

The image shows a Siemens Artis One X-ray system in a clinical setting. The system is white with green accents and features a large, curved C-arm. A patient table is positioned in front of the C-arm. To the right, there is a control console with a monitor and various buttons. The Siemens logo is visible in the top left corner.

**SIEMENS**

Data Sheet

# MEGALIX Cat Plus X-ray tube assembly

High power tube for improved image quality

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## High power tube for improved image quality

### Be part of the future

For Artis zee systems:

**MEGALIX Cat Plus**  
**125/20/40/80-121GW/-122GW**

**MEGALIX Cat Plus**  
**125/40/90-121GW/-122GW/-123GW**

For Artis one systems:

**MEGALIX Cat Plus**  
**125/40/90-125GW**

MEGALIX Cat Plus, the latest powerful X-ray tube technology for:

- Cardiology
- Electrophysiology
- Interventional Radiology
- Neuroradiology
- Multi-functional systems
- OR environment

### User benefits

- The first angiography X-ray tube with flat-emitter technology
- High power tube for large patients and complex interventional examinations
- Visualization of fine vessels and micro-catheters
- Choice of up to three superimposed focal spots
- Max. fluoro current (250 mA)
- Aluminum tube window (Beryllium-free)
- Improved focal spot size 0.6 x 0.6
  - Higher fluoro performance
  - Reduced focal spot area by more than 30 %
  - Improved image quality
  - Quadratic focus
- Excellent reliability due to high energy reserves and liquid bearing design
- Compact design for better C-arm positioning
- Almost noiseless operation for a quiet clinical environment
- Excellent performance for interventions
- Reduced life-cycle costs due to the extended lifetime of the tube



# MEGALIX Cat Plus X-ray tube assembly

## MEGALIX Cat Plus 125/20/40/80-121GW/-122GW

## MEGALIX Cat Plus 125/40/90-121GW/-122GW/-123GW/-125GW

### Technical data

High-performance X-ray tube with metal center tube using liquid bearing technology with almost noiseless anode rotation

#### MEGALIX Cat Plus 125/20/40/80-121GW/-122GW

Nominal focal spot (IEC 60336)	0.3	0.6 x 0.6 <sup>1)</sup>	1.0
Nominal power (thermal anode reference power = 300 W)	17 kW	38 kW	80 kW (IEC 60613:1989)
Nominal power (thermal anode reference power = 0 W)	19 kW	42 kW	93 kW (IEC 60613:1989)
Nominal radiographic anode input power	19 kW	39 kW	85 kW (IEC 60613:2010)
Anode angle	12°		

#### MEGALIX Cat Plus 125/40/90-121GW/-122GW/-123GW/-125GW

Nominal focal spot (IEC 60336)	0.4 <sup>1)</sup>	0.8	
Nominal power (thermal anode reference power = 300 W)	35 kW	90 kW (IEC 60613:1989)	
Nominal power (thermal anode reference power = 0 W)	42 kW	112 kW (IEC 60613:1989)	
Nominal radiographic anode input power	38 kW	99 kW (IEC 60613:2010)	
Anode angle	8°		

#### Specifications for all MEGALIX Cat Plus X-ray tube assemblies (according to IEC 60601-2-28)

Nominal voltage (IEC 60613)	125 kV
Typical anode frequency	150 Hz (9,000 rpm)
Tube current	Micro focus: 15 – 66 mA during pulsed fluoroscopy Small focus: 15 – 250 mA during pulsed fluoroscopy Small focus: 15 – 444 mA during acquisition Large focus: 15 – 800 mA during acquisition
Anode input power	up to 4000 W
Weight	approx. 36 kg / 47 kg (-123GW)
Total filtration tube assembly (IEC 60601-1-3)	≥ 2.5 mm Al
Leakage radiation (IEC 60601-1-3) (at 125 kV at 1 m distance)	< 0.44 mGy/h (2500 W)
Maximum anode heat content	2,500,000 J (3,375,000 HU)
Maximum cooling capacity of the anode	400,000 J/min (540,000 HU/min)
Maximum heat content of the X-ray tube assembly	3,600,000 J (4,900,000 HU)
Continuous heat dissipation of the tube assembly	2900 W
-121	Housing for tubes with 120 mm anode disk diameter. Cable inlets at 90° to the radiation exit.
-122	Housing for tubes with 120 mm anode disk diameter. Cable inlets at 90° to the radiation exit. Variably installable cooling unit.
-123	Housing made of magnetically soft steel for tubes with 120 mm anode disk diameter. Cable inlets at 90° to the radiation exit. Variably installable cooling unit.
-125	Housing for tubes with 120 mm anode disk diameter. Cable inlets at 90° to the radiation exit. Variably installable cooling unit. Enlarged beam cone.
G	4-pole cathode receptacle
W	Circulatory cooling system (water/oil)

<sup>1)</sup> With flat emitter technology

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Caution: Federal law restricts this device to sale by or on the order of a physician.

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