

# L-BLOCK

## RANGE OF SELF-CONTAINED PROTECTIVE SCREENS FOR RADIOPHARMACEUTICAL PREPARATIONS

### ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Mediclic syringe shields HE
- Safety Storage range of shielded cabinets

### HIGH ENERGY



L-Block Simple



L-Block Cave Simple

The “L-Block” range of shielded screens with a radiation protection viewing window is designed in bactericidal composite materials by Lemer Pax and is available in 5 products of different configurations to meet all applications in open systems during the handling of high-energy radiopharmaceuticals in nuclear medicine PET activity. Preparations, measurements and fractionating are possible in manual or automatic mode depending on the L-Block model selected. The radiation protection of this wide range of shielded screens, provided to reduce the full-body exposure of users, consists in 60 mm lead shields and 104 mm thick Diamond Glass scratch and chemical resistant laminated lead glass. In order to offer the same level of ergonomics for any configuration, all models feature a shielded window that can be tilted from 20 to 50°.



L-Block Telemetry



L-Block Cave with dose calibrator



L-Block Cave Automatic

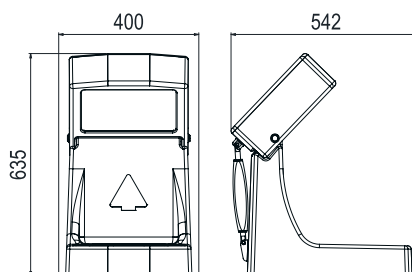
# L-BLOCK SIMPLE

HIGH ENERGY



As an entry-level model, the **L-Block Simple** is the shielded screen for **quick and easy handling**. With its **small footprint**, it is the ideal screen **for benchtop installation**.

## EFFECTIVE DIMENSIONS (mm)



## ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Mediclic syringe shields HE
- Safety Storage range of shielded cabinets

## CHARACTERISTICS

### General

**External dimensions\*:** L 400 x D 542 x H 635 mm

**Weight:** 220 kg

**Materials:** composite

**Exterior finish:** RAL 9016 bactericidal

**Shielding thickness:** 60 mm lead shielding over all sides.

### Radiation protection

**Maximum radioactivity that can be handled to obtain a dose rate less than 25 µSv/h at 5 cm from the walls\*\***

Radionuclides	Maximum radioactivity that can be handled
<sup>18</sup> F	98 GBq
<sup>131</sup> I	71 GBq
<sup>68</sup> Ga	10 GBq
<sup>177</sup> Lu	185 GBq

Calculation conditions: sources positioned in a 30 mm lead pot located behind the L-Block front panel

### Work surface

**Dim.:** L 311 x D 312 mm

**Work surface height:** 82 mm

**Work surface finish:** RAL 9016 bactericidal

### Lead glass viewing window

**Total dimensions:** L 337 x D 310 x Th. 128 mm

**Angle:** adjustable from 20° to 50°

**Adjustment system:** handwheel

**Shielding:** 55 mm lead eq.

**Dimensions of the viewing window:** L 268 x W 165 x Th. 104 mm

**Diamond Glass lead glass density:** 4.36

### Options

**Compatible with the Safety Storage range:** contact us

**Non-shielded L-Block unit made to measure:** contact us

### Installation requirements

**Floor load:** 1,058 kg/m<sup>2</sup>

**Door passage width:** 500 mm

### Package

**Package dimensions:** L 400 x D 520 x H 800 mm

**Package weight (product without options):** 300 kg

**Ref.: 00004958**

\* The dimensions must be confirmed by a layout drawing

\*\*Regulations in ASNR Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"

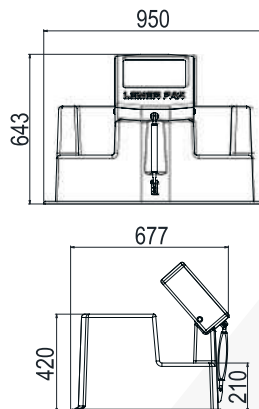
# L-BLOCK CAVE SIMPLE

HIGH ENERGY



The **L-Block Cave Simple** offers **additional radiation protection** through its shielded side walls and thus forms a **closed and secure handling environment** that eliminates any risk of contamination. It comes with a sturdy stainless steel load-distribution plate for easy installation.

