



SV 150/40/80HC-100F

SV 150/40/80HC-100LF

oem-products.siemens-healthineers.com

Features and benefits

Siemens Healthineers

SV 150/40/80HC-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 150/40/80HC-100F and the SV 150/40/80HC-100LF were designed to meet the demand for low total cost of ownership.



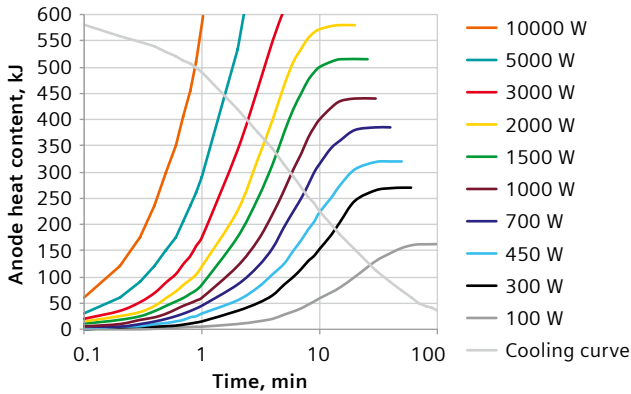
- 800 kHU anode heat storage capacity for efficient X-ray examinations
- Focal spots of IEC 0.6 and IEC 1.0 allow excellent image quality
- High power on both focal spot
- Available with 1- and 3-phase stator drive
- High long-term dose yield
- Excellent quality and reliability

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			AC < 20 kHz
maximum current	5.1 A	5.1 A	
maximum voltage	≈ 11.9 V	≈ 18.7 V	
Anode angle	12°		
Anode heat storage capacity	580 kJ (800 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)			IEC 60522 (1999), IEC 60601-1-3 (2008) (at 75 kV)
permanent filtration	1.5 mm Al		
additional filtration (removable)	2 × 0.5 mm (= 1 mm) Al		
X-ray tube assembly weight	≈ 26 kg		

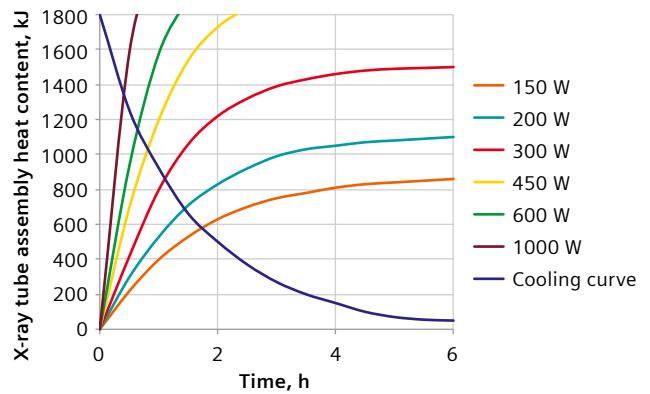
Heating and cooling curves

Anode



According to IEC 60613 (1989)

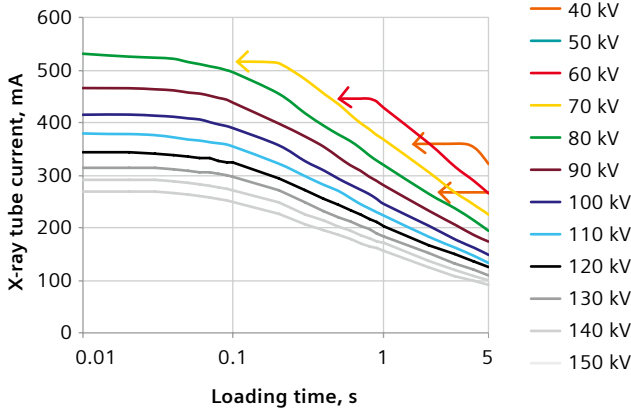
X-ray tube assembly (without fan)



According to IEC 60613 (1989)

