



SV 150/40/80C-100

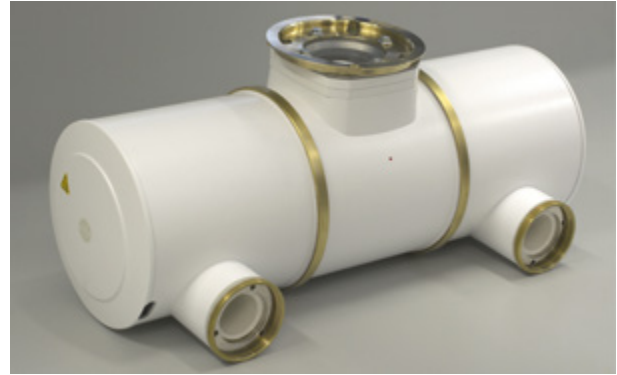
oem-products.siemens-healthineers.com

Features and benefits

Siemens Healthineers SV 150/40/80C-100

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-100 was designed to meet the demand for low total cost of ownership.



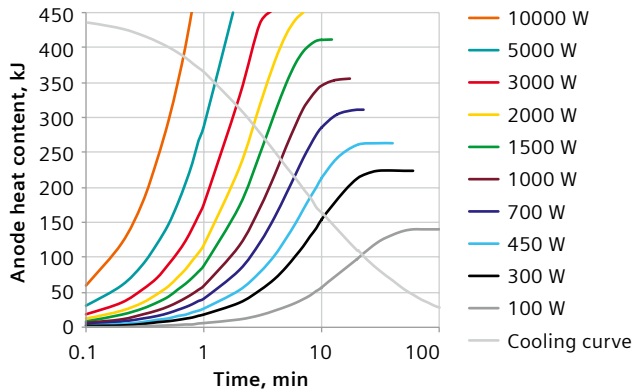
- 600 kHU anode heat storage capacity for efficient X-ray examinations
- Focal spots of IEC 0.6 and IEC 1.0 allow excellent image quality
- High power on both focal spot
- Available with 1- and 3-phase stator
- High long-term dose yield
- Excellent quality and reliability

Technical data

Nominal voltage	150 kV		IEC 60613 (2010)
Nominal 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) (at 300 W average anode input power)
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	16°		
Anode heat storage capacity	450 kJ = 600 kHU		IEC 60613 (1989)
Anode drive frequencies for exposure	150 / 180 Hz		
Heat storage capacity of assembly	1.800 MJ = 2.430 MHU		IEC 60613 (1989)
Nominal continuous input power (without / with fan)	300 W / 450 W		IEC 60613 (2010) (at ambient temperature < 25 °C)
Radiation leakage	≤ 0.8 mGy/h		IEC 60601-1-3 (2008) (at 150 kV, 450 W, 1 m distance)
Inherent filtration			IEC 60522 (2003), IEC 60601-1-3 (2008) (at 75 kV)
permanent filtration	1.5 mm Al		
additional filtration	2 x 0.5 mm (= 1 mm) Al		
Weight	≈ 26 kg		

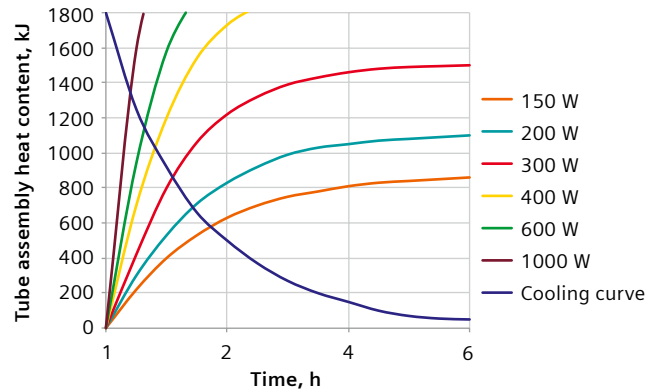
Heating and cooling curves

Anode



According to IEC 60613 (1989)

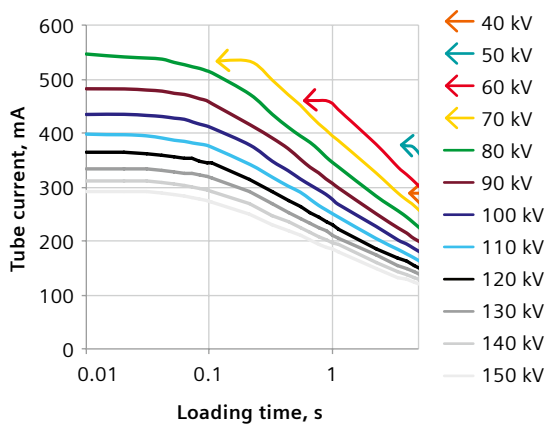
X-ray tube assembly (without fan)



