

**ANALIX™  
E7341X**

- ◆ The ANALIX E7341X, a water cooled, grounded cathode X-ray tube designed for X-ray fluorescence spectrometry.
- ◆ The maximum input power 3.0 kW.
- ◆ Suitable for the microanalysis of light metals such as Ca and K contained in wasted water.

**General Data**

**Electrical:**

Circuit:

High Voltage Generator .....	Constant Potential High-Voltage Generator
Grounding .....	Cathode Grounded
Nominal X-ray Tube Voltage .....	60 kV
Focal Spot .....	ϕ 14 mm
Starting Tube Voltage .....	20 kV or Less

**Mechanical:**

Dimensions:

Overall Length .....	459 mm
Diameter of Maximum Part .....	ϕ 124 mm

Target:

Angle .....	90 Degrees to The Tube Axis.
Material .....	Rh
Inherent Filtration .....	60 µm Beryllium
Weight .....	Approx. 10 kg

Cooling:

Anode Target .....	Water Cooled
Water Quantity .....	Minimum 2.4 ℓ/min
Water .....	Demineralized, Deoxygenated and High Resistibility Water
Water Resistibility .....	Minimum 500 kΩ·cm
Maximum Inlet Temperature .....	45°C
Maximum Water Pressure .....	490 kPa
Pressure Drop .....	68.6 kPa at 2.4 ℓ/min
Cathode Jacket .....	Water Cooled
Water Quantity .....	Minimum 2.0 ℓ/min
Water .....	Tap Water
Maximum Inlet Temperature .....	55 °C
Maximum Water Pressure .....	490 kPa
Pressure Drop .....	49 kPa at 2.0 ℓ/min

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**Absolute Maximum and Minimum Ratings**  
**(At any time, these values must not be exceeded.)**

Maximum X-ray Tube Voltage .....	60 kV
Minimum X-ray Tube Voltage .....	20 kV
Maximum X-ray Tube Current .....	100 mA
Maximum Filament Current .....	10 A
Filament Frequency Limits .....	20 kHz or Less
Maximum Input .....	3.0 kW

**Environmental Limits**

Operating Limits:

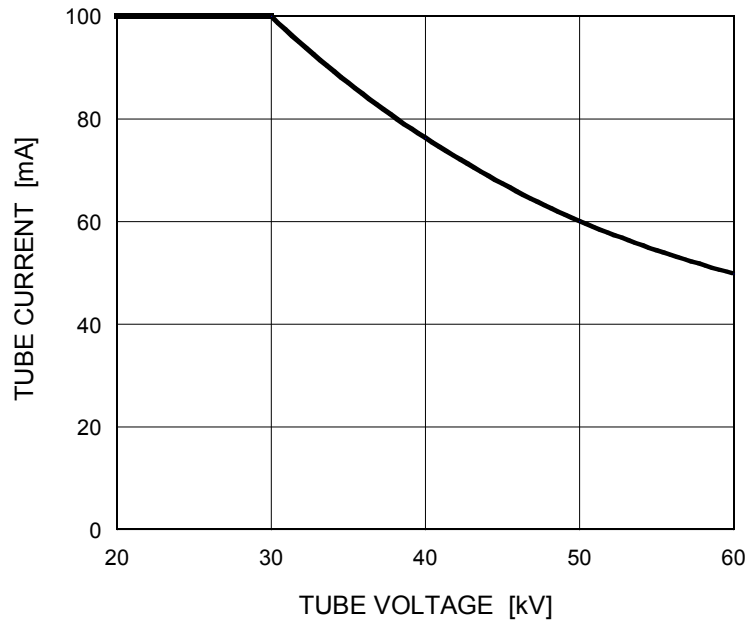
Temperature .....	10 ~ 40 °C
Humidity .....	85 % or Less (No condensation)
Atmospheric Pressure .....	70 ~ 106 kPa
Vibration and Shock .....	Use it in environment without vibration and a shock

Shipping and Storage Limits:

Temperature .....	-20 ~ 70 °C
Humidity .....	85 % or Less (No condensation)
Atmospheric Pressure .....	50 ~ 106 kPa
Vibration .....	4.9 m/s <sup>2</sup> or Less
Shock .....	98 m/s <sup>2</sup> or Less

