Product Data

X-Rad320

For all cell, tissue and small animal irradiation studies

A self-contained x-ray system designed to deliver a precise radiation dosage to specimens in a biological or small animal research laboratory. The x-ray tube is used specifically for radiation therapy, having a highly homogenous beam.

Featuring our TouchRad control panel - a multi-user, password protected touchscreen interface - the X-Rad320 includes a transportable database that can track individual system usage.

Key Features

TouchRad touchscreen control panel

Full screen real-time specimen viewing and image capture

Beam Hardening filter holder

Adjustable specimen shelf

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X-Rad320

Cabinet Features

No additional shielding required

Adjustable sample shelf, 20 - 90cm SSD

Changeable beam conditioning filter slides, 2 supplied

Interior light and camera for sample viewing

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

Up to 9999 individual accounts can be created

Excel database of exposure and user history can be downloaded to a USB drive

Programmed exposure settings, database management and user passwords controlled by an administrative Super User

Ability to assign users access to only specific programs

Cabinet Specification

Overall dimensions:
W 38"(95cm) x D 42"(105cm) x H 78"(195cm)

Irradiation Chamber:
W 30"(75cm) x D 34.5"(86cm) x H 41"(102cm)

Weight: 5500lbs (2500kg)

Power: 230VAC 1Ø, 50A, 12.5 KVA

High Voltage Generator

Maximum Output Voltage: 320kV

Maximum Current: 5mA

X-ray Tube

Max. Potential: 320kV / 12.5mA

Max. Power: 4000 W

Type: Metal Ceramic, Fixed Anode, Oil Cooled

Focal Spot: 8mm^2 (per EN12543)

Dose Output

3 Gy/min at 320KV, 12.5mA, 50cm SSD (HVL≈ 1mm Cu)

1 Gy/min at 320KV, 12.5mA, 50cm SSD (HVL≈ 4mm Cu)

>15 Gy/min at 320KV, 12.5mA, 50cm SSD
(No Beam Hardening)

Operators Control

kV Setting + Display Accuracy:
5kV – 320kV in 0.1kV increments

mA Setting + Display Accuracy:
0.5mA - 30mA in 0.01mA increments

Settings Accuracy: < 1%

Exposure Timer: 1 - 99999 seconds

Programmable Settings:
1000's of locations to recall exposure parameters

Options

Multi-user Interface

Environmental Chamber
with O_2, CO_2 and heating control

TouchRad Dose Measurement and Control System

Adjustable Light Illuminated X-ray Collimator

Fixed Beam Collimators

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