

**ANALIX®  
E7350X**

- ◆ The ANALIX E7350X, a water cooled, grounded cathode X-ray tube designed for X-ray fluorescence spectrometry.
- ◆ The maximum input power 4.0 kW.
- ◆ Suitable for light element analysis.

**General Data**

**Electrical:**

Circuit:

High Voltage Generator ..... Constant Potential High-Voltage Generator

Grounding ..... Cathode Grounded

Nominal X-ray Tube Voltage ..... 60 kV

Focal Spot:

Diameter .....  $\phi$  17.0 mm

Nominal outer diameter .....  $\phi$  17.0 mm

Nominal inner diameter .....  $\phi$  7.2 mm

**Mechanical:**

Dimensions:

Overall Length ..... 459 mm

Diameter of Maximum Part .....  $\phi$  124 mm

Target:

Angle ..... 90 Degrees to The Tube Axis.

Material ..... Rhodium (Rh)

Inherent Filtration ..... 0.05 mm Beryllium

Weight ..... Approx. 10 kg

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## Cooling:

Anode Target .....	Water cooled
Water Quantity .....	Minimum 3.3 ℓ/min
Water Quality .....	Demineralized, Deoxygenated and High Resistibility Water
Water Resistance .....	Minimum 500 kΩ·cm
Maximum Inlet Temperature .....	45°C
Maximum Water Pressure .....	490 kPa
Pressure Drop .....	176 kPa at 3.3 ℓ/min
Cathode Jacket .....	Water Cooled
Water Quantity .....	Minimum 3.1 ℓ/min
Water Quality .....	Circulated Anode Water or Tap Water
Maximum Inlet Temperature .....	55 °C
Maximum Water Pressure .....	490 kPa
Pressure Drop .....	118 kPa at 3.1 ℓ/min

**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 .....	150 mA
Maximum Filament Current .....	11 A
Filament Frequency Limits .....	AC (Sine Wave) 20 kHz or Less
Maximum Input .....	4.0 kW

### Environmental Limits

## Operating Limits:

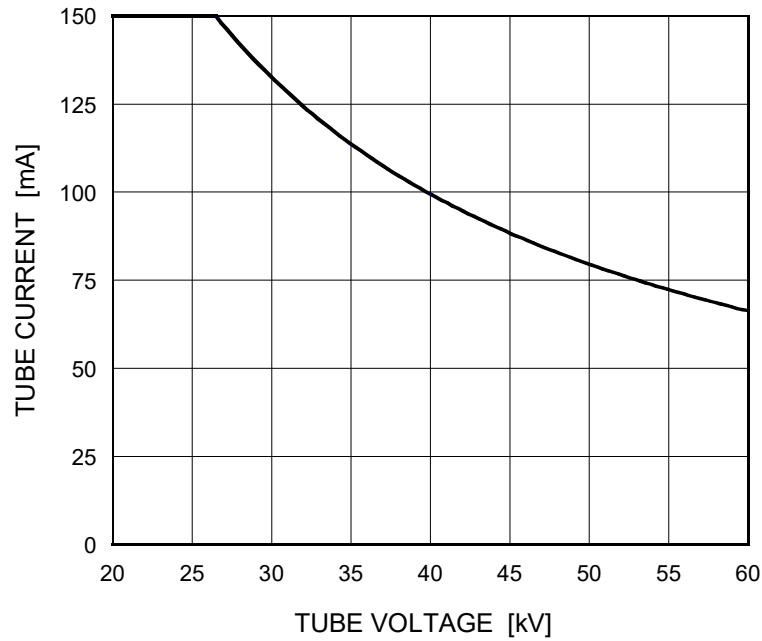
Temperature .....	10 ~ 40 °C
Humidity .....	85 % or Less (No condensation)
Atmospheric Pressure .....	70 ~ 106 kPa
Vibration and Shock .....	Use it in environment without vibration and a shock

## Shipping and Storage Limits:

Temperature .....	-18 ~ 60 °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

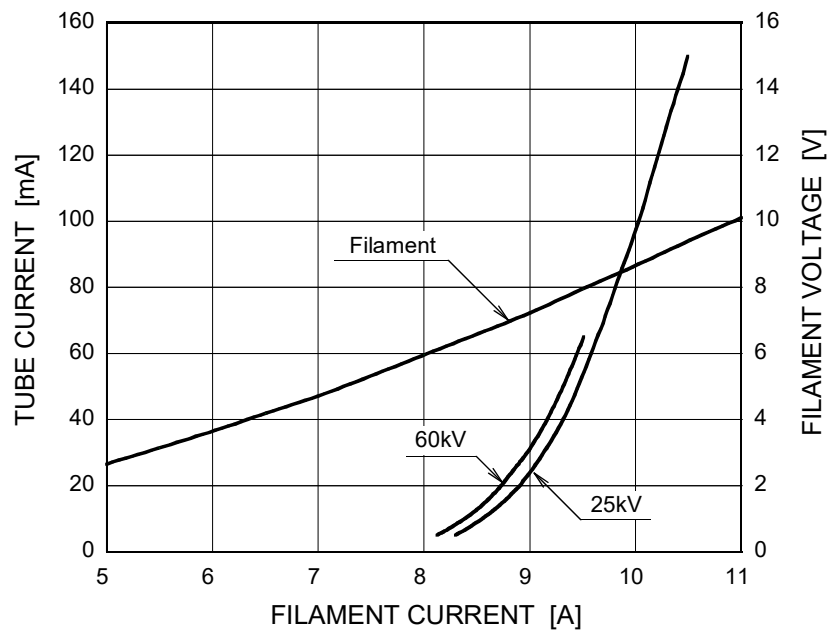
## Maximum Rating Charts (Absolute Maximum Rating Charts)

