

EXS SERIES

DIAGNOSTIC X-RAY SYSTEM Product Specification

System					
Model	Single-Phase Diagnostic X-ray System		Three-Phase Diagnostic X-ray System		
	EXS-32R	EXS-40R	EXS-40R	EXS-52R	EXS-68R

X-ray Generator					
Model	SXG-32R	SXG-40R	SXG-40R	SXG-52R	SXG-68R
Power Rating	32kW	40kW	40kW	52kW	68kW
Line Phase	1Φ(Single-Phase)	1Φ(Single-Phase)	3Φ(Three-Phase)	3Φ(Three-Phase)	3Φ(Three-Phase)
Line Nominal	230V±10% 50/60Hz	230V±10% 50/60Hz	400V±10% 50/60Hz	400V±10% 50/60Hz	400V±10% 50/60Hz
kV Range	40 to 125kV	40 to 125kV	40 to 125kV	40 to 150kV	40 to 150kV
mA Range	10 to 400mA	10 to 500mA	10 to 500mA	10 to 640mA	10 to 800mA
Timer Range	1ms to 10sec 36steps	1ms to 10sec 36steps	1ms to 10sec 36steps	1ms to 10sec 36steps	1ms to 10sec 36steps
mAs Range	0.1 to 400mAs	0.1 to 500mAs	0.1 to 500mAs	0.1 to 640mAs	0.1 to 800mAs
Max. Power Output	400mA@80kV 320mA@100kV 250mA@125kV	500mA@80kV 400mA@100kV 320mA@125kV	500mA@80kV 400mA@100kV 320mA@125kV	640mA@81kV 500mA@104kV 400mA@130kV 320mA@150kV	800mA@85kV 640mA@106kV 500mA@136kV 400mA@150kV
Rotor Supply	Low Speed Starter (LSS)	Low Speed Starter (LSS)	Low Speed Starter (LSS)	Low Speed Starter (LSS), Option DSS	Dual Speed Starter (DSS)
Weight	108kg	108kg	110kg	110kg	110kg
Dimension (DxWxH)	430x620x640mm				
Reproducibility	Coefficient of Variant : kV<0.005 , Time<0.005, mAs<0.01				
Accuracy	kV<±(3%+1kV), mA<±(5%+1mA), Time<±(1%+1ms), mAs<±(3%+1mAs)				
Linearity	Coefficient of Linearity < 0.01 : CL=(X1-X2)/(X1+X2), where X is mR/mAs				

X-ray Tube		
Model	TOSHIBA E7239X	TOSHIBA E7252X
Max. Power	125kVp	150kVp (125kVp@LSS)
Max. Heating Unit	140kHU (100kJ)	300kHU (210kJ)
Nominal Focal Spot	1.0@Small , 2.0@Large	0.6@Small , 1.2@Large
Maximum Tube Current	350mA@Small , 600mA@Large	400mA@Small , 1000mA@Large
Max. Voltage to Ground	65kV	78kV
Weight	16kg	18kg
Filtration & Anode Type	0.9mmAL & Rotating Anode	
Target	12 degrees (Rhenium-Tungsten faced Molybdenum)	

Patient Table (4-way Float-top)	
Dimension	2200x820x720mm
Longitudinal Travel	900mm
Transverse Travel	300mm
Bucky Travel	380mm
Weight	130kg
Beam Limiting Device (Collimator)	
Max. X-ray Tube Voltage	150kVp
X-ray Field	43x43cm@FD100cm
Adjustment	Manual
Light Projection	280-160LUX@FD100cm
Inherent Protection	1.2mm AL EQV.
Projection Lamp	LED
Lamp Timer	30 seconds
Dimension	225x240x185mm

Clinical Environment Conditions (Operating Conditions)	
Ambient Temperature Range	10 to 40°C (50 to 104°F)
Relative Humidity Range	30 to 75%, non-condensing

Tube Stand (Floor Mounted)	
Column Height	2190mm
Vertical Travel	1300mm
Longitudinal Travel	1700mm
Transverse Travel	300mm
Column Rotation	±90°
Tube Rotation	±180°
Weight	174kg
Wall Bucky Stand	
Column Height	1910mm
Vertical Travel	1200mm
Focal Spot Height Min	35mm
Focal Spot Height Max	1830mm
Front Panel AL EQV.	0.4mm
Weight	80kg

Transportation Environment Conditions	
Ambient Temperature Range	-10 to 70°C (14 to 158°F)
Relative Humidity Range	5 to 95%, non-condensing