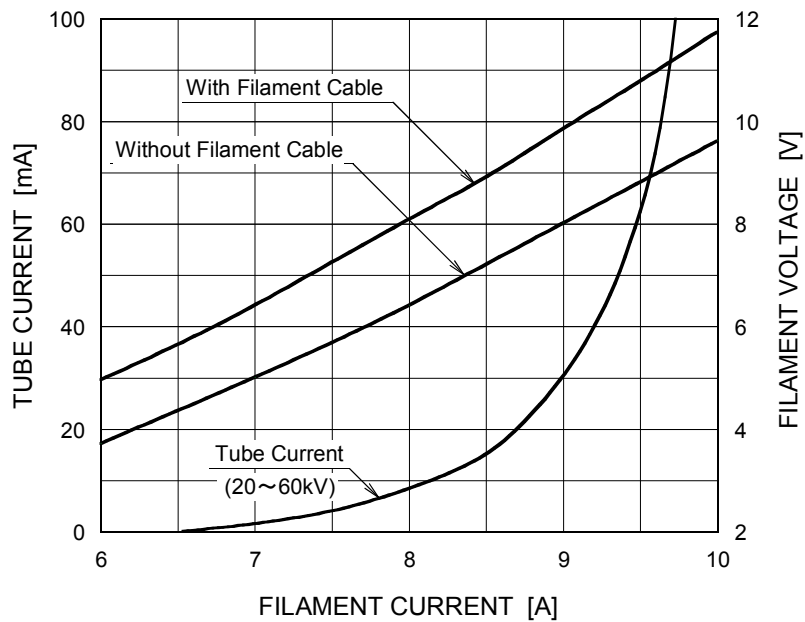
## Maximum Rating Charts (Absolute Maximum Rating Charts)

Constant Potential High-Voltage Generator



## Emission & Filament Characteristics

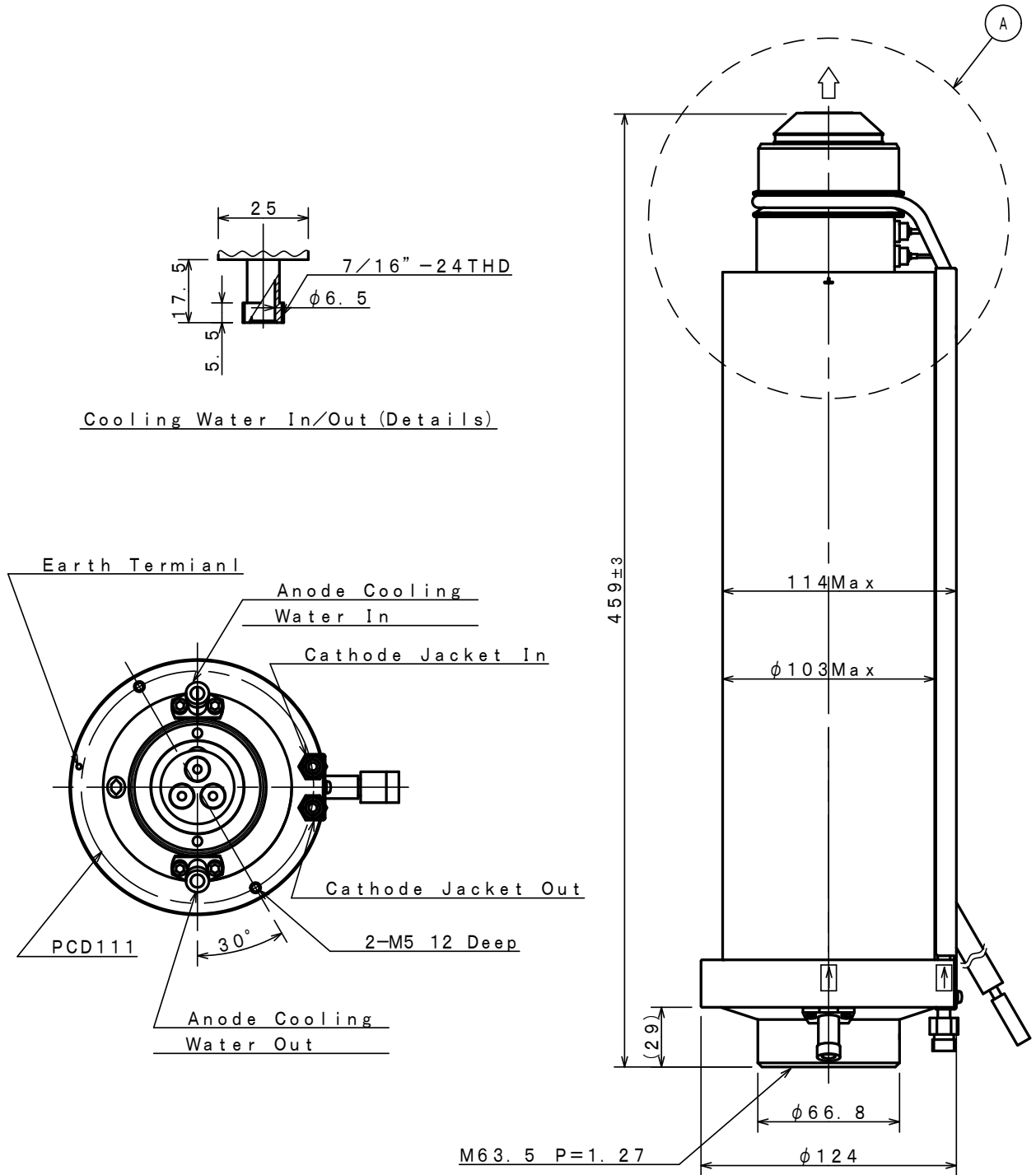
Constant Potential High-Voltage Generator



Note: This graph indicates typical characteristics.

