SIEMENS

RAY-6

X-ray Tube Assembly

Data Sheet

Description

This compact X-ray tube assembly was developed for use in radiography and fluoroscopy systems.

The integrated high quality tube with glass design has two superimposed focal spots and a reinforced 74 mm anode.

Features and customer benefits

- A focal spot of IEC 0.6 allows excellent image quality
- Large field of view thanks to 16° anode angle
- High long-term dose yield
- Excellent quality and reliability

Technical Data			
Nominal voltage	150 kV		IEC 60613 (2010)
Nominal voltage Fluoroscopy	110 kV		
Nominal focal spot values	0.6	1.5	IEC 60336
Nominal anode input power (60 Hz)	12 kW	40 kW	IEC 60613 (1989) (at 300 W average anode input power)
Nominal radiographic anode input power (60 Hz)	14 kW	53 kW	IEC 60613 (2010)
Filament Heating maximum current maximum voltage	 5.0 A ≈ 9.0 V	 5.2 A ≈ 15.0 V	AC < 50 kHz
Anode Angle	16°		
Anode heat storage capacity	160 kJ = 216 kHU		IEC 60613 (1989)
Anode drive frequencies for exposure fluoro	 50 / 60 Hz 20 / 30 Hz		
Heat storage capacity of assembly	1.0 MJ = 1.35 MHU		IEC 60613
Max. continuous heat dissipation of assembly (without / with fan)	275 W / 450 W		IEC 60613 (2010) (at ambient temperature < 25 °C)
Radiation Leakage	≤ 0.8 mGy/h		IEC 60601-1-3
Total inherent filtration	2.5 mm Al / 75 kV		IEC 60522, IEC 60601-1-3
Weight	≈ 17.5 kg		

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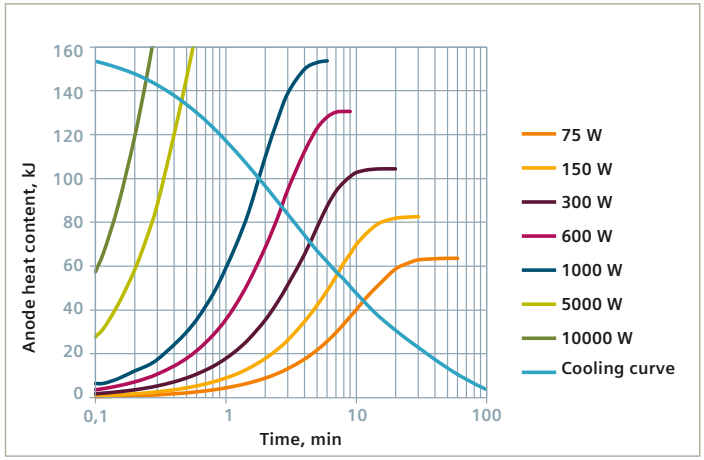
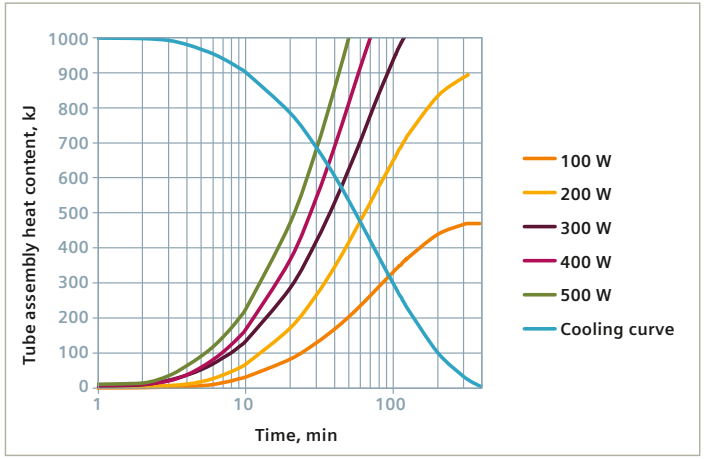
Heating and cooling curves

Anode



According to IEC 60613 (1989)

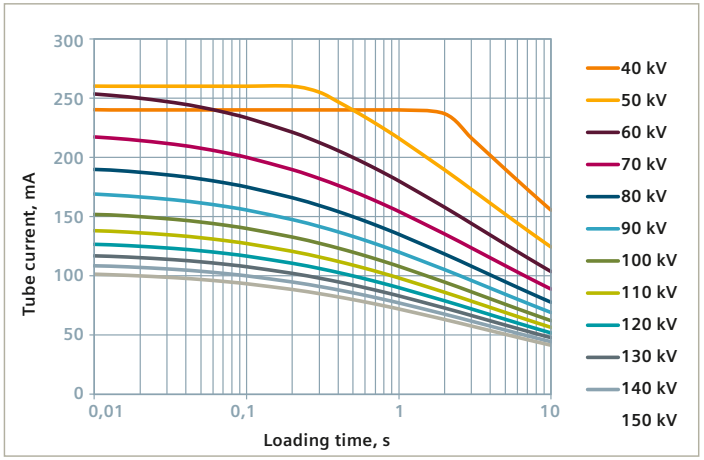
X-ray tube assembly (without fan)



