



# MEGALIX Cat

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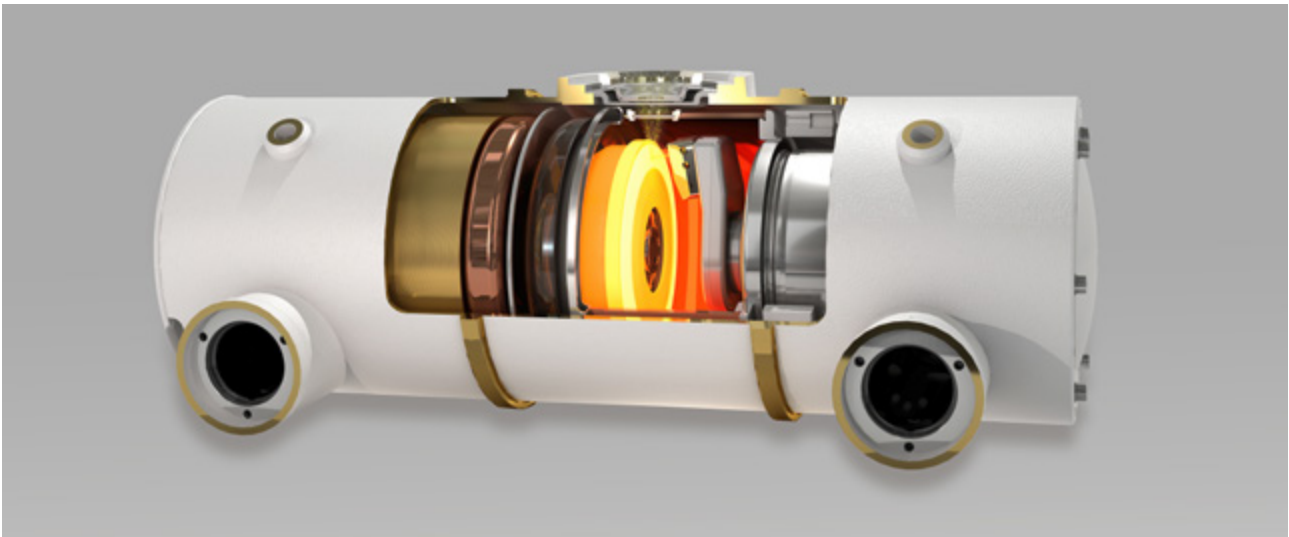
# Features and benefits

## Siemens Healthineers MEGALIX Cat Two-focus & Three-focus Types

The MEGALIX Cat X-ray tube assembly is typically used for high-power diagnostic techniques, especially angiocardiology. It is suitable for direct and indirect radiography and pulsed cine mode in connection with generators working with pulsed high-voltage control.

The rotating-anode X-ray tube comprises metal center section technology with two or three superimposed focal spots, a 120 mm graphite compound anode and an almost noiseless liquid-metal lubricated spiral groove bearing.

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- 3 MHU anode heat storage capacity for efficient X-ray examinations
  - Liquid-metal spiral groove bearing for efficient heat transfer from the anode and almost noiseless operation
  - Available with 2 or 3 focal spots
  - Focal spots of IEC 0.4 and IEC 0.8 (2F) and IEC 0.3, IEC 0.6 and IEC 1.0 (3F) allow excellent image quality
  - High power for all focal spots
  - Grid functionality for some types
  - High long-term dose yield
  - Excellent quality and reliability
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## Technical data 2F

