

2. TECHNICAL DATA

2.1 TECHNICAL DATA LIST

Table 3 TECHNICAL DATA

Items		Rated value	
Nominal X-ray tube Voltage	IEC 60613:2010	Fluoroscopy	125 kV
		Radiography	150 kV
X-ray tube assembly	Max. heat content		1100kJ {1600kHU}
	Nominal continuous input power IEC 60613:2010		470W{660HU/s} : with fan 235W{330HU/s} : without fan
X-ray tube	Max. anode heat content		280kJ { 400kHU}
	Max. anode heat dissipation rate		1600W {2200HU/s}
	Max. continuous heat dissipation rate		300W { 420HU/s}
	Continuous anode input power IEC 60613:2010		100W (Repetition of radiographic exposure)
Nominal focal spot value IEC 60336		0.6	1.2
Measuring method of focal spot size		Slit camera	Slit camera
X-ray tube max. Fluoroscopic load(10min.)	Anode stationary	355W {500HU/s}	425W{600HU/s}
	Anode rotating	425W {600HU/s}	425W{600HU/s}
Nominal anode input power (0.1sec)	50Hz (164DK)	12.7kW	34.3kW
	60Hz (164DK)	13.8kW	37.3kW
	180Hz (364DK)	24kW	65kW
Nominal radiographic anode input power IEC 60613:2010	50Hz (164DK)	12.7kW	34.3kW
	60Hz (164DK)	13.8kW	37.3kW
	180Hz (364DK)	24kW	65kW
Max. filament voltage		7.6 V	12.1 V
Max. filament current *1		5.6 A	5.6 A
Anode target	material	Rhenium-tungsten faced molybdenum	
	angle/diameter	16°/100mm	
Anode rotation *2		Direction of anode rotation is counter-clockwise as viewed from the cathode side, and R.P.M as follows. 2700 min. ⁻¹ {R.P.M.} at 50 Hz 3200 min. ⁻¹ {R.P.M.} at 60 Hz 9700 min. ⁻¹ {R.P.M.} at 180 Hz	
Minimum total filtration IEC 60601-2-28:2017		1.7 mm Al/75 kV (Including added filter*3)	
Permanent filtration *4	IEC 60601-2-28:2017	1.0 mm Al/75 kV IEC 60522:1999 (without added filter)	
	JIS Z 4751-2-28:2008 (IEC 60601-2-28:1993)	Min. 1.5 mm Al at 70kV *5 (Including added filter)	
Leakage radiation *6	IEC 60601-1-3:2008+A1:2013	Leakage radiation in hour from the X-ray tube assembly and collimator is less than 0.87mGy at a distance of 1 meter from the focal spot. However, leakage radiation in an hour from the collimator is less than 0.30mGy.	
X-ray radiation field		350mm × 350mm (at distance of 650mm from focal spot)	
IEC classification IEC 60601-1:2005+A1:2012		CLASS I	
Mode of operation		Continuous operation with intermittent loading	
Mass *7		21 kg	
High voltage connector		IEC 60526 type	