According to IEC 60613 (1989)

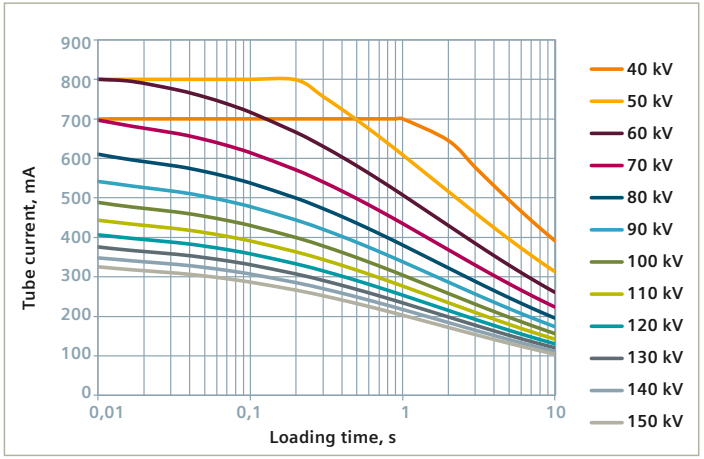
Rating charts

Focal spot IEC 0.6



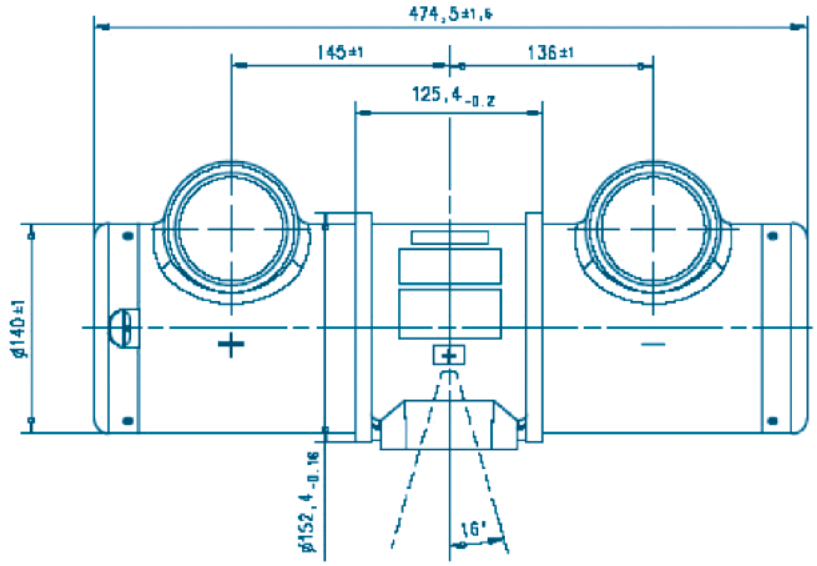
According to IEC 60613 (1989)
Anode drive 60 Hz
Thermal anode reference power 300 W

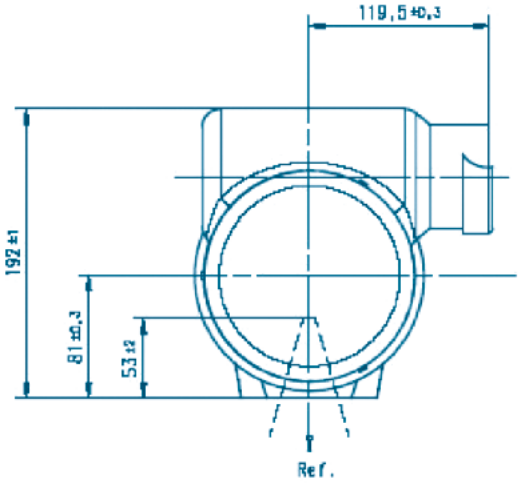
Focal spot IEC 1.5



According to IEC 60613 (1989)
Anode drive 60 Hz
Thermal anode reference power 300 W

Dimensional drawings (RAY-6_1)





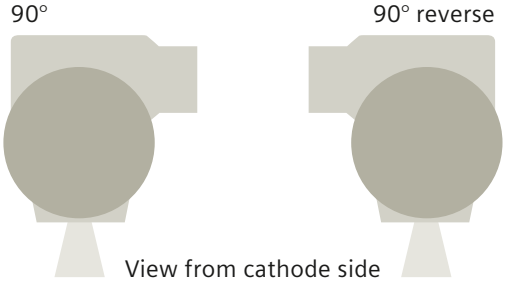
Trunnion rings, high-voltage cables, stator cables with shielding and safety switch cables are optionally available.

F = Focus position
Ref. = Reference axis
Dimensions are given in mm

Types and material numbers

	1-phase drive, without collimator flange
Housing	RAY-6_1
90°	Mat.-No. 10523240

Horn angles



View from cathode side

Creating values
is our passion.

Efficiency
is our nature.

Partnership
is our way.

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