm)	Ref. 13265	Ref. 13215	Ref. 13260	Ref. 13210
Length: 1760 (mm)	Ref. 13255	Ref. 13205	Ref. 13250	Ref. 13200
Workbench	Ref. 13395		Ref. 13390	

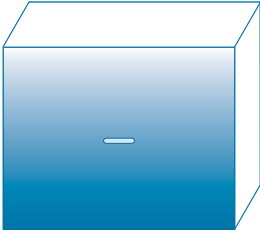


## FURNITURE

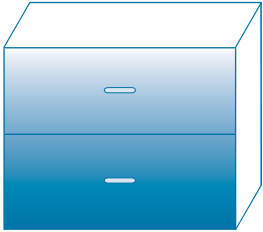
### 3 single units:



**Ref. 13400:** Single unit with 4 drawers

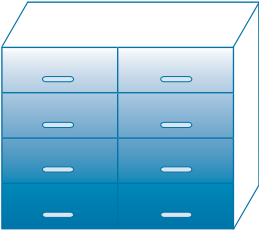


**Ref. 13410:** Single unit with 1 door  
**Ref. 13430:** Single unit with 1 door under sink

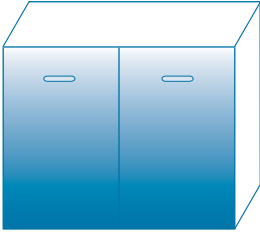


**Ref. 13420:** Single unit with 1 door and 1 drawer

### 2 double units:



**Ref. 13480:** Double unit with 4 drawers



**Ref. 13440:** Double unit with 2 doors





# CONSUMABLE ITEMS & SPARE PARTS



# CONSUMABLE ITEMS & SPARE PARTS

## GLOVES

Size	L&R/Ambidextrous	Length: 500 mm	Length: 700 mm
6	L&R	Ref. <b>14506</b>	-
7	Ambidextrous	Ref. <b>14507</b>	Ref. <b>14510</b>
8	Ambidextrous	Ref. <b>14508</b>	Ref. <b>14511</b>
9	Ambidextrous	Ref. <b>14509</b>	-



## MAINTENANCE KIT FOR LAMINAR FLOW AND HOT CELLS

Description	Ref.
Maintenance kit for MEDIFLUX	<b>13560</b>
Maintenance kit for Medi 2000 Hot Cell, 4 glove ports	<b>14110</b>
Maintenance kit for Medi 2000 Hot Cell, FDG, 2 glove ports	<b>14111</b>
Maintenance kit for Medi 2000 IODE Hot Cell	<b>14115</b>
Maintenance kit for Medi 5000 Hot Cell, 4 glove ports, Class C	<b>14112</b>
Maintenance kit for Medi 5000 Hot Cell, 4 glove ports, Class A	<b>14114</b>
Maintenance kit for Medi 5000 Hot Cell, 2 glove ports, Class C	<b>14116</b>
Maintenance kit for Medi 5000 Hot Cell, 2 glove ports, Class A	<b>14117</b>
Maintenance kit for Medi 5000 Research Hot Cell, 4 glove ports	<b>14118</b>
Maintenance kit for Medi 9000 Hot Cell, 4 glove ports, Class C	<b>14130</b>
Maintenance kit for Medi 9000 Hot Cell, 4 glove ports, Class A	<b>14131</b>
Maintenance kit for Medi 9000 Hot Cell, 2 glove ports, Class C	<b>14132</b>
Maintenance kit for Medi 9000 Hot Cell, 2 glove ports, Class A	<b>14133</b>
Maintenance kit for Medi 9000 Research Hot Cell, 4 glove ports	<b>14134</b>





# CONSUMABLE ITEMS & SPARE PARTS

## FILTERS

Description	Ref.
HEPA input filter, cylindrical, 30 m³/h, for hot cells	<b>14113</b>
HEPA input filter, cylindrical, 50 m³/h, for hot cells	<b>14120</b>
HEPA input filter, cylindrical, 50 m³/h, remote air input, for glove boxes	<b>14121</b>
HEPA input filter, cylindrical, 5 m³/h, for airlocks or generator compartments	<b>14123</b>
Activated-carbon output filter, 20 m³/h	<b>14140</b>
Activated-carbon output filter, 300 m³/h	<b>14150</b>
Activated-carbon output filter, 600 m³/h	<b>14151</b>
HEPA input filter, dihedral, 450 m³/h	<b>14155</b>
Activated-carbon output filter, cylindrical, 10 m³/h	<b>14160</b>
Mixed filter, 25 m³/h	<b>14161</b>
HEPA filter, 300 x 300, for laminar flows	<b>14164</b>

