

# RAY-8

## X-ray Tube Assembly

### Data Sheet

#### Description

With its focal spots of IEC 1.0 and IEC 2.0, this compact X-ray tube assembly was developed for use in radiography and fluoroscopy systems mainly in veterinary applications.

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

#### Features and customer benefits

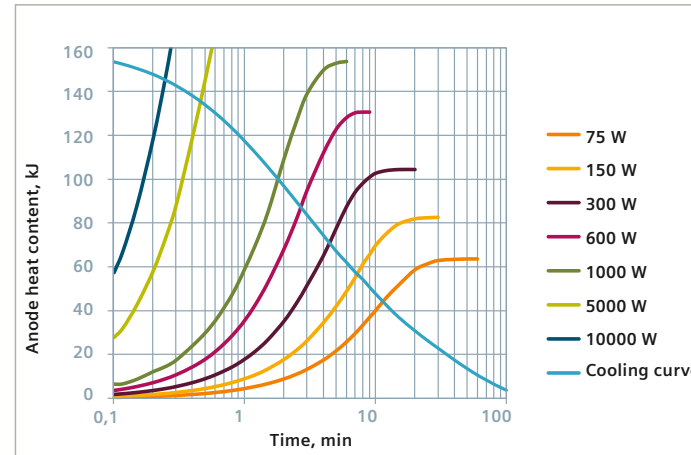
- Large field of view thanks to 16° anode angle
- Available with 1- and 3- phase stator
- Compact tube housing
- High long-term dose yield
- Excellent quality and reliability

Technical Data			
Nominal voltage	150 kV		IEC 60613 (2010)
Nominal voltage Fluoroscopy	110 kV		
Nominal focal spot values	1.0	2.0	IEC 60336
Nominal anode input power (60 Hz)	25 kW	48 kW	IEC 60613 (1989) (at 300 W average anode input power)
Nominal radiographic anode input power (60 Hz)	30 kW	70 kW	IEC 60613 (2010)
Filament Heating	maximum current	5.3 A	AC < 50 kHz
	maximum voltage	≈ 7 V	
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

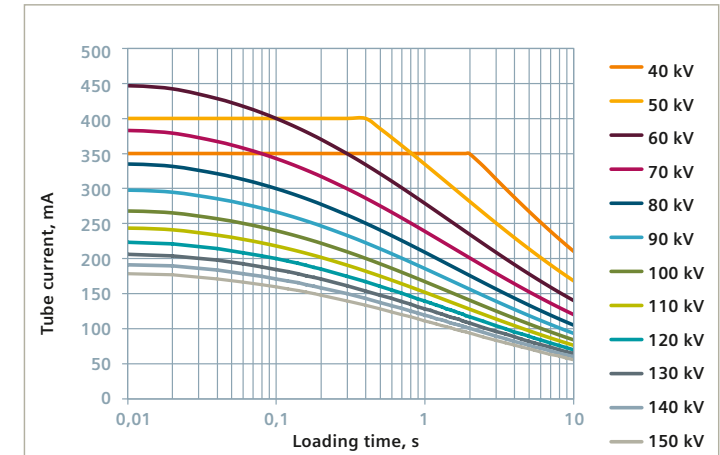
### Anode



According to IEC 60613 (1989)

