

SEIFERT X-ray Tubehousing

ISOVOLT 420 / 10



Application

Radiographic and radiosopic inspections of welds and castings.

Radiometric and dosimetry applications.

Features

- Direct radiating tube with double focus, bipolar, oil-cooled anode, axial high voltage connections
- Metal-ceramic tube with oblique anode and beryllium window
- Compatible with X-ray equipment of the ISOVOLT series
- Produced under ISO 9001 certified quality management system

Options

- Centering and collimator attachment with laser centering device or telescopic rod
- Tube yokes
- Beam shutters
- Motorized limiting diaphragms

GE imagination at work



Dose Rate within the Central Beam

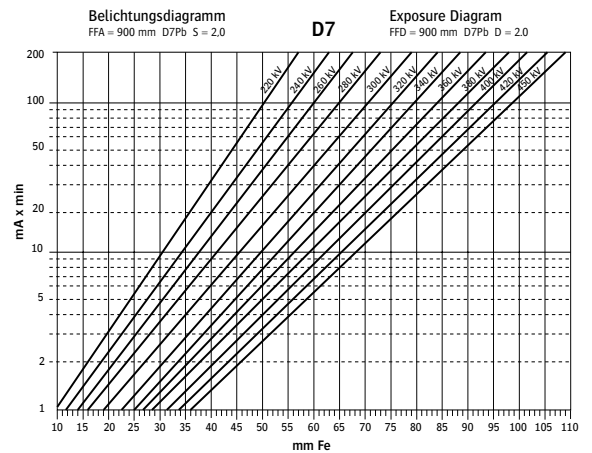
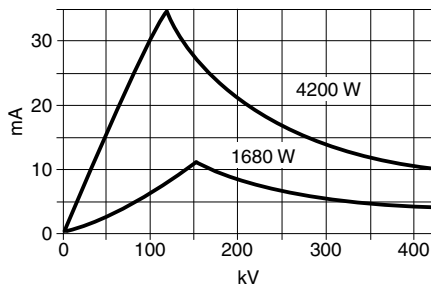
The generation of radiation in an X-ray tube solely depends on the operation values, not on the make.

The dose rate relevant in practice and suitable for calculations of radiation

protection values is defined by national standards; thus the dose rate of the tubehousing ISOVOLT 420/10, measured at a distance of 1 m from the focal spot, amounts to 35.4 Sv/h at maximum tube voltage and maximum anode dissipation.

This value must not be used to assess biological effects.

The dose rate of the leakage radiation is < 10 mSv/h (1 rem/h).



Technical Data

Maximum tube voltage	420 kV	
	Large focal spot	Small focal spot
Maximum anode dissipation	4200 W	1680 W
Tube current at max. tube voltage	10 mA	4 mA
Focal spot size (EN 12 543)	6.30 mm (~ 3.5 IEC 336)	3.00 mm (~ 1.5 IEC 336)
Emergent beam angle	40°	
Inherent filtration	7 mm Be	
High voltage connection	2 disk connections for 225 kV	
Cooling oil flow rate	min. 17 l/min	
Cooling oil temperature	max. 50° C	
Cooling oil pressure	max. 7 bar	
Weight (with optional cable quick-lock)	75 kg (165 lbs)	
Dimensions	see drawing	