## SPARE PARTS FOR HOT WATER BATH

Description	Ref.
Holder block, 3 wells	<b>12410</b>
Holder block, 6 wells	<b>12420</b>
Thermometer	<b>12430</b>
Block-lifting tongs or rod	<b>12440</b>



# CONSUMABLE ITEMS & SPARE PARTS

## SPARE PARTS FOR TANKS

Description	Ref.
Level sensor	<b>14002</b>
Overflow detector	<b>14003</b>
Level gauge	<b>14004</b>
Internal pump	<b>14034</b>

## SPARE PARTS FOR HOT CELLS

Description	Ref.
Lift cable for MEDI 2000	<b>14030</b>
Left-hand door handle for MEDI 2000	<b>14031</b>
Right-hand door handle for MEDI 2000	<b>14032</b>
Exhaust fan (spare)	<b>14170</b>
MAGNEHELIC 0/500 pressure gauge	<b>14171</b>
Fluorescent tube for MEDI 2000, 4 glove ports	<b>14175</b>
UV lamp for MEDI 2000, 4 glove ports	<b>14176</b>
Fluorescent tube for MEDI 2000, 2 glove ports	<b>14177</b>
UV lamp for MEDI 2000, 2 glove ports	<b>14178</b>
Ring for glove port (1 set of 4)	<b>14537</b>



## SPARE PARTS FOR ELUTION CONTAINERS

Description	Ref.
Replacement glass for CONT'ELU SP a 360° vision	<b>11391</b>
Replacement glass for CONT'ELU	<b>11496</b>
Replacement stopper for CONT'ELU and CONT'ELU SP	<b>11499</b>



# CONSUMABLE ITEMS & SPARE PARTS

## SPARE PARTS FOR VIAL SHIELDS

Description	Ref.
Replacement glass for MEDI 24	<b>11411</b>
Conical stopper for MEDI 24	<b>11421</b>
Replacement glass for ZEVALIN container	<b>11591</b>



## SPARE PARTS FOR SYRINGE SHIELDS

Description	Ref.
Replacement glass for 1 mL L&M-Energy Mediclic®	<b>11452</b>
Replacement glass for 2 mL L&M-Energy Mediclic®	<b>11464</b>
Replacement glass for 2.5 mL L&M-Energy Mediclic®	<b>11462</b>
Replacement glass for long, 3 mL L&M-Energy Mediclic®	<b>11492</b>
Replacement glass for short, 3 mL L&M-Energy Mediclic®	<b>11494</b>
Replacement glass for 5 mL L&M-Energy Mediclic®	<b>11472</b>
Replacement glass for long, 10 mL L&M-Energy Mediclic®	<b>11482</b>
Replacement glass for short, 10 mL L&M-Energy Mediclic®	<b>11484</b>
Replacement glass for 1 mL High-Energy Mediclic®	<b>11652</b>
Replacement glass for 2 mL High-Energy Mediclic®	<b>11664</b>
Replacement glass for 2.5 mL High-Energy Mediclic®	<b>11662</b>
Replacement glass for long, 3 mL High-Energy Mediclic®	<b>11692</b>
Replacement glass for short, 3 mL High-Energy Mediclic®	<b>11694</b>
Replacement glass for 5 mL High-Energy Mediclic®	<b>11672</b>
Replacement glass for long, 10 mL High-Energy Mediclic®	<b>11682</b>
Replacement glass for short, 10 mL High-Energy Mediclic®	<b>11684</b>



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**Trolleys** [4-5-34-35]  
**Tungsten** [28-29]

## V

**Vial shield** [27-59]

## W

**Wastes** [41-45]  
**Workbenches** [52-53]  
**Workbench with sink** [47-53]

## NOTES

Blank lined paper with horizontal ruling lines.