

MultiRad350

Deliver the highest dose with the most uniform depth

A compact, fully-shielded, self-contained x-ray irradiator that can be used almost anywhere, by anyone.

The MultiRad350 is designed to deliver the highest dose with the most uniform depth, ideal for very dense biological specimens and a broad range of industrial applications.

Offering a range of options, including programmable motorized shelf for infinitely variable SSDs, the system is cost effective and free of costly licensing, security and source maintenance fees, which provides a much lower cost of ownership than competitive products.

Key Features

No specialized x-ray knowledge needed to operate

Easy to use with an intuitive touchscreen control panel

Fully integrated system with closed-loop cooling

Integrated dosimeter with advanced Automatic Dose Control (ADC) for exact dose setting

Automatic warm-up and tube conditioning for extended tube life

Secure system requiring a password login

Remote diagnostics and support over the web from product specialists





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Cabinet Features

No additional shielding required
Adjustable sample shelf
Electrically-operated turntable to ensure uniform dosing, 2RPM
Interchangeable beam conditioning filters
Integrated closed-loop heat exchanger
Cabinet port to introduce small tubing and cables to the chamber area
Complies with US and International regulations for Cabinet X-ray systems

Interface Features

On-unit, graphical user touch-screen interface
Individual user passwords required for system operation
Programmed exposure settings and database management

Cabinet Specification

Overall dimensions: W 43"(108cm) x D 35"(88cm) x H 74"(188cm)
Irradiation Chamber: W 16"(41cm) x D 17"(43cm) x H 23"(58cm)
Weight: 3470lbs (1575kg)
Power: 220VAC \pm 10%, 50/60Hz, single phase, 7.5 KVA

High Voltage Generator

Maximum Output Voltage: 350kV
Maximum Current: 30mA

X-ray Tube

Max. Potential: 350kV / 11.4mA
Max. Power: 4000 W
Focal Spot: 8mm
Inherent filtration: 3mm Beryllium
Beam angle: 40° divergence
Beam coverage range: 3.6" (9cm) – 16.0" (40cm) diameter
Source to sample range: 5.2" (13cm) – 26.0" (65cm)

Dose Output

Up to 140 Gy/min at 225KVp, 17.8mA (unfiltered)
Up to 40 Gy/min at 225KV, 17.8mA (1.2mm Cu HVL)
Up to 17 Gy/min at 225KV, 17.8mA (4.0mm Cu HVL)

Operators Control

Exposure Time: programmable or continuous

Options

Programmable Motorized Shelf
Fixed Beam Collimator
Adjustable Beam Collimator
Automatic Filter Selection