

Hopewell Designs, Inc.

Model XR50 Research X-ray Irradiators



Model XR50-225 pictured

Our Hopewell Designs Model XR50 Research X-ray Irradiator offers a fully self-contained X-ray irradiation system that allows for maximum dose at your choice of 160kV, 225kV or 320 kV. With no additional shielding required and our fail-safe design, our cabinet offers a safe, easy to use system ideal for the research laboratory environment.

The chambers generous size and adjustable shelving makes it suitable for a variety of biological research applications. Display parameters and system status are easy to read on the control panel and allow the user to quickly and accurately program repeatable exposure settings.

Operation is simple, easy, and safe. Enter an exposure time and press the Expose button to begin the irradiation. A timer shows remaining time. A tone sounds when the exposure is complete.

The X-ray system has a full range of capabilities with an output of 5 to 320 kV in 0.1 kV steps and 0.1 mA to 45 mA in 0.01 mA steps. Exposure time can range from 0 to 1000 minutes or run continuously. Over 600 settable programs allow a broad range of protocols to be stored.

Hopewell Designs, Inc.

Phone: 770-667-5770 www.HopewellDesigns.com

MODEL XR50-160

Large exposure chamber:

38cm x 38cm x 61cm tall (15in x 15in x 24in)
Easily adjustable shelf from 15cm to 65cm SSD
Filter slide for beam conditioning
Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >50 Gy/min at 160kV, 30 cm
Filtered beam: >3 Gy/min at 160kV, 30cm,
(Filter =2mm Al)

X-Ray System

Maximum Output: 160 kV, 45 mA for maximum power of 3 KW
5kV – 160 kV in 0.1 kV increments
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Tube: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5 mm
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall (48in x 34in x 77in)
Weight: 680 kg (1500 lbs)
Power required: 230 VAC +/-10%, 50/60 Hz, 35A
Casters allow system to be easily positioned
Access required to front and side
Meets national & international regulations

MODEL XR50-225

Large exposure chamber:

38cm x 38cm x 61cm tall (15in x 15in x 24in)
Easily adjustable shelf from 15cm to 65cm SSD
Filter slide for beam conditioning
Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >45 Gy/min at 225kV, 30 cm
Filtered beam: >4 Gy/min at 225kV, 30cm,
(Filter =2mm Al)

X-Ray System

Maximum Output: 225 kV, 45 mA for maximum power of 3 KW
5kV – 225kV in 0.1 kV increments
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Tube: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5 mm
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall (48in x 34in x 77in)
Weight: 680 kg (1500 lbs)
Power required: 230 VAC +/-10%, 50/60 Hz, 35A
Casters allow system to be easily positioned
Access required to front and side
Meets national & international regulations

MODEL XR50-320

Large exposure chamber:

76cm x 36cm x 102cm tall (30in x 36in x 40in)
Easily adjustable shelf from 15cm to 65cm SSD
Filter slide for beam conditioning
Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >45 Gy/min at 320kV, 30 cm
Filtered beam: >5 Gy/min at 320kV, 30cm,
(Filter =2mm Al)

X-Ray System

Maximum Output: 320 kV, 45 mA for maximum power of 3 KW
5kV – 320 kV in 0.1 kV increments
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Tube: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5 mm
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall (48in x 34in x 77in)
Weight: 4000 lbs (1820 kg)
Power required: 230 VAC +/-10%, 50/60 Hz, 35A
Casters allow system to be easily positioned
Access required to front and side
Meets national & international regulations

Hopewell Designs, Inc.

Model XR50-160 Research X-ray Irradiator

Our Hopewell Designs Model XR50-160 Research X-ray Irradiator offers a fully self-contained X-ray irradiation system that allows for maximum dose at 160kV. With no additional shielding required and our fail-safe design, our cabinet offers a safe, easy to use system ideal for the research laboratory environment.

The chambers generous size and adjustable shelving makes it suitable for a variety of biological research applications. Display parameters and system status are easy to read on the control panel and allow the user to quickly and accurately program repeatable exposure settings.

Operation is simple, easy, and safe. Enter an exposure time and press the Expose button to begin the irradiation. A timer shows remaining time. A tone sounds when the exposure is complete.

The X-ray system has a full range of capabilities with an output of 5 to 160 kV in 0.1 kV steps and 0.1 mA to 45 mA in 0.01 mA steps. Exposure time can range from 0 to 100 minutes or run continuously. Over 600 settable programs allow a broad range of protocols to be stored.

