

# GSR D1

## Optimal Solution for Gamma Irradiation in Research

### GSR D1

gamma irradiator is the optimal solution for gamma irradiation in radiobiological research.

High performance: large irradiation volume with a low surface dose rate.

#### Irradiation Chamber

The 400x400x400mm dimensions of the GSR D1's irradiation chamber combined with three irradiation levels enable optimum positioning of the object to be irradiated. Cable input/air access points are built into the irradiation chamber.

#### Dose Rate

The activity of the Cs-137 sources and thereby the dose rate can be optimised in accordance with the user's requirements.

#### Operation

The GSR D1 is user-friendly, thanks to the high quality of the reliable components and the unit's comprehensive safety system. A display shows the current operational status.

#### Radiation Safety

The GSR D1 is a self-shielding gamma irradiator with a maximum surface dose rate of  $<5\mu\text{Sv/h}$  at a maximum activity of 200 TBq Cs-137.

#### Safety Features

- key switch
- in the event of a black out, the irradiation cycle will continue for up to 300 min
- Independent locking of irradiation chamber and loading hatch
- Continuous monitoring and control of the unit before and during irradiation procedure



#### Technical Specification

##### Irradiation unit

Weight:	4300 kg
External dimensions:	Height: 1520 mm Width: 1210 mm Depth: 690 mm
Recommended room size:	min. 2 x 2 m
Electrical supply:	120V/230V
Room temperature:	+ 5 to + 40 °C
Battery back-up:	Yes

##### Irradiation chamber

Dimensions:	400 x 400 x 400 mm
Volume:	64 litres
Irradiation levels:	3
Cable input/air access points:	5

##### Radiation source

Source activity:	Cs-137 up to 200 TBq
Surface dose rate:	$< 5 \mu\text{Sv/h}$

##### Accessories (on request)

Collimators  
Attenuators  
Rodent holders

Manufactured and sold by:  
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