The

XCELL® 225 - 4kW

Cabinet Irradiator System



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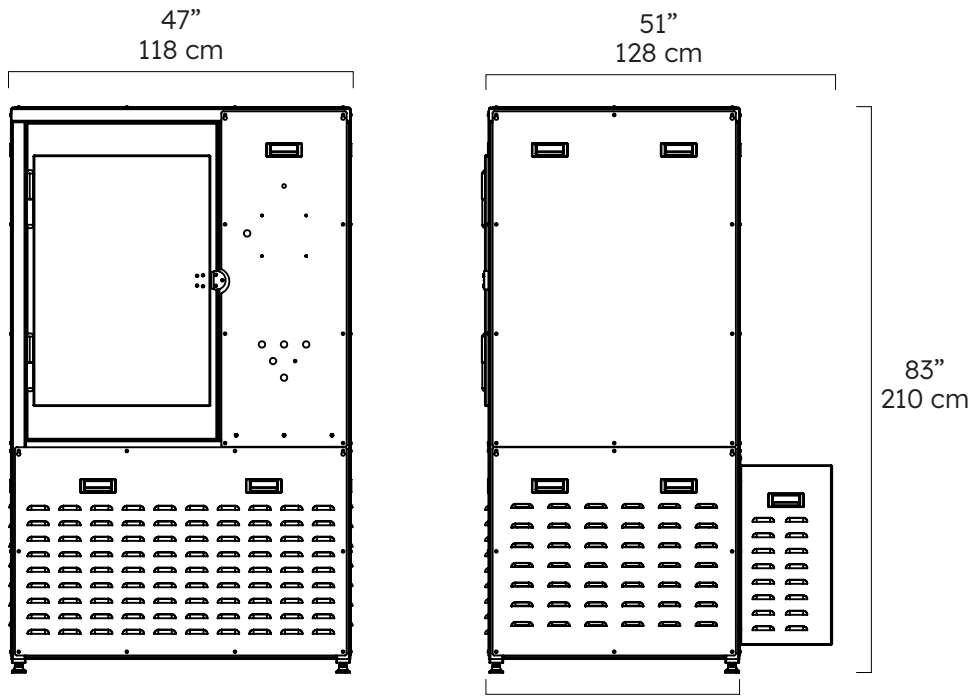
MSS-26 Rev A

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Cabinet Irradiator System

SYSTEM SPECIFICATIONS

System Diagram



*Lower panel is removable for door clearance

Electrical Requirements	
Input Line Voltage	220 VAC +/-10%
Peak Input Power	30 Amps
Frequency	47/63 Hz
Max Power	4000 W
Physical	
Construction	Fully integrated free-standing system
System Dimensions	47” L x 51” W x 83” H (118 x 128 x 210 cm)
Irradiation Chamber Dimensions	24” L x 24” W x 42” H (61 x 61 x 107 cm)
Weight	2150 lbs (975 kg)
Generator	
Maximum Output Voltage	225 kV
Maximum Current	30 mA
X-ray Tube	
Max Potential	225 kV
Max Power	4500 W
Focal Spot	5.5 mm
Inherent Filtration	2.0 mm Be
Beam Angle	40°
Beam coverage	Collimated at 14” x 14” (36 cm x 36 cm)
Source to sample	17.8” – 36.1” (45.1 – 91.5 cm) no turntable 12.8” – 31.1” (32.4 – 78.9 cm) with turntable
Anode Type	Tungsten

*Derived from the XCELL 225 3.0 kW configuration testing and calculations from sub-system supplier specifications.

Operators Control	
kV Setting Range	30 kV - 225 kV in 0.1 kV increments
mA Setting Range	0.1 mA - 30 mA in 0.1 mA increments
Exposure Time	Programmable or continuous
Dose Output*	
> 6.2 Gy/min @225 kV, 17.6 mA, 30 cm SSD (Open Beam)	
> 4.0 Gy/min @225 kV, 17.6 mA, 30 cm SSD (Filter = 3 mm Al)	
Cabinet	
No additional Shielding required	
Electrically-operated turntable to ensure uniform dosing, 2RPM	
Integrated closed-loop heat exchanger	
Dosimeter package	
Interface Features	
On-unit, graphical user touch-screen interface	
Individual user passwords required for system operation	
Excel database of exposure and user history, can be downloaded to a USB drive	
Programmed exposure settings and database management	
Optional Equipment	
High-resolution X-ray digital imaging capability	Anesthetizing ports
Mouse irradiation kit	
Resources	
System manual (IFU)	Quick reference guide (QRG)
Optical Camera	Rotary Turntable

Additional Irradiator Options		
XCELL 160 1.8kV / 3.0kW	XCELL 225 3.0 kW	XCELL 320 4.2kV

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