The

XCELL® 320 - 4.0kW

Cabinet Irradiator System



FM00018 Rev A

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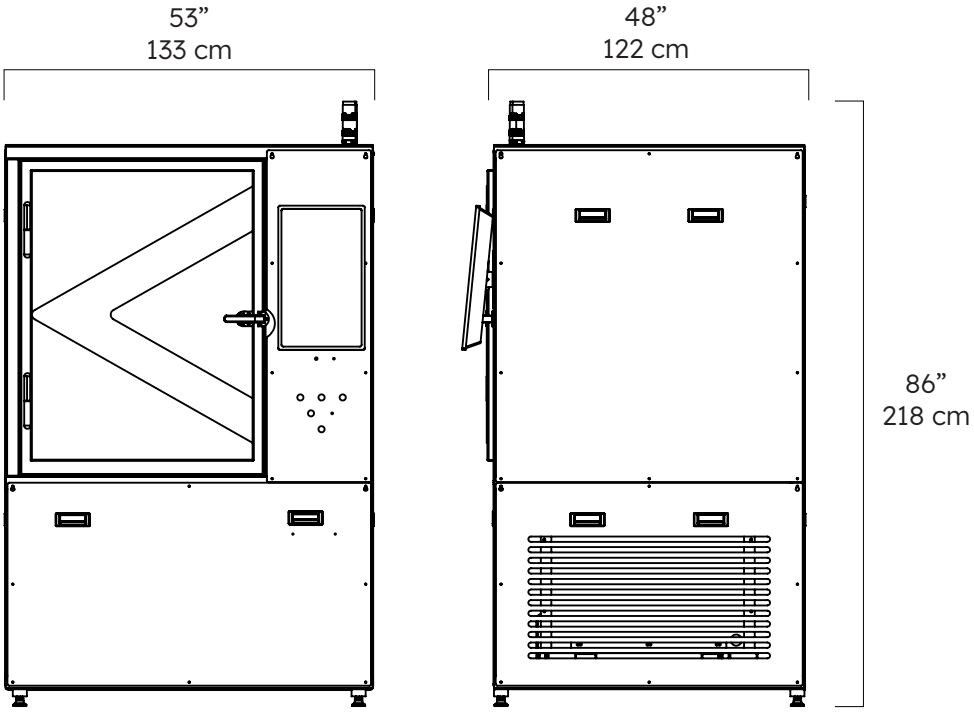
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Cabinet Irradiator System

SYSTEM SPECIFICATIONS

System Diagram



Electrical Requirements	
Input Line Voltage	220 VAC +/-10%
Peak Input Power	35 A
Frequency	47/63 Hz
Max Power	4000 W
Physical	
Construction	Fully integrated free-standing system
System Dimensions	53” L x 48” W x 86” H (133 x 122 x 218 cm)
Irradiation Chamber Dimensions	32” L x 32” W x 42” H (81 x 81 x 107 cm)
Weight	5000 lbs (2268 kg)
High Voltage Generator	
Maximum Output Voltage	320 kV
Maximum Current	30 mA
X-ray Tube	
Max Potential	320 kV
Max Power	4000 W
Focal Spot	8.0 mm
Inherent Filtration	3.0 mm Be
Beam Angle	40°
Beam Coverage	Collimated at 14” x 14” (36 cm x 36 cm)
Source to Sample	16.1” – 36.6” (40.7 – 92.9 cm) no turntable 11.1” – 31.6” (28.0 – 80.2 cm) with turntable
Anode Type	Tungsten

Operators Control	
kV Setting Range	20 kV - 320 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	
> 7.3 Gy/min @ 320 kV, 12.5 mA, 30 cm SSD (Open Beam)	
> 4.6 Gy/min @ 320 kV, 12.5 mA, 30 cm SSD (Filter = 2 mm Al)	
Cabinet	
No additional shielding required	
Electrically-operated turntable to ensure uniform dosing, 2 RPM	
Large internal chamber for increased throughput	
Integrated closed-loop heat exchanger	
Two additional dose levels	
NRTL Certified by Intertek for Electrical Safety	
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	Dosimeter package
Accessories & Resources	
System manual (IFU)	Quick reference guide (QRG)
Optical Camera	Rotary Turntable

Additional Free-standing Irradiator Options	
XCELL 160 1.8 kW / 3.0 kW	XCELL 225 3.0 kW / 4.0 kW

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