The

XCELL® 160 - 1.8kW

Cabinet Irradiator System



FM00024 Rev A

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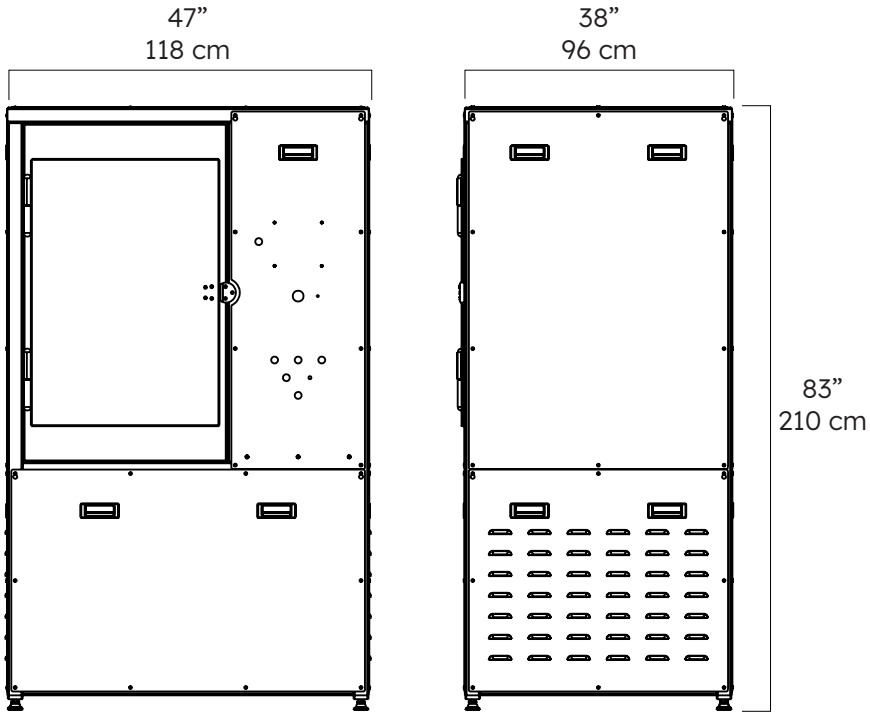
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THE XCELL®160 – 1.8 kW

Cabinet Irradiator System

SYSTEM SPECIFICATIONS

System Diagram



Electrical Requirements	
Input Line Voltage	220VAC +/-10%
Peak Input Power	30 Amps
Frequency	47/63 Hz
Max Power	1800 W
Physical	
Construction	Fully integrated free-standing system
System Dimensions	47” L x 38” W x 83” H (118 x 96 x 210 cm)
Irradiation Chamber Dimensions	24” L x 24” W x 42”H (61 x 61 x 107 cm)
Weight	Weight: 1650 lbs (748 kg)
High Voltage Generator	
Maximum Output Voltage	160 kV
Maximum Current	30 mA
X-ray Tube	
Max Potential	160 kV
Max Power	3000 W
Focal Spot	7.5 mm
Inherent Filtration	0.8 mm Be
Beam Angle	40°
Beam Coverage	Collimated at 14” x 14” (36 cm x 36 cm)
Source to Sample	18.8” – 37.1” (47.6 – 94.1 cm) no turntable 13.8” – 32.1” (34.9 – 81.4 cm) with turntable
Anode Type	Tungsten

Operators Control	
kV Setting Range	30 kV – 160 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	
> 2.9 Gy/min @ 160 kV, 11.25 mA , 30 cm SSD (Open Beam)	
> 1.1 Gy/min @ 160 kV, 11.25 mA , 30 cm SSD (Filter = 0.2 mm Cu)	
Cabinet	
No additional shielding required	
Electrically-operated turntable to ensure uniform dosing, 2 RPM	
Integrated closed-loop heat exchanger	
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
Resources	
System manual (IFU)	Quick reference guide (QRG)
Optical Camera	Rotary Turntable

Additional Free-standing Irradiator Options		
XCELL 160 3.0 kW	XCELL 225 3.0 kW / 4.0 kW	XCELL 320 4.0 kW

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