MODEL XR50-160



Model XR50-225 pictured

Large exposure chamber

38cm x 38cm x 61cm tall (15in x 15in x 24in)
Easily adjustable shelf from 15cm to 65cm SSD
Filter slide for beam conditioning
Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >50 Gy/min at 160kV, 30 cm
Filtered beam: >3 Gy/min at 160kV, 30cm, (Filter =2mm Al)

X-Ray System

Maximum Output: 160 kV, 45 mA for maximum power of 3 KW
5kV – 160 kV in 0.1 kV increments
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Tube: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5 mm
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall
(48in x 34in x 77in)
Weight: 680 kg (1500 lbs)
Power required: 230 VAC +/-10%, 50/60 Hz, 35A
Casters allow system to be easily positioned
Access required to front and side
Meets national & international regulations

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Model XR50-225 Research X-ray Irradiator

Our Hopewell Designs Model XR50-225 Research X-ray Irradiator offers a fully self-contained X-ray irradiation system that allows for maximum dose at 225kV. With no additional shielding required and our fail-safe design, our cabinet offers a safe, easy to use system ideal for the research laboratory environment.

The chambers generous size and adjustable shelving makes it suitable for a variety of biological research applications. Display parameters and system status are easy to read on the control panel and allow the user to quickly and accurately program repeatable exposure settings.

Operation is simple, easy, and safe. Enter an exposure time and press the Expose button to begin the irradiation. A timer shows remaining time. A tone sounds when the exposure is complete.

The X-ray system has a full range of capabilities with an output of 5 to 225 kV in 0.1 kV steps and 0.1 mA to 45 mA in 0.01 mA steps. Exposure time can range from 0 to 100 minutes or run continuously. Over 600 settable programs allow a broad range of protocols to be stored.

MODEL XR50-225



Large exposure chamber:

38cm x 38cm x 61cm tall (15in x 15in x 24in)

Easily adjustable shelf from 15cm to 65cm SSD

Filter slide for beam conditioning

Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >45 Gy/min at 225kV, 30 cm

Filtered beam: >4 Gy/min at 225kV, 30cm,

(Filter =2mm Al)

X-Ray System

Maximum Output: 225 kV, 45 mA for maximum power of 3 KW

5kV – 225kV in 0.1 kV increments

0.1mA to 45 mA in 0.01 mA increments

Settings Accuracy: < 1%

Tube: Metal Ceramic, Fixed Anode, Water Cooled

Focal Spot: 7.5 mm

Inherent Filtration: 0.8mm Be

Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall

(48in x 34in x 77in)

Weight: 680 kg (1500 lbs)

Power required: 230 VAC +/-10%, 50/60 Hz, 35A

Casters allow system to be easily positioned

Access required to front and side

Meets national & international regulations

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Model XR50-320 Research X-ray Irradiator

Our Hopewell Designs Model XR50-320 Research X-ray Irradiator offers a fully self-contained X-ray irradiation system that allows for maximum dose at 320 kV. With no additional shielding required and our fail-safe design, our cabinet offers a safe, easy to use system ideal for the research laboratory environment.

The chambers generous size and adjustable shelving makes it suitable for a variety of biological research applications. Display parameters and system status are easy to read on the control panel and allow the user to quickly and accurately program repeatable exposure settings.

Operation is simple, easy, and safe. Enter an exposure time and press the Expose button to begin the irradiation. A timer shows remaining time. A tone sounds when the exposure is complete.

The X-ray system has a full range of capabilities with an output of 5 to 320 kV in 0.1 kV steps and 0.1 mA to 45 mA in 0.01 mA steps. Exposure time can range from 0 to 100 minutes or run continuously. Over 600 settable programs allow a broad range of protocols to be stored.

MODEL XR50-320



Model XR50-225 pictured

Large exposure chamber:

76cm x 36cm x 102cm tall (30in x 36in x 40in)
Easily adjustable shelf from 15cm to 65cm SSD
Filter slide for beam conditioning
Baffle into exposure chamber for cabling and air circulation

Dose Output

Unfiltered beam: >45 Gy/min at 320kV, 30 cm
Filtered beam: >5 Gy/min at 320kV, 30cm,
(Filter =2mm Al)

X-Ray System

Maximum Output: 320 kV, 45 mA for maximum power of 3 KW
5kV – 320 kV in 0.1 kV increments
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Tube: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5 mm
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air

System Specifications

Overall Dimensions: 122cm x 86cm x 193cm tall
(48in x 34in x 77in)
Weight: 4000 lbs (1820 kg)
Power required: 230 VAC +/-10%, 50/60 Hz, 35A
Casters allow system to be easily positioned
Access required to front and side
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