



RAY-10

oem-products.siemens-healthineers.com

Features and benefits

Siemens Healthineers RAY-10

This compact X-ray tube assembly was developed for use in radiographic systems for veterinary applications.

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

- Available with 1-phase stator
- Compact tube housing
- High long-term dose yield
- Excellent quality and reliability

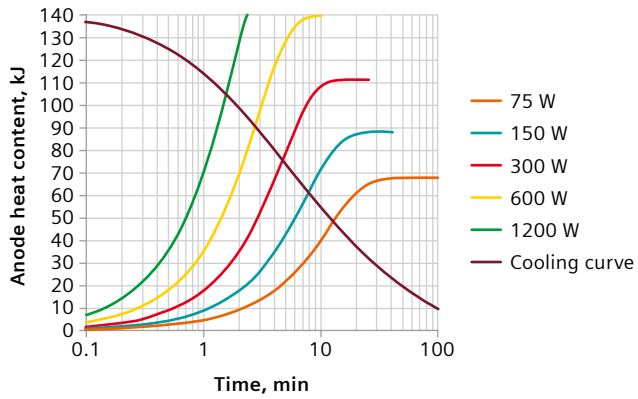


Technical data

Nominal voltage	150 kV		IEC 60613:2010
Nominal focal spot value	0.6	1.2	IEC 60336:2020+C1:2022
Nominal anode input power (60 Hz)	20 kW	50 kW	IEC 60613:2010 (at 150 W average anode input power)
Nominal radiographic anode input power (60 Hz)	20 kW	50 kW	IEC 60613:2010
Filament heating			AC < 50 kHz
	maximum current	4.6 A	5.5 A
	maximum voltage	≈ 9.0 V	≈ 15.0 V
Anode angle	12°		
Anode heat storage capacity	141 kJ = 200 kHU		
Anode drive frequencies for exposure	50/60 Hz		
Heat storage capacity of assembly	0.9 MJ		
Nominal continuous input power of assembly (without/with fan)	275 W	450 W	IEC 60613:2010 (at ambient temperature < 25 °C)
Radiation leakage	≤ 0.8 mGy/h		IEC 60601-1-3:2013 + A2:2021
Total inherent filtration	2.5 mm Al/75 kV		IEC 60522-1:2020, IEC 60601-1-3:2013 + A2:2021
Weight (incl. flange)	≈ 17 kg		
Maximum anode frequency	60 Hz		

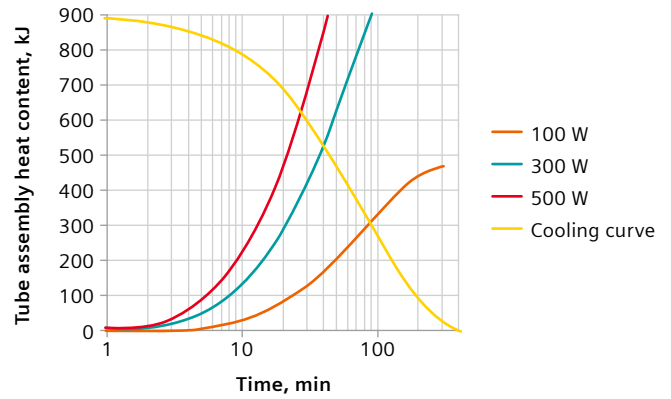
Heating and cooling curves

Anode



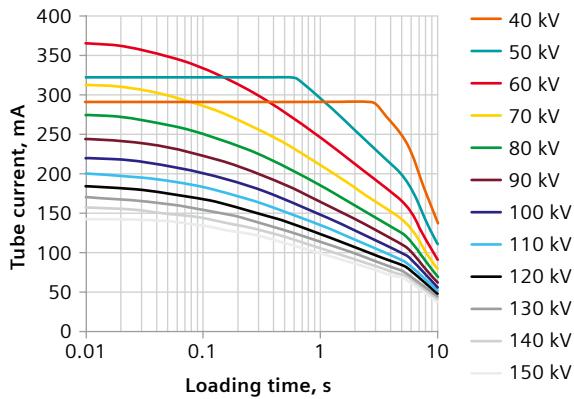
According to IEC 60613:2010

X-ray tube assembly (without fan)



