

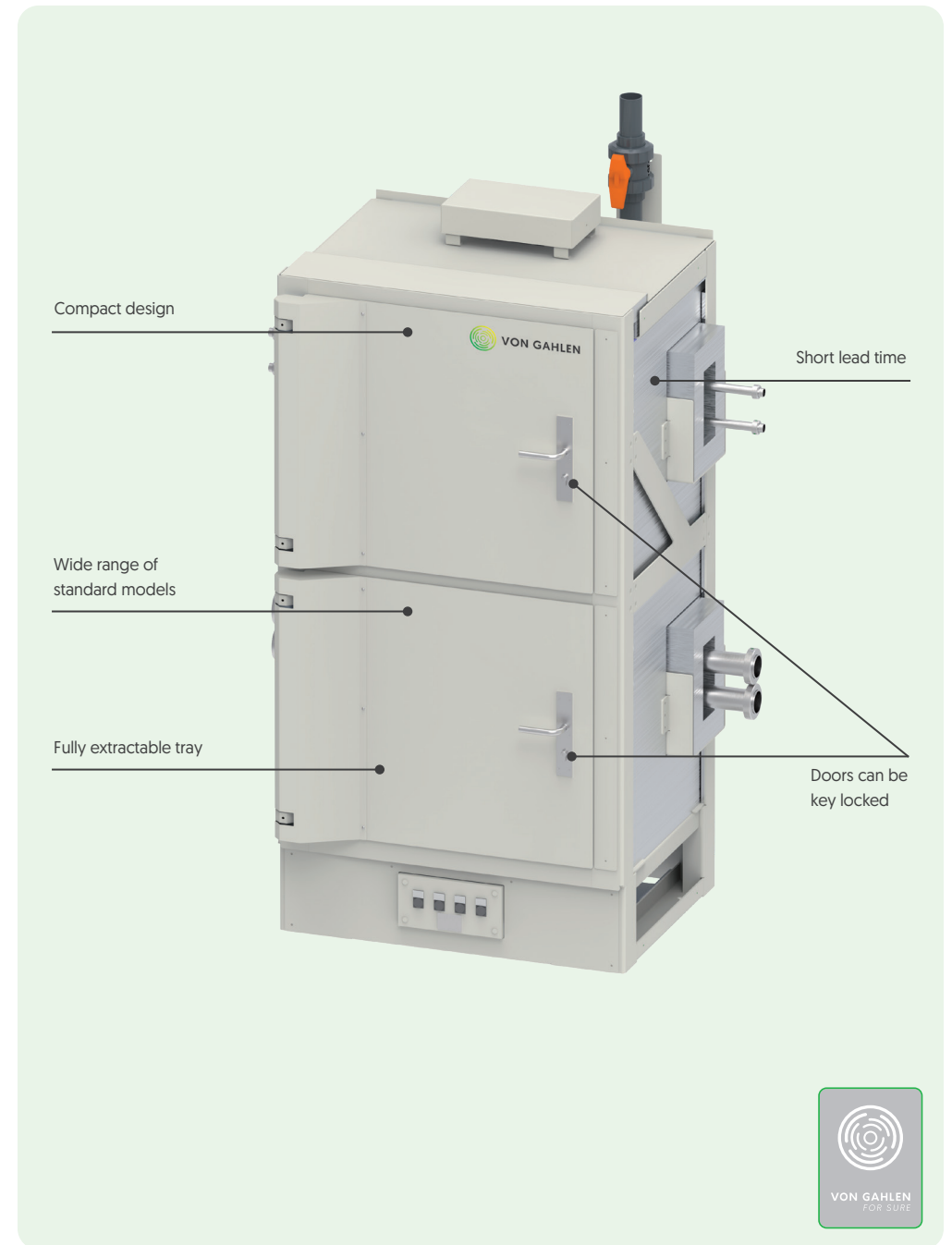
DUAL CHEMICAL ENCLOSURE

The dual chemical enclosure model is a perfect combination of value and functionality. Designed for radioisotope manufacturing, the DCE consists of two stacked compartments that can hold most synthesis models currently available. The DCE has 3 inches of lead shielding in all directions, also between the upper and lower compartments. It has multiple pass-throughs into both compartments for data cables, utility lines and cyclotron target lines. The electrical control box is mounted on the lower front side of the cell. The DCE can be added to existing cell configurations to expand radioisotope synthesis capabilities.

This Reliable solution, America's most used mini cell, has a small footprint and is configurable.

Several options, such as lead glass windows, gas connections, and even an additional shielded third compartment on top, are available for your synthesis box.

| Variant | DCE |
|--|---------------|
| Outside dimensions [INCH] (W*D*H) | 40 * 42 * 780 |
| Inside dimensions [INCH] (W*D*H) | 27 * 20 * 24 |
| Door opening [INCH] (WxH) | 27 * 24 |
| Weight @3 Inch shielding [LBS] excl feed trough shields on sides | 14,000 |
| Exhaust per compartment [CFM] | 15 |



The images shown are for illustrative purposes only. The actual product may vary in design, color, and specifications.

STANDARD FEATURES

Radiation protection

- 3 inch lead shielding in all walls, roof and floor.
- Internal back shields for air inlet and exhaust (2 inch lead shielding).

Sample & product handling

- Internal stainless steel 316L box with special micro-surface treatment.

Air handling/ distribution

- Air exhaust: including manual valve.

Cleaning

- Smooth interior surface finish for cleaning and decontamination.
- Exterior finish traffic white easy to clean.

System operation/ control

- Two electrical outlets inside each compartment, switchable per set from the front.
- LED internal light fixtures, switchable from the front.
- Light intensity min 500 Lux.

Utilities

- Sliding stainless steel tray: $\pm 25\frac{1}{2} * 15\frac{1}{2}$ inch (W*D). Max payload 90 LBS.
- Max useful height on the tray is 23 inches (H).
- Two openings in dividing floor for customer-supplied control cables. Each $2\frac{1}{2}$ Inch in diameter.
- Roxtec feed through unit in roof and floor for cables, tubing etc.

OPTIONAL FEATURES

- Lead glass window in front door 6 x 6 Inch (lead wall equivalent).
- Third compartment.
- Universal large diameter product transfer line system to other hot cells, 3 inch lead shielding, consisting out of two tubes with an inner diameter of $\frac{3}{8}$ " for connection to older units (pre 2026).
- Two tubes with an inner diameter $2\frac{3}{8}$ " with 3" shielding for connection to new units (2026 and up). These can also be added in later stage.
- Fully shielded target lines from floor level to hot cell with a Round $3\frac{5}{16}$ " clear opening for gas-, liquid- or waste lines.

