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℃
  - 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 ℃
  - Maximum Water Pressure ..... 490 kPa
  - Pressure Drop ..... 49 kPa at 2.0 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	100 mA
Maximum Filament Current	10 A
Filament Frequency Limits	20 kHz or Less
Maximum Input	3.0 kW

Environmental Limits

Operating Limits:

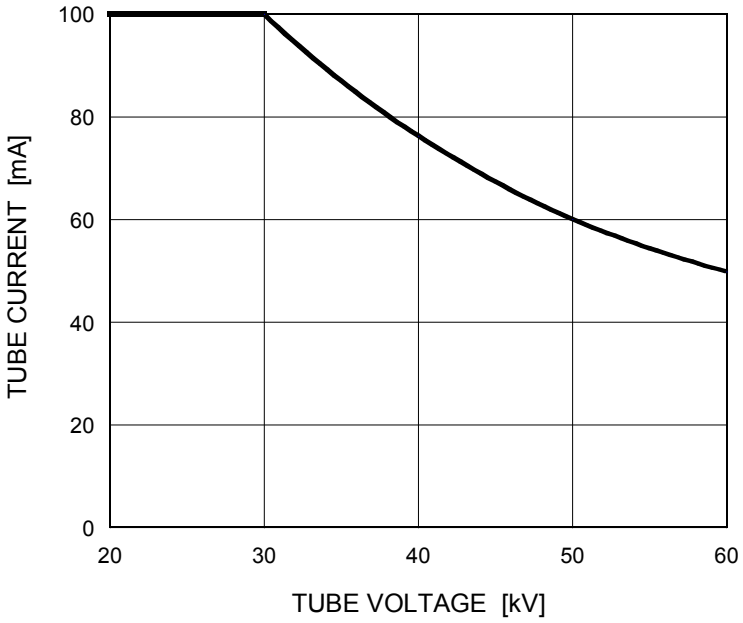
Temperature	10 ~ 40 ℃
Humidity	85 % or Less (No condensation)
Atmospheric Pressure	70 ~ 106 kPa
Vibration and Shock	Use it in environment without vibration and a shock

Shipping and Storage Limits:

Temperature	-20 ~ 70 ℃
Humidity	85 % or Less (No condensation)
Atmospheric Pressure	50 ~ 106 kPa
Vibration	4.9 m/s^2 or Less
Shock	98 m/s^2 or Less

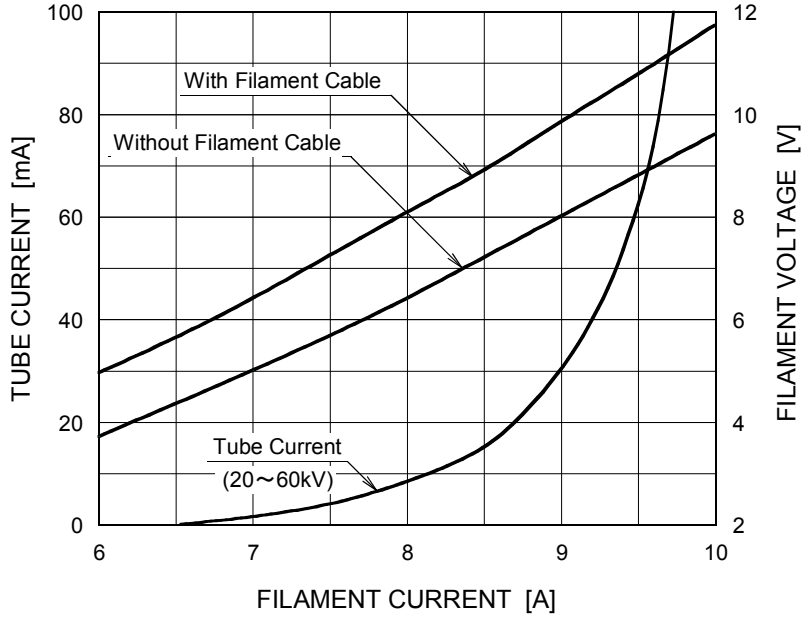
Maximum Rating Charts
(Absolute Maximum Rating Charts)

