



Gamma-Service Medical GmbH



GSR D1

Gamma-Irradiator

The GSR D1 gamma irradiator is the optimal solution for gamma irradiation in radiobiological research. The combination of the large (64 l) irradiation capacity with a low surface dose rate delivers efficiency and safety in the laboratory.

Irradiation chamber

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

Dose Rate

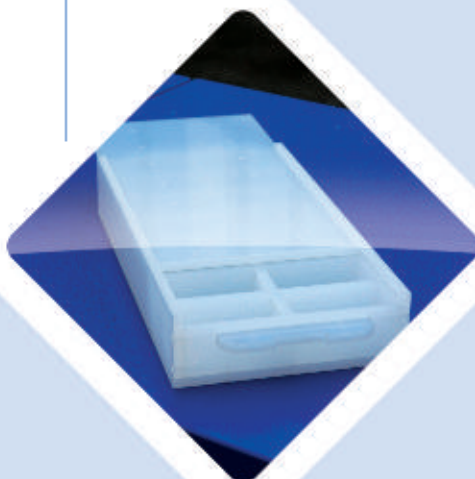
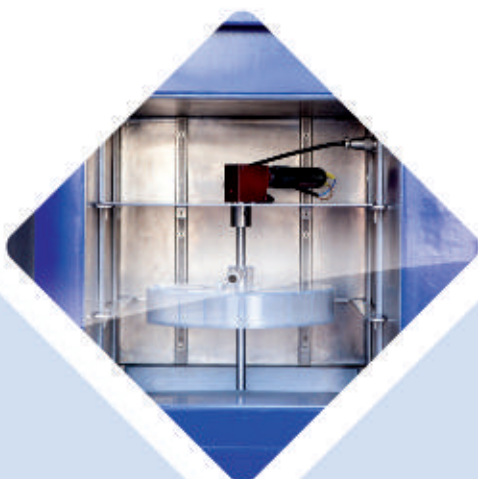
The activity of the Cs-137 sources and thereby the dose rate can be optimised in accordance with the user's requirements. A dose difference of <10% is achievable at irradiation level 2.

Operation

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

Radiation safety

The GSR D1 is a self-contained gamma irradiator with a maximum surface dose rate of <5 μ Sv/h at a maximum activity of 200TBq Cs-137.



SAFETY FEATURES

- 1 Operated by means of a key switch and security code
- 2 In the event of a power cut, the irradiation cycle will continue for up to 300 min
- 3 Independent locking of irradiation chamber and loading hatch
- 4 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
Certificate:	CE

Irradiation chamber

Dimensions:	400 x 400 x 400 mm
Volume:	64 litres
Irradiation levels:	4
Cable/air input access points:	5

Radiation source

Source activity:	Cs-137 up to 200 TBq
Surface dose rate:	< 5 µSv/h
Dose difference:	< 10% over a 300 mm square

Accessories

Collimators on request
Attenuators on request
Rodent holders
Rotating mice box



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