SV 150/40/80C-100F
SV 150/40/80C-100LF

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SIEMENS Healthineers

Features and benefits

Siemens Healthineers
SV 150/40/80C-100F and -100LF

This compact X-ray tube assembly was developed for use in radiography and fluoroscopy systems. It allows for excellent image quality at high patient throughput.

Based on many years of experience in X-ray tube manufacturing, the SV 150/40/80C-100F and the SV 150/40/80C-100LF were designed to meet the demand for low total cost of ownership.

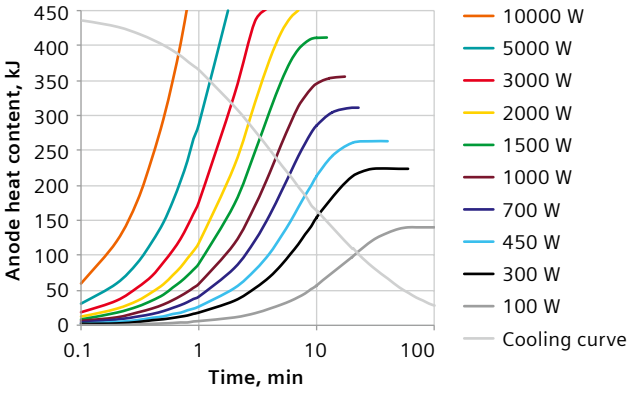
- 600 kHU anode heat storage capacity for efficient X-ray examinations
- Focal spots of IEC 0.6 and IEC 1.0 allow excellent image quality
- High power on both focal spot
- Available with 1- and 3-phase stator drive
- High long-term dose yield
- Excellent quality and reliability

Technical data

Nominal X-ray tube voltage	150 kV		IEC 60613 (2010)
Nominal X-ray tube voltage for fluoroscopy	110 kV		
Nominal focal spot value	0.6	1.0	IEC 60336 (2005)
Nominal anode input power (150 Hz / 180 Hz)	40 kW	80 kW	IEC 60613 (1989) (for the equivalent anode input power of 300 W)
Nominal radiographic anode input power	47 kW	85 kW	IEC 60613 (2010)
Filament heating maximum current maximum voltage	 5.1 A ≈ 11.9 V	 5.1 A ≈ 18.7 V	AC < 20 kHz
Anode angle	12°		
Anode heat storage capacity	450 kJ (600 kHU)		IEC 60613 (1989)
Anode rotation frequencies for exposure	150 Hz / 180 Hz		
Heat storage capacity (of X-ray tube assembly)	1.800 MJ (2.530 MHU)		IEC 60613 (1989)
Nominal continuous input power (of X-ray tube assembly)	300 W / 450 W (without fan / with fan)		IEC 60613 (2010) (at ambient temperature 20–25 °C)
Leakage radiation (of X-ray tube assembly)	≤ 0.8 mGy/h		IEC 60601-1-3 (2008) (at 150 kV, 450 W, 1 m distance)
Inherent filtration (of X-ray tube assembly) permanent filtration additional filtration (removable)	 1.5 mm Al 2 × 0.5 mm (= 1 mm) Al		IEC 60522 (1999), IEC 60601-1-3 (2008) (at 75 kV)
X-ray tube assembly weight	≈ 26 kg		

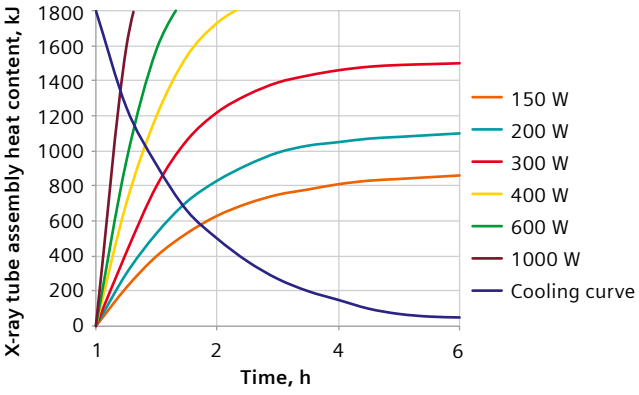
Heating and cooling curves

Anode



According to IEC 60613 (1989)

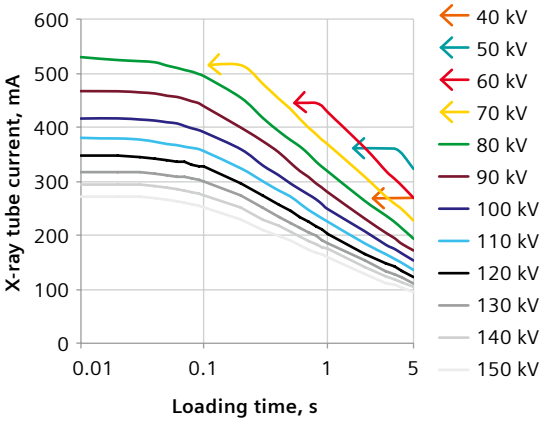
X-ray tube assembly (without fan)



According to IEC 60613 (1989)

