The

XCELL® 180

Benchtop X-ray Irradiator System



FM00018 Rev A

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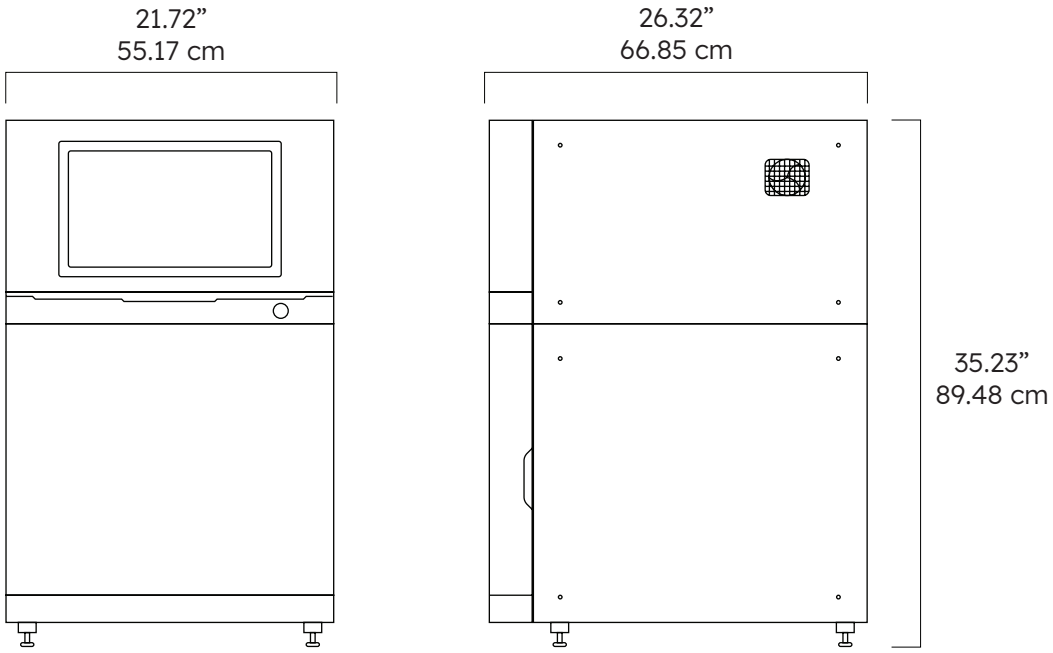
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SYSTEM SPECIFICATIONS

System Diagram



Electrical Requirements	
Input Line Voltage	120-240 VAC +/-10%
Peak Input Power	2400 W
Frequency	50/60 Hz
Physical	
Construction	Fully integrated benchtop system
System Dimensions	21.72” W x 26.32” D x 35.23” H (55.17 x 66.85 x 89.48 cm)
Irradiation Chamber Dimensions	13.13” W x 14.94 D x 16.61” H (33.35 x 37.95 x 42.19 cm)
Weight	850 lbs (385.6 kg)
X-ray Tube	
Max Potential	180 kV
Max Power	990 W
Focal Spot	3.2 mm
Inherent Filtration	2.0 mm Al
Beam Angle	40°
Beam Coverage	12” radius (30 cm) at Level 1
Source to Sample	17” (43.18 cm) maximum. Three aditional calibrated distances.
Anode Type	Tungsten

Operators Control	
kV Setting Range	20 kV – 180 kV in 0.1 kV increments
mA Setting Range	0.1 mA – 5.5 mA in 0.1 mA increments
Exposure Time	Dose, timed, and continuous
Dose Output	
3.04 Gy/min (Filter = 0.15 mm Al)	
Cabinet	
No additional shielding required	
Electrically-operated turntable to ensure uniform dosing, 2 RPM	
Large internal chamber for increased throughput	
Integrated heat exchanger	
Three additional mag levels	
Interface Features	
On-unit, graphical user touch-screen interface	
Individual user passwords required for system operation	
Exportable logs of exposure and user history, can be downloaded to a USB drive	
Programmed exposure settings and database management	
Optional Equipment	
Mouse irradiation kit	Anesthetizing port
Accessories & Resources	
System manual (IFU)	Quick reference guide (QRG)
Optical Camera	Rotary Turntable

Additional Benchtop Irradiator Options	
XCELL 50	XCELL 50 plus

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