## EFFECTIVE DIMENSIONS (mm)



\* The dimensions must be confirmed by a layout drawing

\*\*Regulations in ASNR Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"

## ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Medicic syringe shields HE
- Safety Storage range of shielded cabinets

## CHARACTERISTICS

### General

**External dimensions\*:** L 950 x D 677 x H 643 mm

**Weight:** 810 kg

**Materials:** composite

**Exterior finish:** RAL 9016 bactericidal

**Shielding thickness:** 60 mm lead shielding over all sides.

### Radiation protection

**Maximum radioactivity that can be handled to obtain a dose rate less than 25 µSv/h at 5 cm from the walls\*\***

Radionuclides	Maximum radioactivity that can be handled
<sup>18</sup> F	98 GBq
<sup>131</sup> I	71 GBq
<sup>68</sup> Ga	10 GBq
<sup>177</sup> Lu	185 GBq

Calculation conditions: sources positioned in a 30 mm lead pot located behind the L-Block front panel

### Work surface

**Dim.:** L 620 x D 336 mm

**Work surface height:** 80 mm

**Work surface finish:** RAL 9016 bactericidal

### Lead glass viewing window

**Total dimensions:** L 337 x D 310 x Th. 128 mm

**Angle:** adjustable from 20° to 50°

**Adjustment system:** handwheel

**Shielding:** 55 mm lead eq.

**Dimensions of the viewing window:**

L 268 x D 165 x Th. 104 mm

**Diamond Glass lead glass density:** 4.36

### Options

**Compatible with the Safety Storage range:** contact us

**Non-shielded L-Block unit made to measure:** contact us

### Installation requirements

**Floor load:** 1,254 kg/m<sup>2</sup>

**Door passage width:** 70 cm

**304L stainless steel dispensing plate (supplied):** L 950 x D 650 x Th. 12 mm

### Package

**Package dimensions:** L 1,000 x D 750 x H 940 mm

**Package weight (product without options):** 900 kg

**Ref.:** 00017462

# L-BLOCK CAVE WITH DOSE CALIBRATOR

HIGH ENERGY



## ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Mediclic syringe shields HE
- Safety Storage range of shielded cabinets



## CHARACTERISTICS

### General

**External dimensions\*:** L 989 x D 702 x H 793 mm

**Weight:** 860 kg

**Materials:** composite

**Exterior finish:** RAL 9016 bactericidal

**Standard equipment:** Accurion<sup>226®</sup> dose calibrator chamber 2/3 (Class Im medical device) with 25 mm lead peripheral shielding

**Shielding thickness:** 60 mm lead shielding over all sides.

### Radiation protection

**Maximum radioactivity that can be handled to obtain a dose rate less than 25 µSv/h at 5 cm from the walls\*\***

Radionuclides	Maximum radioactivity that can be handled
<sup>18</sup> F	98 GBq
<sup>131</sup> I	71 GBq
<sup>68</sup> Ga	10 GBq
<sup>177</sup> Lu	185 GBq

Calculation conditions: sources positioned in a 30 mm lead pot located behind the L-Block front panel

### Work surface

**Dim.:** L 630 x D 346 mm

**Work surface height:** 80 mm

**Work surface finish:** RAL 9016 bactericidal

### Lead glass viewing window

**Total dimensions:**

L 337 x D 310 x Th. 128 mm

**Angle:** adjustable from 20° to 50°

**Adjustment system:** handwheel

**Shielding:** 55 mm lead eq.

**Dimensions of the viewing window:**

L 268 x D 165 x Th. 104 mm

**Diamond Glass lead glass density:** 4.36

### Options

**Posilift:** pneumatic dose calibrator dipper raising and lowering system with foot control

**Compatible with the Safety Storage range:** contact us

**Non-shielded L-Block cabinet:** contact us

### Installation requirements

**Floor load:** 1,286 kg/m<sup>2</sup>

**Dispensing plate:** 304L stainless steel  
L 950 x D 650 x Th. 12 mm

**Door passage width:** 80 cm

### Package

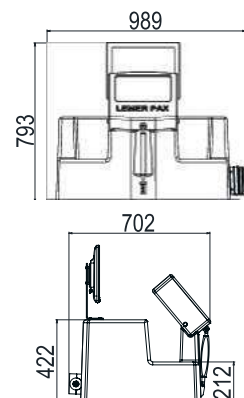
**Package dimensions:** L 1,000 x D 750 x H 940 mm

**Package weight (product without options):** 1,000 kg

**Ref.:** 00007292

The **L-Block Cave with dose calibrator** benefits from the **closed and secure environment** of the L-Block Cave with additional essential equipment to **perform radioactive source measurements: Accurion<sup>226®</sup> dose calibrator (class Im medical device)**. It is supplied with a **measurement readout screen** and **sample dipper**, Lerner Pax offers the **option of a Posilift source lift**, providing users with considerable reduction in hand and finger exposure with this pneumatic foot-operated dose calibrator dipper raising system.