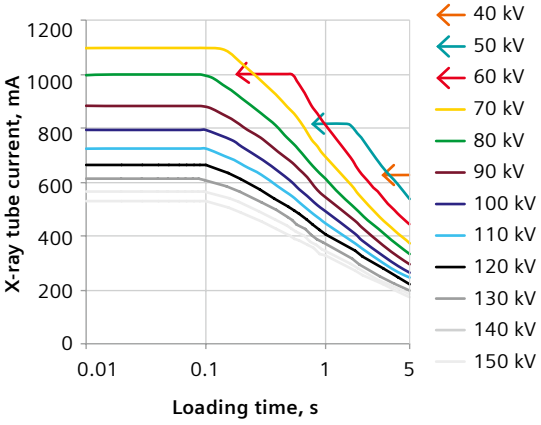
Single load rating charts

Focal spot IEC 0.6



According to IEC 60613 (1989)
Anode rotation frequency 150 Hz / 180 Hz
Thermal anode reference power 300 W

Focal spot IEC 1.0

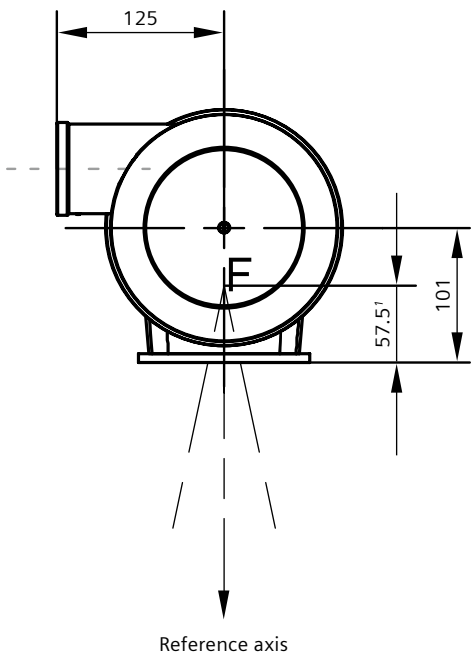


According to IEC 60613 (1989)
Anode rotation frequency 150 Hz / 180 Hz
Thermal anode reference power 300 W

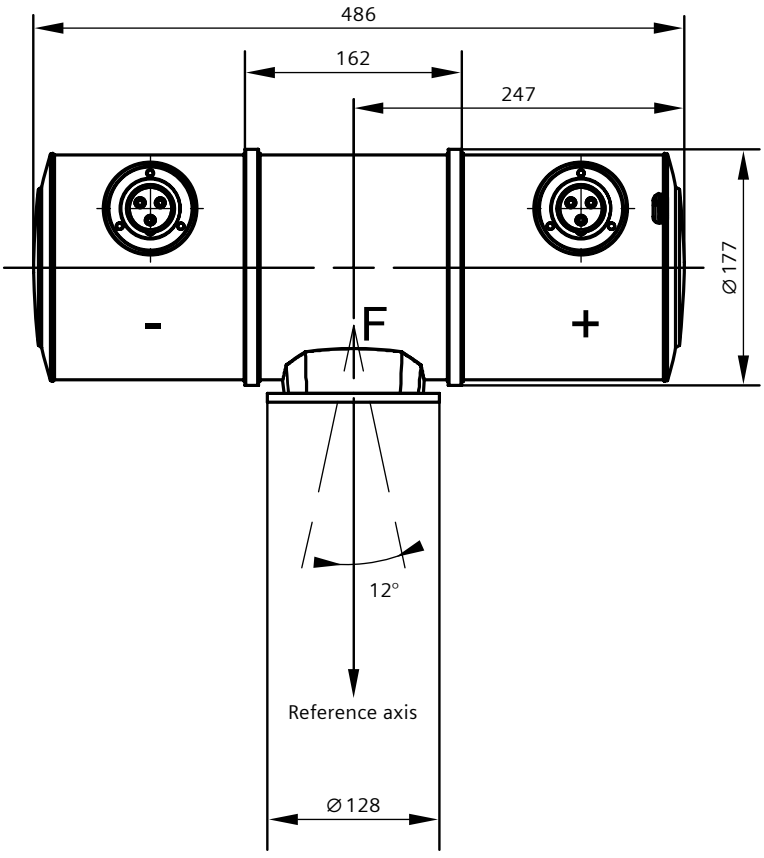
Dimensions

SV 150/40/80C-100F and SV 150/40/80C-100LF

Side view



Front view



¹ Tolerance 0 / – 0.5

F = Focus position
Dimensions are given in mm.
All dimensions are approximate.

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

Types and material numbers

	X-ray tube assembly model type	Mat.-No.
3-phase drive	SV 150/40/80C-100F	11270466
1-phase drive	SV 150/40/80C-100LF	11270460

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Publisher for USA
Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard
Malvern, PA 19355
United States of America

Published by Siemens Healthcare GmbH · 10306993_DS_SV-40/80C-F VFV E00 02, 2023-08 · PDF only · 12925 0823 · ©Siemens Healthcare GmbH, 2023