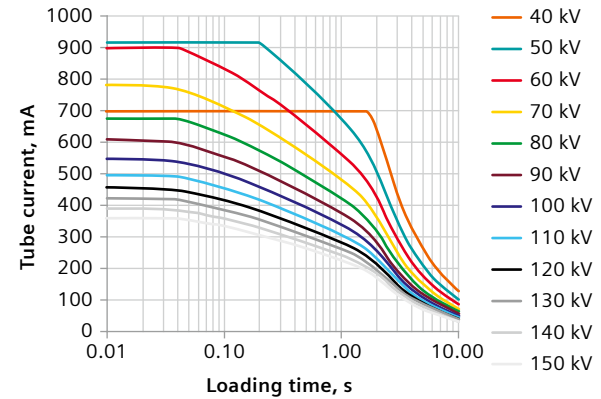
According to IEC 60613:2010

Focal spot IEC 0.6



According to IEC 60613:2010
Anode drive 50/60 Hz
Thermal anode reference power 150 W

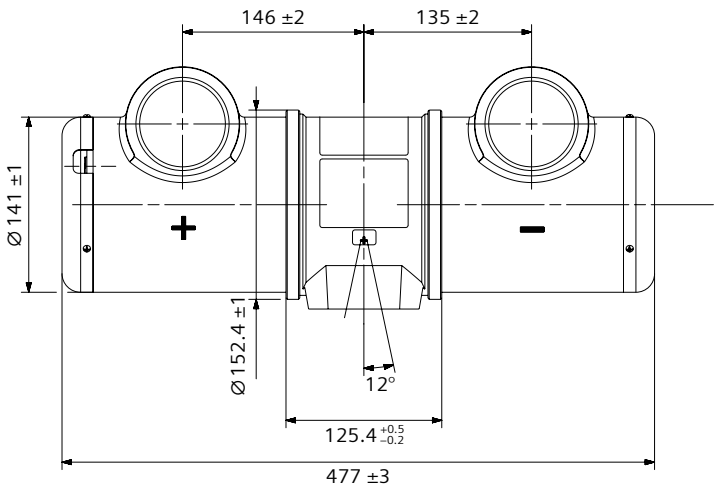
Focal spot IEC 1.2



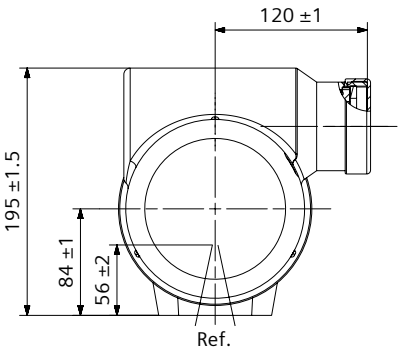
According to IEC 60613:2010
Anode drive 50/60 Hz
Thermal anode reference power 150 W

Dimensions

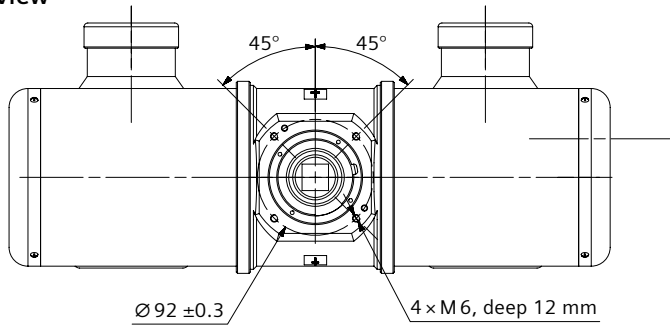
Front view



Side view



Top view



Dimensions are given in mm.

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

Type and material number

Type	Material number
RAY-10_1	11666200

The products/features (here mentioned) are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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 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 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
P.R. China

Local Contact Information in Germany

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