According to IEC 60613 (1989)

Rating charts

Focal spot IEC 0.6

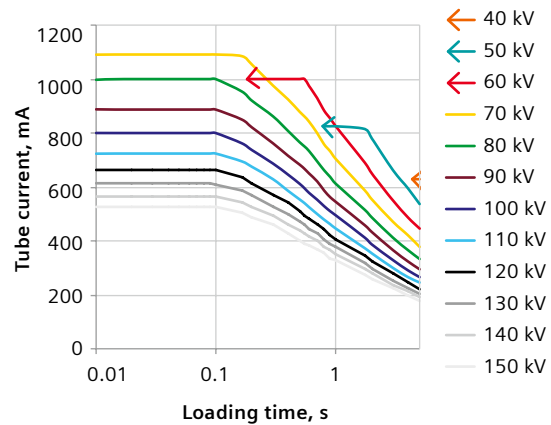


According to IEC 60613 (1989)

Anode drive 60 Hz

Thermal anode reference power 300 W

Focal spot IEC 1.0



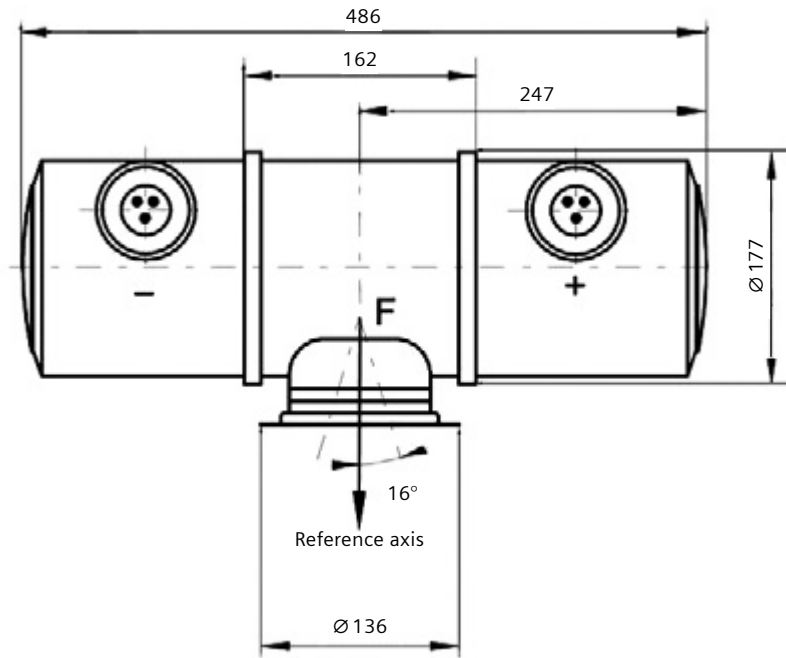
According to IEC 60613 (1989)

Anode drive 60 Hz

Thermal anode reference power 300 W

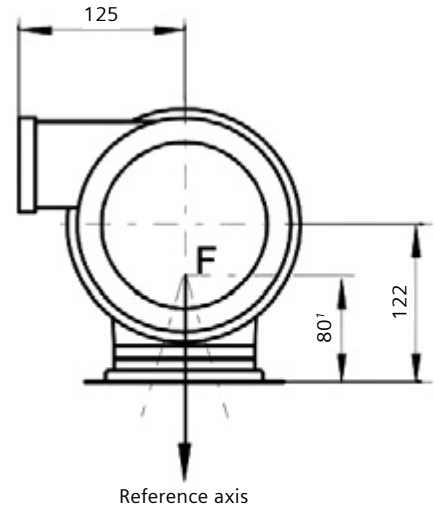
Dimensions

Front view



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

Side view



¹ Tolerance +2.0/-0.5

F = Focus position
Dimensions are given in mm.

Types and material numbers

	3-phase drive	1-phase drive
Housing	SV 150/40/80C-100	SV 150/40/80C-100 L
Mat.-No.	4802349	4803263

This document is not considered to be a contractual specification. Kindly contact Siemens Healthcare GmbH 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 are the responsibility of the 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.

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.

The information in this document is intended for medical device manufacturer who intend to integrate the component into a finished medical device under their responsibility. It is not intended for Healthcare professionals or to the general public.

The Technology Centers of Siemens Healthcare GmbH (TCs) are ISO 13485 certified. Components and products are manufactured in accordance with the Quality System Regulations (QSR) 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 Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Manufacturer

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany

Local Contact Information

Siemens Healthcare GmbH
Technology Excellence
Power & Vacuum Products
Allee am Roethelheimpark 2
91052 Erlangen, Germany
Phone: +49 9131 84-6911
oem-products.siemens-healthineers.com

Publisher for USA

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