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Features and benefits

Siemens Healthineers RAY 14

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.

Based on many years of experience in X-ray tube manufacturing, the RAY 14 was designed to meet the demand for low total cost of ownership.

- High power on both focal spots
- Compact tube housing
- High long-term dose yield

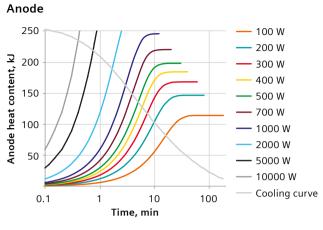


- Excellent quality and reliability
- Available with 1- and 3-phase stator

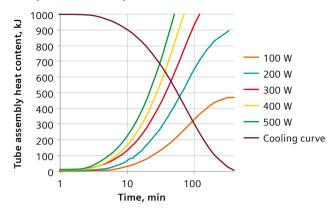
Technical data

150 kV		IEC 60613 (2010)
110 kV		
0.6	1.2	IEC 60336 (2005)
34 kW	80 kW	IEC 60613 (1989) (at 130 W average anode input power)
34 kW	80 kW	IEC 60613 (2010)
5.4 A ≈10 V	5.5 A ≈ 15 V	AC < 50 kHz
12°		
260 kJ = 350	kHU	IEC 60613 (1989)
150/180 Hz		
1.0 MJ = 1.35	MHU	IEC 60613 (1989)
275 W/450 W	I	IEC 60613 (2010) (at ambient temperature < 25 °C)
≤0.8 mGy/h		IEC 60601-1-3 (2008)
2.5 mm Al/75	5 kV	IEC 60522 (2003), IEC 60601-1-3 (2008)
≈ 18 kg		
	110 kV 0.6 34 kW 34 kW 5.4 A ≈ 10 V 12° 260 kJ = 350 150/180 Hz 1.0 MJ = 1.35 275 W/450 W ≤ 0.8 mGy/h 2.5 mm Al/75	110 kV 0.6 1.2 34 kW 80 kW 34 kW 80 kW 34 kW 80 kW 5.4 A 5.5 A $\approx 10 V$ $\approx 15 V$ 12° 260 kJ = 350 kHU 150/180 Hz 1.0 MJ = 1.35 MHU 275 W/450 W $\leq 0.8 \text{ mGy/h}$ 2.5 mm Al/75 kV $\leq 0.8 \text{ mGy/h}$

Heating and cooling curves



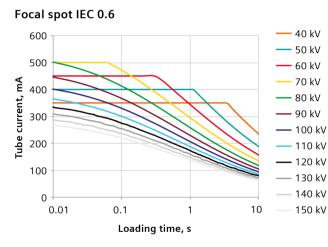
X-ray tube assembly (without fan)



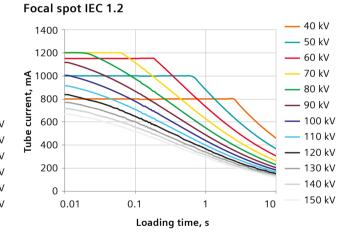
According to IEC 60613 (1989)

According to IEC 60613 (1989)

Rating charts



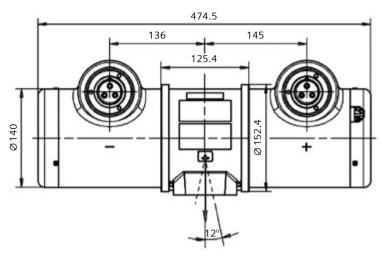
According to IEC 60613 (1989) Anode drive 180 Hz Thermal anode reference power 300 W



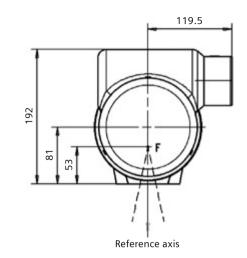
According to IEC 60613 (1989) Anode drive 180 Hz Thermal anode reference power 300 W

Dimensions

Front view



Side view



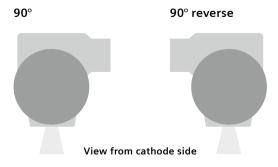
Trunnion rings, high-voltage cables, stator cables with shielding and safety switch cables are optionally available.

F = Focus position Dimensions are given in mm.

Types and material numbers

	1-phase drive, without collimator flange	3-phase drive, without collimator flange	
Housing	RAY-14S_1	RAY-14S_3	
90° MatNo.	7037141	7037000	
Housing	RAY-14_1	RAY-14_3	
90° reverse MatNo.	7037133	7035483	

Horn angles



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