Constant Potential High-Voltage Generator



## Emission & Filament Characteristics

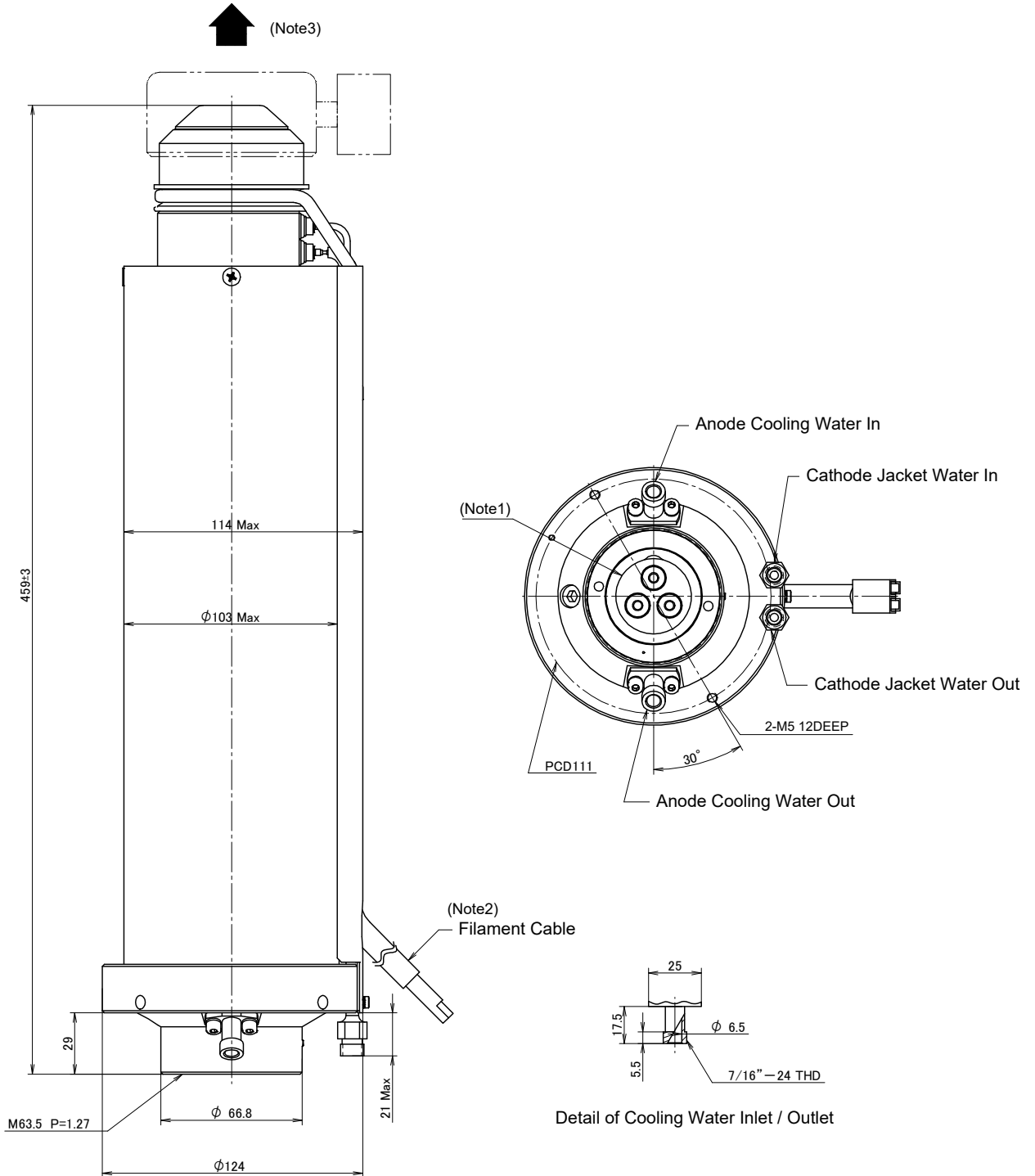
Constant Potential High-Voltage Generator



Note: This graph indicates typical characteristics.

### Dimensional Outline

Unit: mm



(Note1) High tension cable receptacle: IEC 60526 Type.

(Note2) Filament cable terminal: Amp power lock connector.

(No. 108-11026, UL No. E28476) Made by AMP (Japan).

(Note3) Mark indicates the direction of central X-ray.

## Dimensional Outline (2)

Unit: mm