Constant Potential High-Voltage Generator



Emission & Filament Characteristics

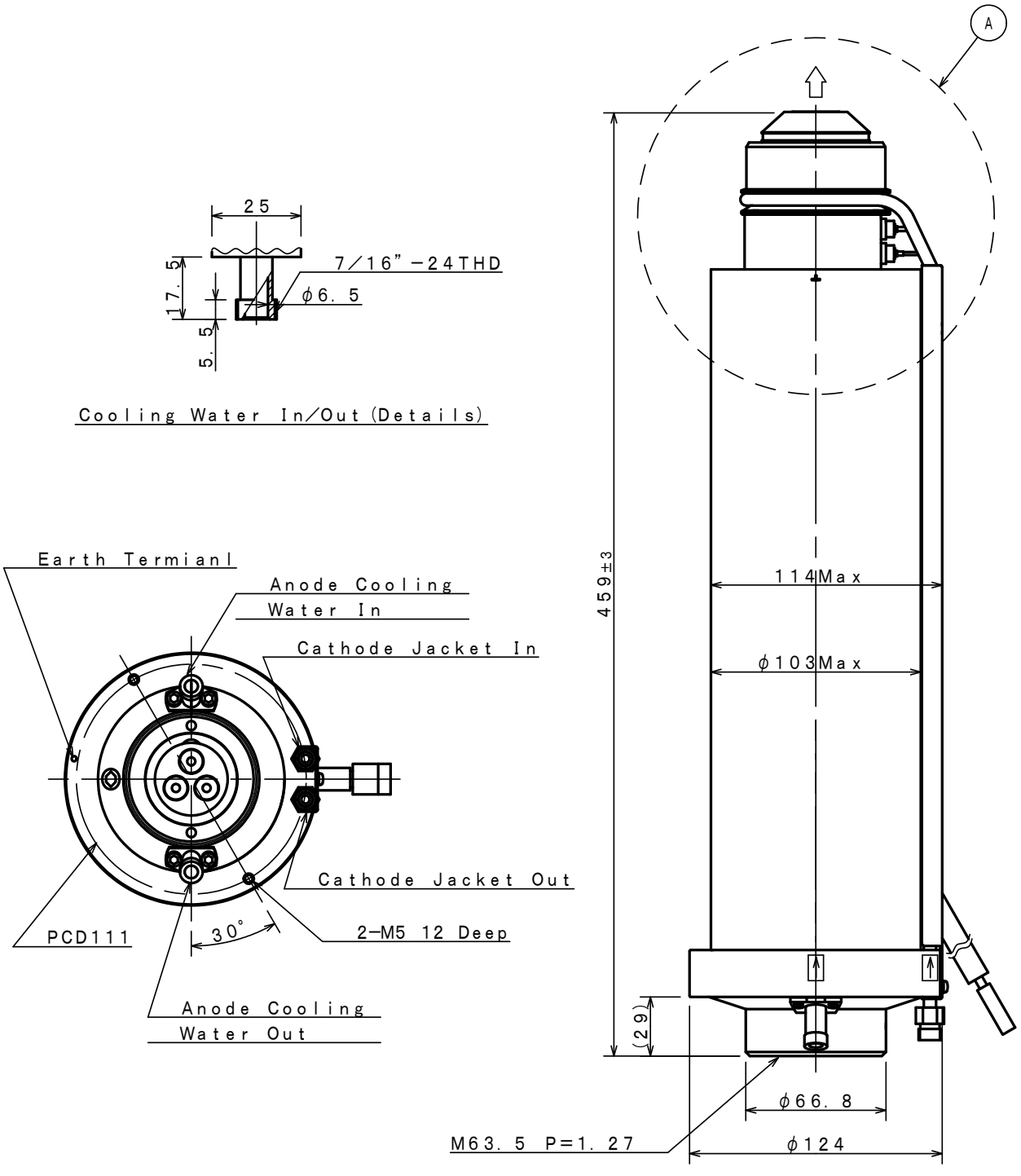
Constant Potential High-Voltage Generator



Note: This graph indicates typical characteristics.

