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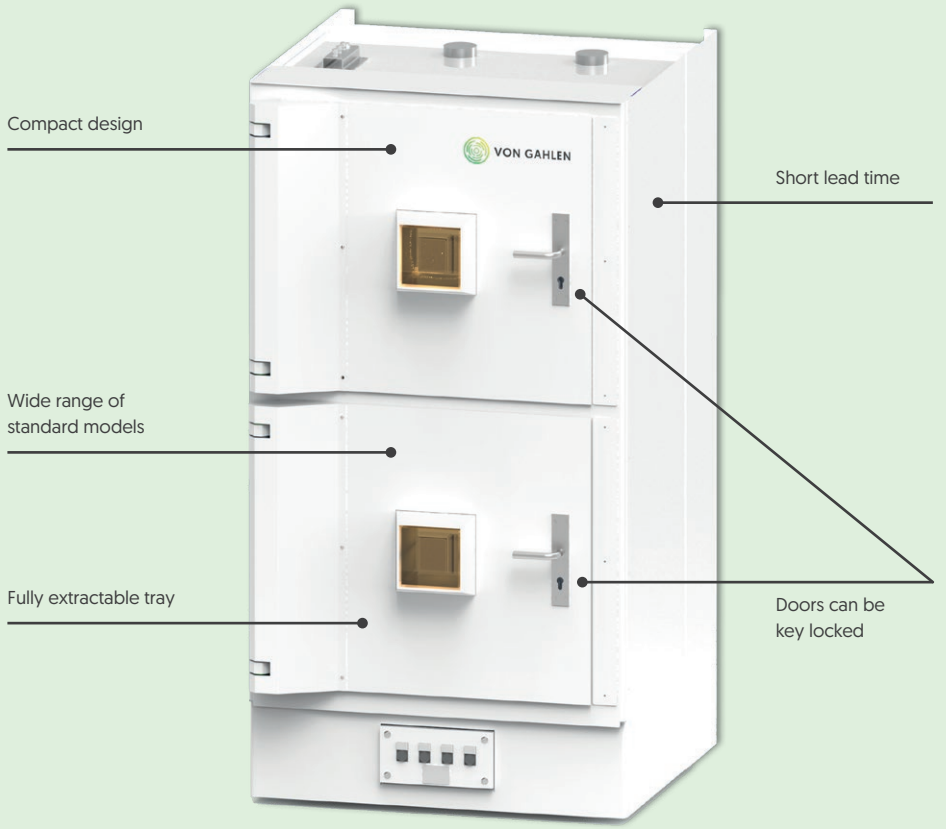
# DUAL CHEMICAL ENCLOSURE

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 highly configurable.

Several options, such as lead glass windows, gas connections, internal back shields, and even an additional third compartment on top, are available to customize your synthesis box.

| Variant | DCE |
|---|---|
| Outside dimensions (INCH) (W*D*H) | 40*40*74 |
| Inside dimensions (INCH) (W*D*H) | 27*20*24 |
| Door opening (INCH) (WxH) | 27*24 |
| Weight @3 Inch shielding (LBS) | 14,125 |
| Exhaust per compartment (CFM) | 15 |

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

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## STANDARD FEATURES

### Radiation protection

- 3-inch lead shielding in all walls, roof and floor.
- Fully shielded target lines from floor level to hot cell for two gas target lines, one corrugated guiding tube for multiple liquid target lines, and one waste line.

### Sample & product handling

- Internal stainless steel 316L box with special micro-surface treatment.
- Seal on the inner part of the door to maintain negative pressure when connected to running HVAC.

### Air handling/ distribution

- Air exhaust: including 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 from the front (in accordance with local requirements).
- LED internal light fixtures, switchable from the front.
- Light intensity min 500 Lux.

### Utilities

- Sliding stainless steel tray: ± 26*15 inch (W*H). Max payload 100 LBS.
- Max useful height on the tray is 22½ inches (H).
- Two openings on each roof, floor and dividing floor for customer-supplied control cables. Each two Inch in diameter.
- A total of four matching lead plugs for openings in the roof and floor.
- Fully shielded target lines from floor level to hot cell (lead wall equivalent).

## OPTIONAL FEATURES

- Lead glass window in front door 6x6 Inch (lead wall equivalent).
- Basic gas connections: three technical gasses and one compressed air.
- Extended gas regulation (additional panel required).
- Analog gauge for measuring the internal pressure (additional panel required).
- Digital pressure gauge instead of analog gauge (additional panel required).
- Internal HEPA / Charcoal exhaust filter.
- External HEPA / Charcoal exhaust filter, including 1-inch lead shielding.
- Internal back shields for air inlet and exhaust.
- External back shields for air inlet and exhaust will add 2 Inches to the installation depth.
- Radiation detection system.
- Extended cover plates to a specified height.
- Third compartment.
- Universal large diameter product transfer line system to other hot cells, 3 Inch lead shielding.

Cat 02. Product Sheet DCE-USA 20250122 Rev 1.2