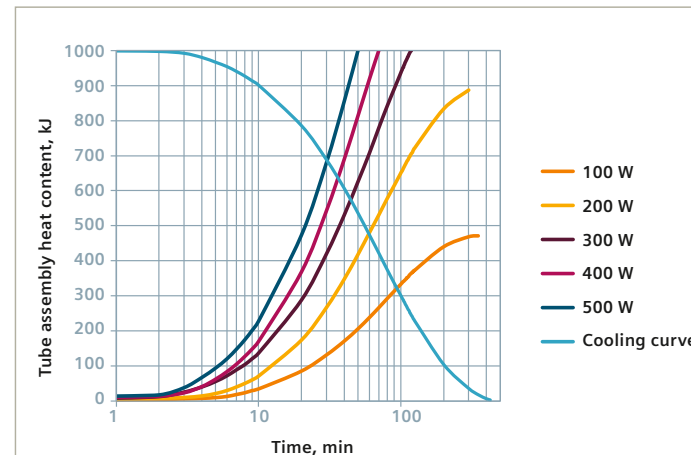
## Rating charts

### Focal spot IEC 1.0



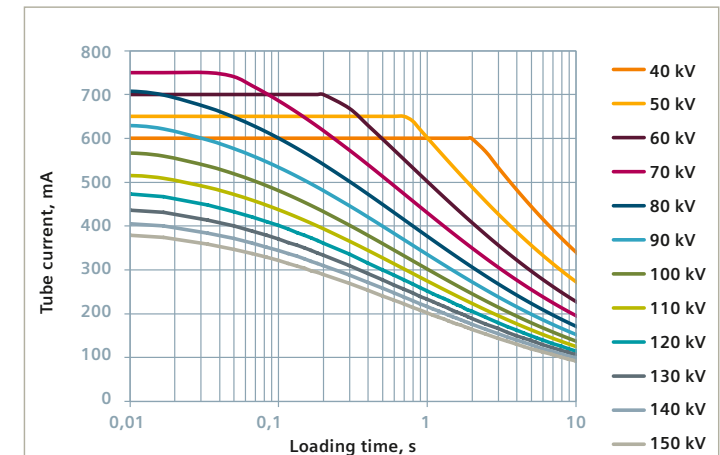
According to IEC 60613 (1989)  
Anode drive 50 Hz  
Thermal anode reference power 300 W

### X-ray tube assembly (without fan)



According to IEC 60613 (1989)

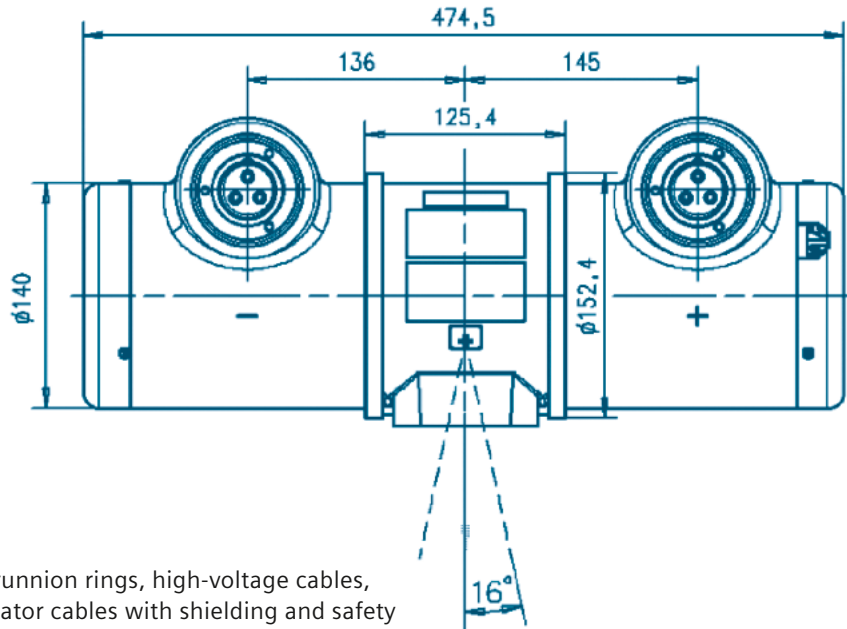
### Focal spot IEC 2.0



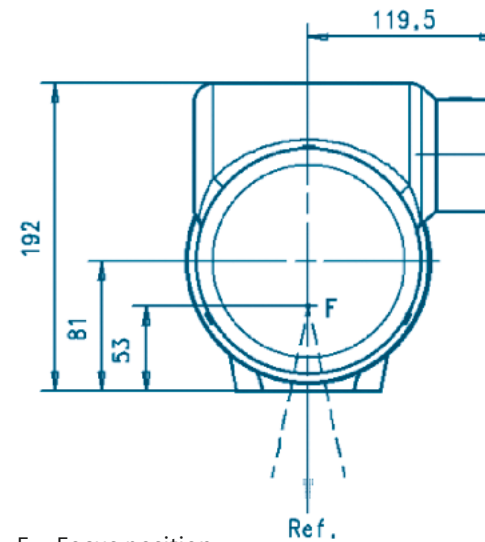
According to IEC 60613 (1989)  
Anode drive 60 Hz  
Thermal anode reference power 300 W



## Dimensional drawings (RAY-8S\_1)



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

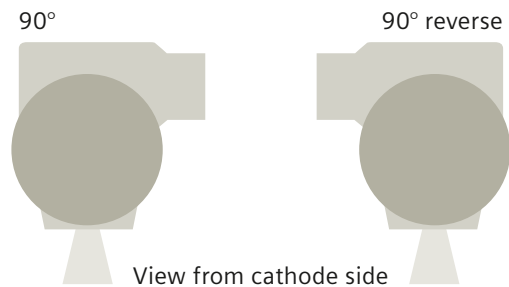


F = Focus position  
Ref. = Reference axis  
Dimensions are given in mm

## Types and material numbers

1-phase drive, without collimator flange	
Housing	RAY-8S_1
90°	Mat.-No. 7037182

## Horn angles



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