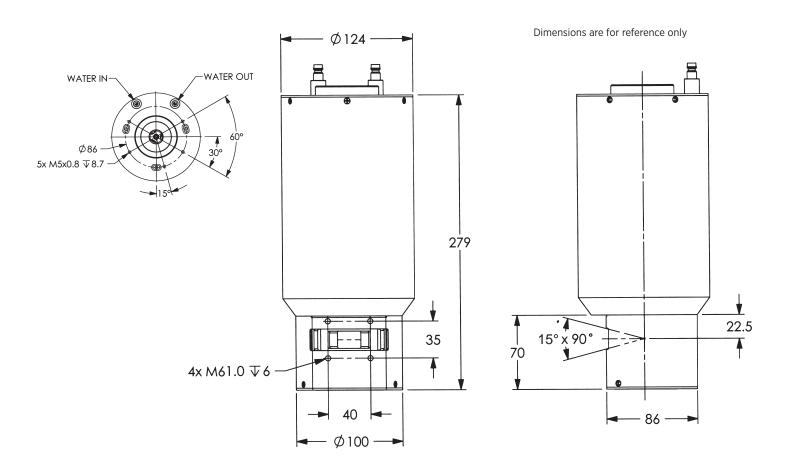


# Stationary Anode X-Ray Tube

## **X-Ray Tube Specifications**

Maximum Peak Voltage	Reference Axis Perpendicular to port face.
Focal Spot EN12543	Radiation Coverage
Large	Loading Factors for Leakage Radiation 225 kV, 13.0 mA
Target Angle	X-Ray Tube Assembly Permanent Filtra 2.0 mm Be
Maximum Continuous Rating Large 3000 W with 4 Litre/min cooling flow	High Voltage Cable
Temperature at fluid inlet (maximum)	Weight (approx.)
Cooling Medium Water	



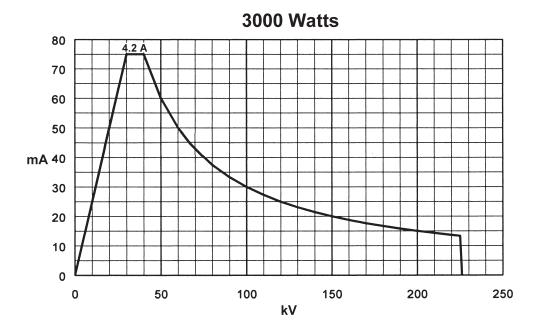
# **WARNING**

Beryllium windows transmit a very high level of long wavelength X-radiation, which can injure human tissue. Injury may occur from even very short exposures to the primary X-ray beam. Follow all precautions necessary to avoid radiation exposure to humans.

The radiation dose rate cannot be accurately measured with conventional radiation measurement instruments. Radiation intensity in each installation will vary, and calibration must include the effects of long wavelength X-radiation.

Fumes from beryllium metal (or its compounds) as well as dust can be hazardous if inhaled. During use, corrosion products may occur on the beryllium window, but these should not be scraped off, machined, or otherwise removed. Tube unit disposal should conform to federal, state, and local regulations governing beryllium.





# **Instructions for Installation and Operation**

### Instructions for Installation

## Connection of the x-ray tube

The careful adjustment of the pressure gap and the use of the correct amount of silicone grease are extremely important. First, clean the rubber cone carefully with a lint-free cloth. Take specific care that the contacts are absolutely free of old grease or oxide layers. Use only pure alcohol for cleaning, no other detergents. Cover the entire cone with a thin film of the supplied silicone grease, apply a rope of approximately 3 cm of grease and spread it gently, avoiding the contact tip. The grease layer must be kept free of air bubbles, dust or dirt.

### Cable terminal with mounting flange

Rotate the mounting flange until there is a gap of 3-4 mm between the mounting flange and the tube. Remove the cable plug and carefully grease using the supplied high voltage insulating compound. Introduce the greased terminal plug parallel to the axis of the high voltage receptacle socket and advance until it stops.

## Mounting flange

Attach the mounting flange to the tube housing using the flange fastening screws making sure not to rotate the mounting flange from its setup position.

## **Operation**

#### Genera

The control of the high voltage and the filament current as well as the design of the cooling unit is the responsibility of the equipment manufacturer.

## **High Voltage Connection**

One terminal type R24 high voltage cables supply high voltage and filament current.

Two different methods of mounting the high voltage cable are available.

#### **Cooling of the Anode**

It is the responsibility of the customer to ensure that the cooling medium flow meets the required cooling conditions. Insufficient cooling of the anode can lead to the destruction of the anode, therefore cooling must be switched on before the application of high voltage.

## **Control of Cooling Medium**

Flow, pressure, and temperature of the cooling medium at the inlet to the tube or the tube assembly must be appropriately monitored. High voltage must be terminated when the pressure or flow rate fall below the minimum level or when the temperature exceeds the maximum level. When the tube is switched off the coolant flow must continue for at least 2 minutes in order to protect the anode from destruction.



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Manufactured by Varex Imaging Corporation

Specifications subject to change without notice.