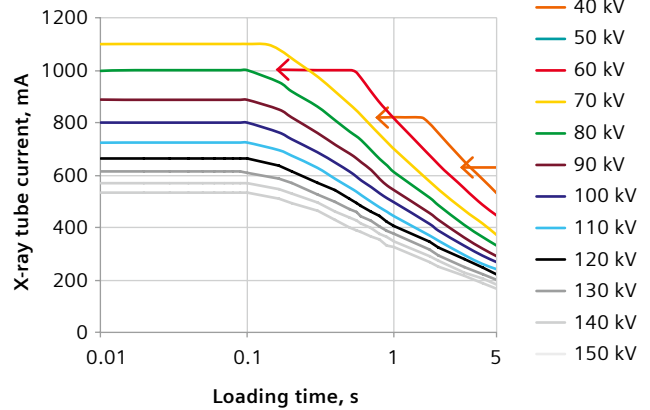
Single load rating charts

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

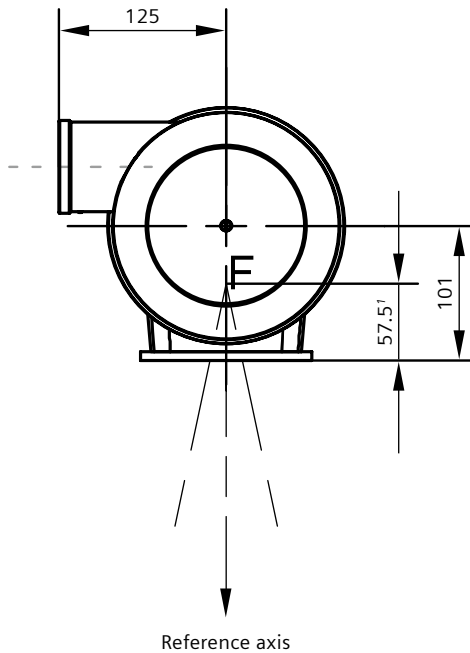


According to IEC 60613 (1989)
Anode rotation frequency 150 Hz/180 Hz
Thermal anode reference power 300 W

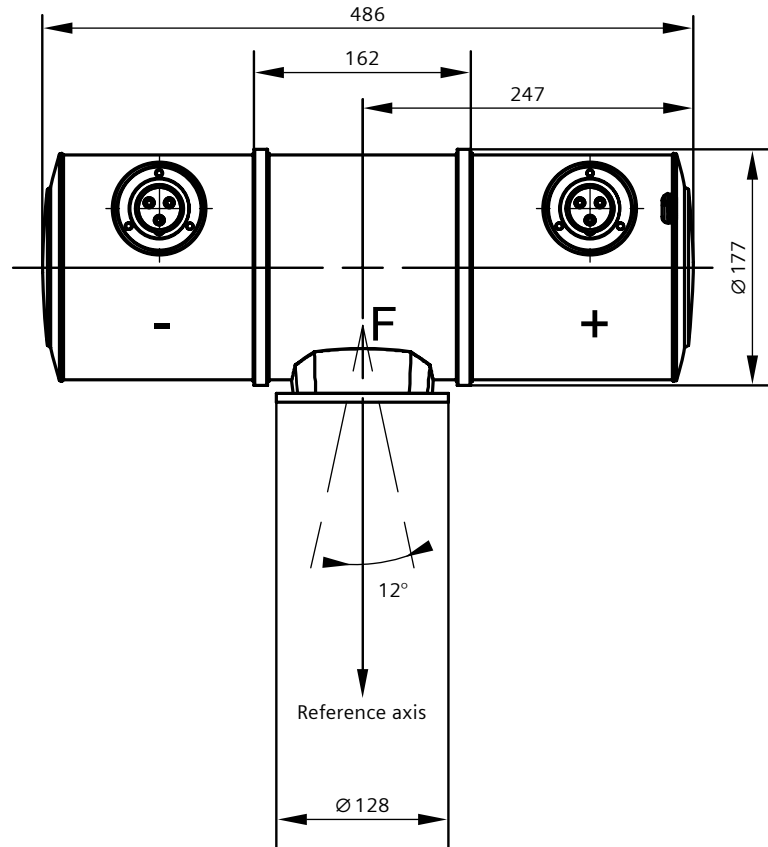
Dimensions

SV 150/40/80HC-100F and SV 150/40/80HC-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 150/40/80HC-100F	11270455
1-phase drive	SV 150/40/80HC-100LF	11270450

This document is not considered to be a contractual specification. Kindly contact Siemens Healthineers prior to using this information for equipment design.

These components and configurations are not finished medical devices. Compliance with all laws and regulations that are applicable to finished medical devices is the responsibility of the assembler/manufacturer of the finished medical device.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

Technical data provided in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

The components are maybe branded "Siemens Healthineers". However, the purchaser shall not market the components using the "Siemens Healthineers" brand name and/or trademark. The purchaser may integrate these components into a system using its own brands and labels. The product names and/or brands referred to are the property of their respective trademark holders.

This document shall not be made available to healthcare professionals or to the general public.

The Technology Centers of Siemens Healthineers AG (TCs)/ Siemens X-Ray Vacuum Technology Ltd., Wuxi, are ISO 13485-certified. Components and products are manufactured in accordance with the Quality Management System Regulation (QMSR) as defined by the U.S. Food and Drug Administration (FDA). The TCs endeavor to comply with legal requirements concerning the environmental compatibility of their products.

The reproduction, transmission or use of this document or its contents is not permitted without express written consent. Offenders will be liable for damages.

Siemens Healthineers reserves the right to modify the design and specifications contained herein without prior notice. All rights reserved, particularly in connection with patent applications or registrations of utility model or design.

Siemens Healthineers Headquarters

Siemens Healthineers AG
Siemensstr. 3
91301 Forchheim, Germany
Phone: +49 9191 18-0
siemens-healthineers.com

Manufacturer

Siemens X-Ray Vacuum Technology
Ltd., Wuxi
No. 112, Meiyu Road
214028 Wuxi, Jiangsu
PEOPLE'S REPUBLIC OF CHINA

Local Contact Information

Siemens Healthineers AG
Technology Centers
Power & Vacuum Products
An der Laende 3–9
91301 Forchheim, Germany
oem.func@siemens-healthineers.com
oem-products.siemens-healthineers.com

Publisher for USA

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