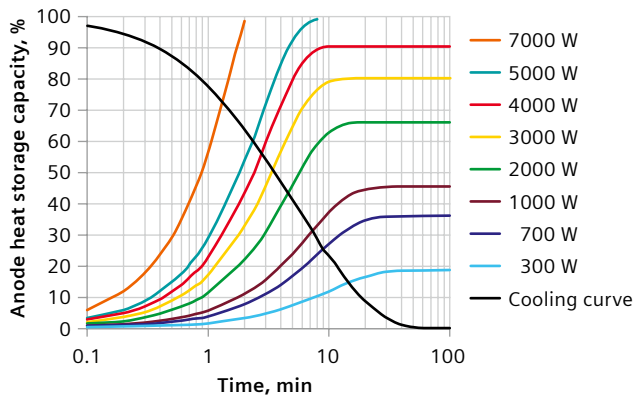
Nominal X-ray tube voltage	125 kV		IEC 60613:2010
Nominal focal spot value	0.4	0.8	IEC 60336:2020+C1:2022
Nominal anode input power (at 300 W average anode input power)	35 kW	80 kW	
Nominal anode input power (for the equivalent anode input power of 0 W)	42 kW	112 kW	
Nominal radiographic anode input power	35 kW	80 kW	IEC 60613:2010
Filament heating			~1AC, < 50 kHz
maximum current	5.1 A	7.8 A	
maximum voltage	≈ 7.5 V	≈ 15.2 V	
Anode angle	8.5°		
Anode heat storage capacity	3.0 MHU		
Anode drive frequencies for exposure	130–160 Hz		
Heat storage capacity of assembly	4.86 MHU		
Continuous anode input power	10 min: 4000 W 20 min: 3000 W > 30 min: 2500 W		IEC 60613:2010
Leakage radiation (at 125 kV, 1 m distance) IEC 60601-1-3:2021 (Ed.2.2)	< 0.35 mGy/h (2000 W) < 0.44 mGy/h (2500 W)		
Permanent filtration of the X-ray tube assembly	1.5 mm Al		IEC 60522-1:2020, IEC 60601-1-3:2021 (at 75 kV)
X-ray tube assembly weight			
Models 121/122/125 GW	≈ 36 kg		
Model 123 GW	≈ 47 kg		

## Technical data 3F

Nominal X-ray tube voltage	125 kV			IEC 60613:2010
Nominal focal spot value	0.3	0.6	1.0	
Nominal anode input power (at 300 W average anode input power)	15 kW	40 kW	80 kW	
Nominal anode input power (for the equivalent anode input power of 0 W)	18 kW	52 kW	100 kW	
Nominal radiographic anode input power	15 kW	40 kW	80 kW	IEC 60613:2010
Filament heating				~1AC, < 50 kHz
maximum current	5.3 A	5.1 A	4.9 A	
maximum voltage	≈ 6.5 V	≈ 11.3 V	≈ 17.3 V	
Anode angle	12.5°			
Anode heat storage capacity	3.0 MHU			
Anode drive frequencies for exposure	130–160 Hz			
Heat storage capacity of assembly	4.86 MHU			
Continuous anode input power	10 min: 4000 W 20 min: 3000 W > 30 min: 2500 W			IEC 60613:2010
Leakage radiation (at 125 kV, 1 m distance) IEC 60601-1-3:2021 (Ed.2.2)	< 0.35 mGy/h (2000 W) < 0.44 mGy/h (2500 W)			
Permanent filtration of the X-ray tube assembly	1.5 mm Al			IEC 60522-1:2020, IEC 60601-1-3:2021 (at 75 kV)
X-ray tube assembly weight Models 121/122/125 GW Model 123 GW	≈ 36 kg ≈ 47 kg			

