MultiRad 160

160kV X-Ray Irradiation System

The smaller, simpler, safer alternative to radioisotope irradiators.

Faxitron's MultiRad160 is ideal for irradiating larger cell cultures and/or superficial small animal irradiation.

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MultiRad 160

The MultiRad160 is a fully-shielded, self-contained x-ray irradiator that can be used almost anywhere, by anyone. There are no costly licensing, security, or source maintenance fees, providing a much lower total cost of ownership than radioisotope irradiators.

The fully integrated system includes turntable with programmable dosimeter, touch screen control panel and closed-loop cooling.

Features & Benefits

No additional x-ray shielding required

No specialized x-ray knowledge needed to operate

Prescriptive, touchscreen control interface for ease-of-use

Password login for system security

Automatic warm-up and tube conditioning for extended tube life

Electrically-operated turntable to ensure uniform dosing

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

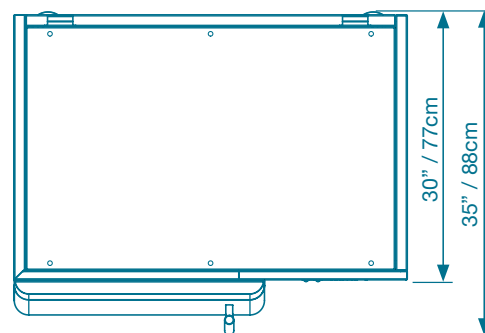Interchangeable beam conditioning filters

Port for ventilation and introducing auxiliary tubes and/or cables

Fully integrated, closed-loop cooling system

Remote diagnostics and support over the web

Optional programmable motorized shelf for infinitely variable SSDs
(manual adjustable shelf included)

Optional imaging upgrade available with 23cm x 29cm high-resolution CMOS detector

Specifications

Energy range	up to 160kV
Tube current at max voltage	18.7mA
System power	3000W
Focal spot size (EN)	5.5mm
Focal spot size (IEC)	0.4mm for imaging
Inherent filtration	0.8mm 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)
Exposure time	programmable or continuous
Power requirements	220 VAC +/- 10 %, 50/60Hz, single phase, 9kVA
Cooling	integrated closed-loop heat exchanger
Specimen turntable	electrically-operated, 2 RPM
Chamber dimensions	23" H x 16" W x 17" D (58cm x 41cm x 43cm)
External dimensions	74" H x 43" W x 35" D (188cm x 108cm x 88cm)
Weight	2120lbs (960kg)

30" / 77cm
35" / 88cm

43"
108cm

74"
188cm

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