Dimensional Outline (1)

Unit: mm



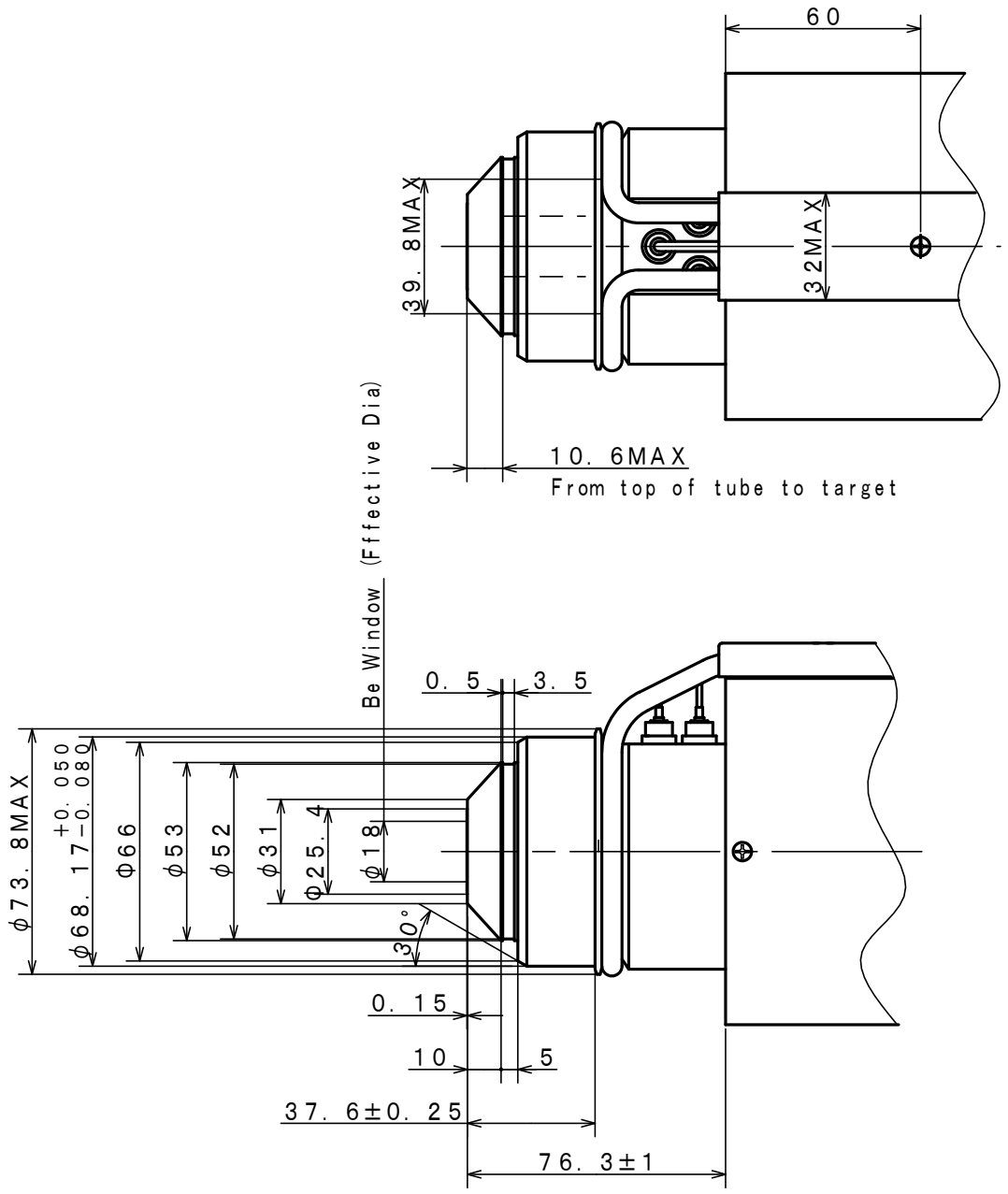
Note:

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

Dimensional Outline (2)

Unit: mm

Ⓐ Enlargement



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