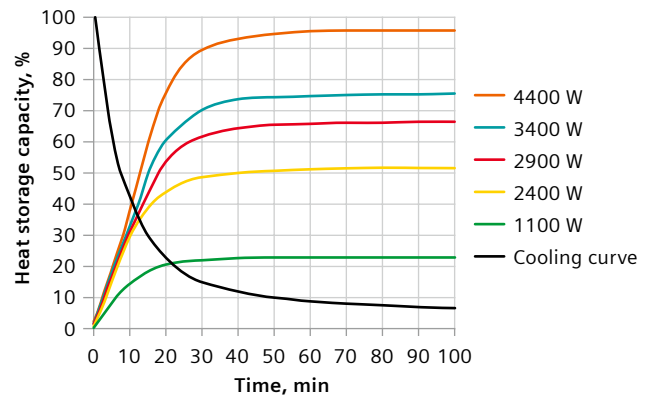
# Heating and cooling curves

Anode



According to IEC 60613:2010

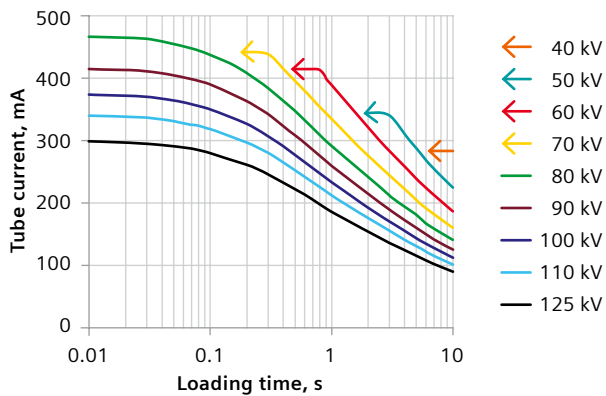
X-ray tube assembly



According to IEC 60613:2010

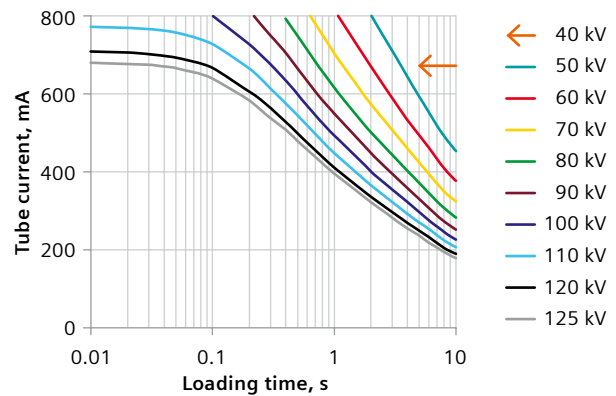
# Single load rating charts 2F

Small focus 0.4



According to IEC 60613:2010

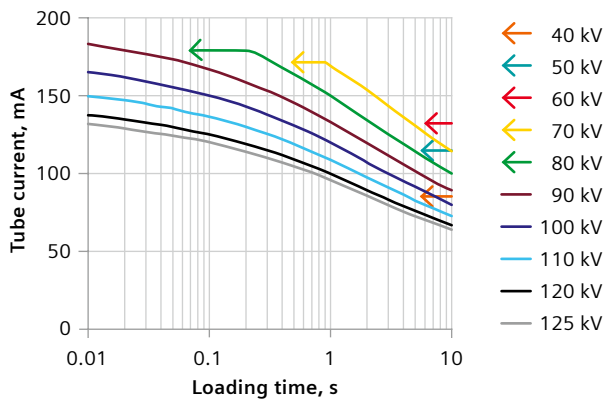
Large focus 0.8



According to IEC 60613:2010

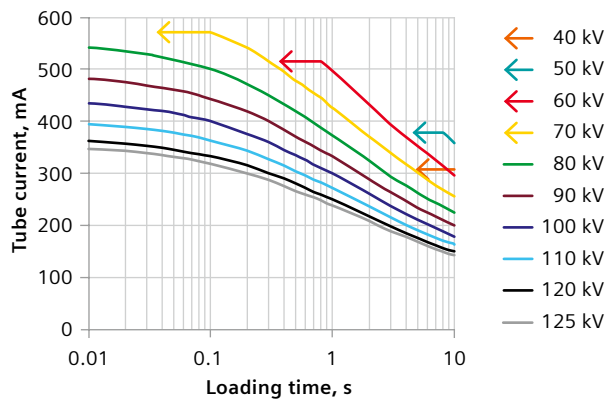
# Single load rating charts 3F

Micro focus 0.3



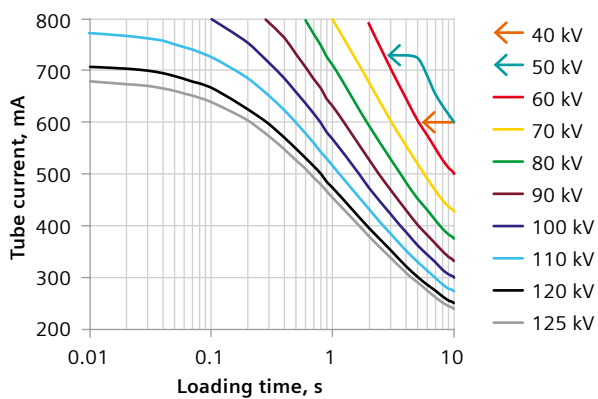
According to IEC 60613:2010

Small focus 0.6



According to IEC 60613:2010

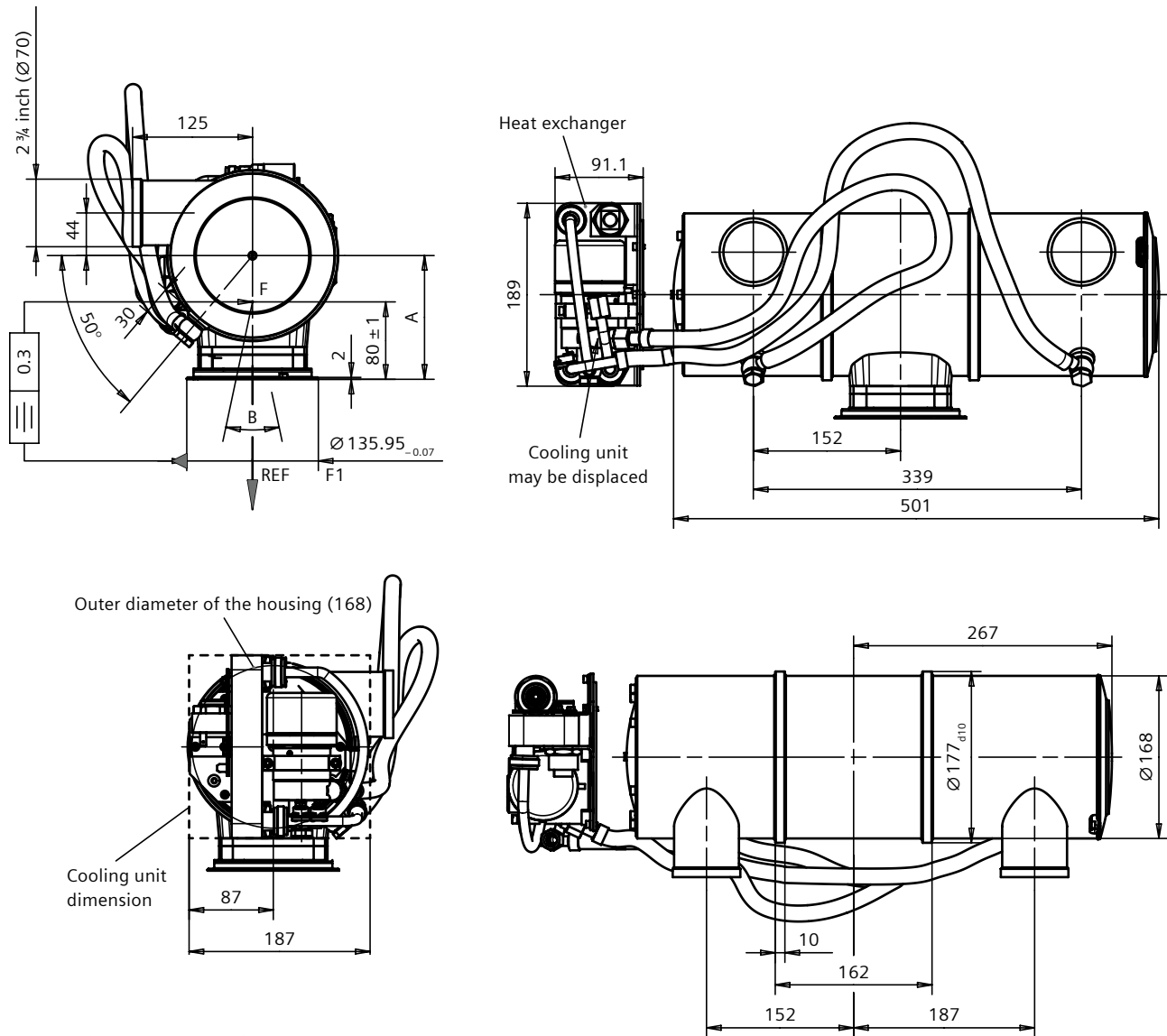
Large focus 1.0



According to IEC 60613:2010

# Dimensions

In our portfolio, we have X-ray Tube Assemblies with different variably installable cooling unit.  
For example the dimensional drawing of MEGALIX Cat 125/15/40/80 – 122 GW:



$A = 129.3^{+0.9}_{-0.8}$  (3F type) /  $128.3^{+0.8}_{-0.7}$  (2F type)

$B = 30^\circ$  (3F type) /  $17^\circ$  (2F type)

F = Focus position

Dimensions are given in mm.

All dimensions are approximate.

# Types and material numbers

	X-ray tube assembly model type	Mat.-No.
3F type	MEGALIX Cat 125/15/40/80 – 122 GW	5765222
2F type	MEGALIX Cat 125/35/80 – 125 GW (grid-controlled)	10756860

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