

The RX-650 Cabinet X-Radiator™ System

The **RX-650** cabinet x-ray system is a 130 kV unit with a 650 W maximum. Current is fixed at 5 mA. The unit's size and radiation-safe enclosure make it ideal for location almost anywhere and thus a very attractive alternative to isotopic irradiators. A 2 RPM electrically operated turntable helps ensure uniform dosing. Controls are user friendly, allowing operation by persons with no previous x-ray training.

These factors combined with a modest purchase price make the RX-650 a smaller, safer, simpler, and less costly alternative to radioisotope irradiators for a variety of applications, including cell, seed, and insect irradiation.

Comprehensive dosimetry data is available from Faxitron.

RX-650 X-Radiator System Specifications

Energy range, kV	10-130
Tube current	5mA fixed
Focal spot size, IEC	1.5 mm, nominal
Inherent filtration, max.	1.6 mm* beryllium
X-ray beam angle	40° divergence
Maximum coverage	15" (61 cm)
Source to object distance	12" to 28" (30.4 cm to 71.1m)
Exposure time	5 sec to 60 min (1 sec increments)
Power requirements	110-120 VAC/60 Hz (220-230 VAC/50Hz optional)
Cooling	Integrated closed-loop heat exchanger
Specimen turntable	Electrically operated, 2 RPM
External dimensions	40" H x 24" W x 20" D (102 cm x 61 cm x 51 cm)
Internal dimensions	17" H x 18" W x 16.5" D (43 cm x 46 cm x 42 cm)
Weight	630 lb (286 kg)
Shipping weight	740 lb (336 kg)

*X-ray tube: stationary anode, tungsten target, glass tube with beryllium window 1.6 mm thick

Cable access ports standard

Higher output sources available – contact Faxitron

RX-650 Dosimetry: 130 kV @ 5.0 mA

Filtration 0.5 mm Al	R/minute @ 12 in (30.4 cm)*	R/minute @ 28 in (71.1 cm)**
Direct to surface	117	20
1 cm H ₂ O	101	14.6
2 cm H ₂ O	56.7	9.3
3 cm H ₂ O	35.3	5.8
4 cm H ₂ O	25.5	4.4

* Beam dia. 8.5 in (21.6 cm)

** Beam dia. 20.3 in (51.6 cm)



faxitron x-ray

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All Faxitron systems have shielded cabinets and utilize redundant safety interlocks. No NRC site licensing or reporting is required. They are certified to comply with standards set by the U.S. Food and Drug Administration Center for Devices and Radiological Health, (21 CFR-1020.40). Irradiators are designed to comply with applicable U.S. and international electrical safety standards and are certified to comply with the European EMC directive. 0002-0036/Rev A