## EFFECTIVE DIMENSIONS (mm)



\* The dimensions must be confirmed by a layout drawing

\*\*Regulations in ASN Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"



# L-BLOCK CAVE AUTOMATIC

HIGH ENERGY



DIAMOND GLASS



## ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Mediclic syringe shields HE
- Safety Storage range of shielded cabinets

The **L-Block Cave Automatic** is the “**all inclusive**” model of the range since it also features, in addition to the advantages of the other configurations, an **automatic patient dose collection system**. The **multidose radiopharmaceutical vial** is positioned with its transport pot in the centre of the L-Block, behind the shielded lead glass window. **After the specially designed Lemer Pax sampling kit** has been inserted, the vial is fractionated by **remote control**. **Dose measurement is directly performed**. A **filling detection system secures the samples** and alerts the operator in case of malfunction. With this system, the dose is packaged in a specific cartridge equipped with a tungsten shield and is ready for administration to the patient with one of the Manujet or Manujet Shield injection units.

## CHARACTERISTICS

### General

**External dimensions\*:** L 1,059 x D 672 x H 791 mm

**Weight:** 901 kg

**Exterior finish:** bead blasted 304L stainless steel

#### Standard equipment:

- Accurion<sup>226</sup> dose calibrator (Class Im medical device)
- Posiflash sampling system with peristaltic pump
- Remote control
- Touchscreen
- 1 syringe cartridge
- 1 shielded syringe shield - 9 mm tungsten
- 1 electrical cabinet

**Shielding thickness:** 60 mm lead shielding over all sides.

### Radiation protection

**Maximum radioactivity that can be handled to obtain a dose rate less than 25 µSv/h at 5 cm from the walls\*\***

Radionuclides	Maximum radioactivity that can be handled
<sup>18</sup> F	98 GBq
<sup>131</sup> I	71 GBq
<sup>68</sup> Ga	10 GBq
<sup>177</sup> Lu	185 GBq

Calculation conditions: sources positioned in a 30 mm lead pot located behind the L-Block front panel

\* The dimensions must be confirmed by a layout drawing

\*\*Regulations in ASNR Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"

### Work surface

**Dim.:** L 644 x D 365 mm

**Work surface height:** 80 mm

**Work surface finish:** 304L bead blasted stainless steel

### Lead glass viewing window

#### Total dimensions:

L 337 x D 310 x Th. 128 mm

**Angle:** adjustable from 20° to 50°

**Adjustment system:** handwheel

**Shielding:** 55 mm lead eq.

#### Dimensions of the viewing window:

L 268 x D 165 x Th. 104 mm

**Diamond Glass lead glass density:** 4.36

### Associated consumables

**Vial sampler kit** Ref.: 00007030

**Syringe kit** Ref.: 00008218

### Options

**Additional shielded cartridge**

Ref.: 00008480

**Additional shielded syringe shield**

Ref.: 00021627

**Compatible with the Safety Storage range:** contact us

**Non-shielded L-Block cabinet:** contact us

### Installation requirements

**Floor load:** 1,504 kg/m<sup>2</sup>

**Dispensing plate:** 304L stainless steel

Dim.: L 950 x D 650 x Th. 12 mm

**Door passage width:** 80 cm

### Package

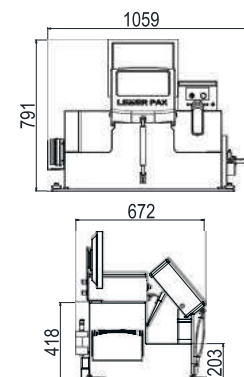
#### Package dimensions:

L 1,000 x D 750 x H 940 mm

**Package weight (product without options):** 940 kg

**Ref.:** 00024802

## EFFECTIVE DIMENSIONS (mm)





# L-BLOCK TELEMETRY

HIGH ENERGY



PET



DIAMOND  
GLASS



The **L-Block Telemetry** is the latest possible configuration in the L-Block range. It is **modular** and available **with or without side walls** and is equipped with a **remote control ball joint** positioned on the right or left (as required). The Lemer Pax design engineering team will be able to study the required configuration, depending on the intended use.

## ASSOCIATED PRODUCTS

- PHE vial shields
- Medi handling tongs
- Medicic syringe shields HE
- Safety Storage range of shielded cabinets

All models in the **L-Block** range are compatible with the **Safety Storage** range of radiation protection cabinets. The combination of these two product ranges offers users **secure working and storage environments** with considerable **space optimisation**, while ensuring appropriate **radiation protection** for the radioactive sources handled. **The high level of modularity** of these two families of products makes it possible to create **customised sets** as required, **adapted to the specific uses of each service**.

