

GSR D1

Cs-137 Low Dose-Rate Research Gamma Irradiator



The gamma irradiation device GSR D1 is the optimal solution for gamma irradiation in the radiobiological research. The maximum irradiation capacity of 64 l in connection with a low surface dose rate offers efficiency and safety in your laboratory.



Volume

The irradiation chamber dimensions of 400 x 400 x 400 mm with three adjustable irradiation levels. The GSR D1 has secure access for cables and instrumentation.

Dose Rate

The activity of Cs-137 sources can be offered according to the users specifications. A dose difference of < 10 % can be realised on irradiation level two.

Operation

The operation of the GSR D1 is user friendly because of its high quality and reliable components as well as its comprehensive safety system. The current status is indicated on the display.



Radiation safety

GSR D1 gamma irradiation devices are self-contained devices with a surface dose rate of < 5 μ Sv/h with its maximum activity of 200 TBq Cs-137.

Safety Features

- Operation with key switch and safety code
- Irradiation cycle will continue for up to 300 min, in case of power failure
- Independent locking of loading hatch and irradiation chamber
- Continuous monitoring and control of the operation during irradiation
- Self-check of the irradiation unit before and during the irradiation procedure

Technical Specification

Irradiation device	
Weight	4300 kg
Unit Dimensions	Height 1520 mm
	Width 1210 mm
	Depth 690 mm
Recommended room size	min. 2 x 2 m
Electrical supply	115 V / 230 V
Room temperature	+ 15 until + 35 °C
Battery Back-up	Yes
Certificate	CE
Irradiation Chamber	
Measurements	400 x 400 x 400 mm
Volume	64 litre
Cable access	2
Air input access	3
Source	
Source Activity	Cs-137 up to 200 TBq
Surface dose rate	< 5 µSv/hr
Dose uniformity	< 10 % over a 300 mm square
Accessories	
Collimators on request	
Attenuators on request	
Rodent holder	



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