### Dimensional Outline (1)

Unit: mm



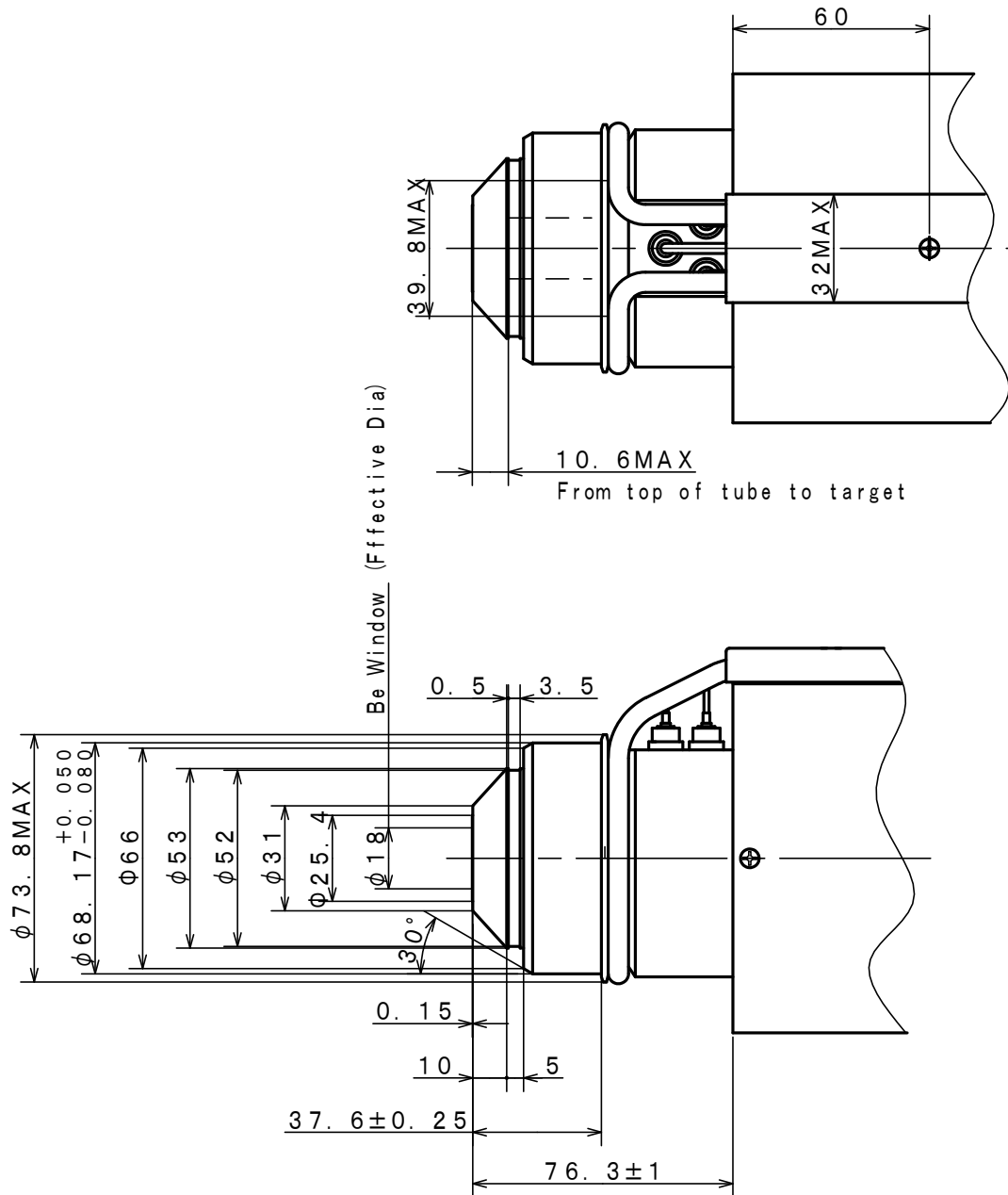
Note:

1. Mark  $\uparrow$  indicates the direction of central X-ray.
2. Filament cable terminal: Amp power lock connector.  
(No. 108-11026, UL No. E28476) Made by AMP (Japan)
3. High voltage cable receptacle: IEC60526 Type.

## Dimensional Outline (2)

Unit: mm

### Ⓐ Enlargement





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·The head office of Canon Electron Tubes & Devices Co., Ltd. has been certified to meet all the requirements of Environmental Management System ISO14001.  
·Canon Electron Tubes & Devices Co., Ltd. has been certified to meet all the requirements of Quality Management Systems ISO9001 and ISO13485.  
Product scope is referred to the following URL. <https://etd.canon/eng/company/quality.htm>.