X-RAD 320Dx Biological Irradiator



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Technical Data

Cabinet Features

Adjustable Sample Shelf: 20cm to 90cm SSD

Changeable Beam Conditioning Filter Slides, (2) supplied

Dual Viewing Windows for specimen viewing in both vertical and horizontal configurations. Complies with Domestic and International Regulations for safety of cabinet X-ray systems

Cabinet Size and Weight

Overall Dimensions: 86" (218cm)h x 72" (183cm)w x 40" (102cm)d Irradiation Chamber: 42" (107cm)h x 39" (100cm)w x 28" (71cm)d

Weight: 5500 lbs (2500 kg)

Power Requirement

1N PE 230 VAC ±5%, or 3N 230 VAC ±10%, 50/60 Hz, 12.5 KVA

High Voltage Generator

Maximum Output Voltage: 450 kV (tube limited to 320 kV)

Maximum mA: 45

X-ray Tube

Maximum Potential: 320 KV Maximum Power: 4000 W

Type: Metal Ceramic, Fixed Anode, Oil Cooled

Focal Spot: 8 mm² (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 – 320 KV in 0.1 KV increments

mA Setting & Display Accuracy: 0.5mA to 45 mA in 0.01 mA increments

Settings Accuracy: < 1%

Exposure Timer: 1-9999 seconds

Programmable Settings: >1,000 locations to recall exposure parameters

Password Protected User Accounts (> 1000 users)

Ability to assign users access to only specific programs.

Excel® Database transportable via USB Flash memory

Additional X-Ray Unit Features

Automatic warm-up with Intelligent Tube Conditioning Proven long term reliability of system components