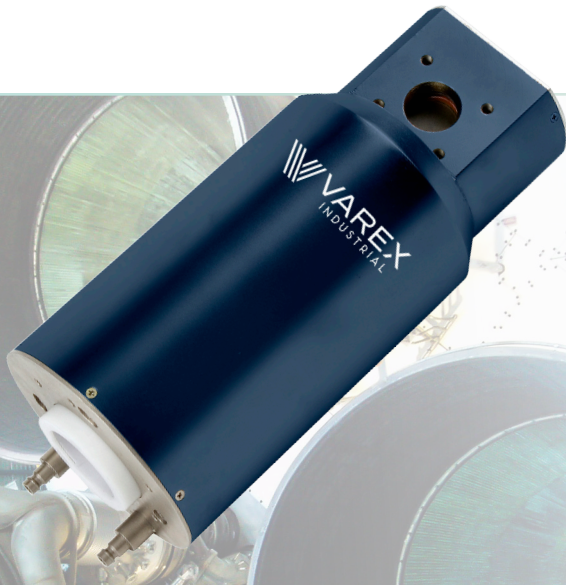


**HPE-225-53**

## Stationary Anode X-Ray Tube



Varex Imaging HPE-225-53 industrial X-ray tube for applications in non-destructive testing.

**OVERVIEW**

Varex Imaging's HPE-225-53 subsystem features our High Performance Emitter x-ray tube which incorporates a uniform focal spot that provides increased resolution for high-magnification systems by eliminating any unwanted radiation introduced by focal spot wings.

The combination of larger anode angle and Varex Imaging's High Performance Emitter technology means that resolution is maintained across the whole area of illumination, even on large area detectors..

**FEATURES AND BENEFITS**

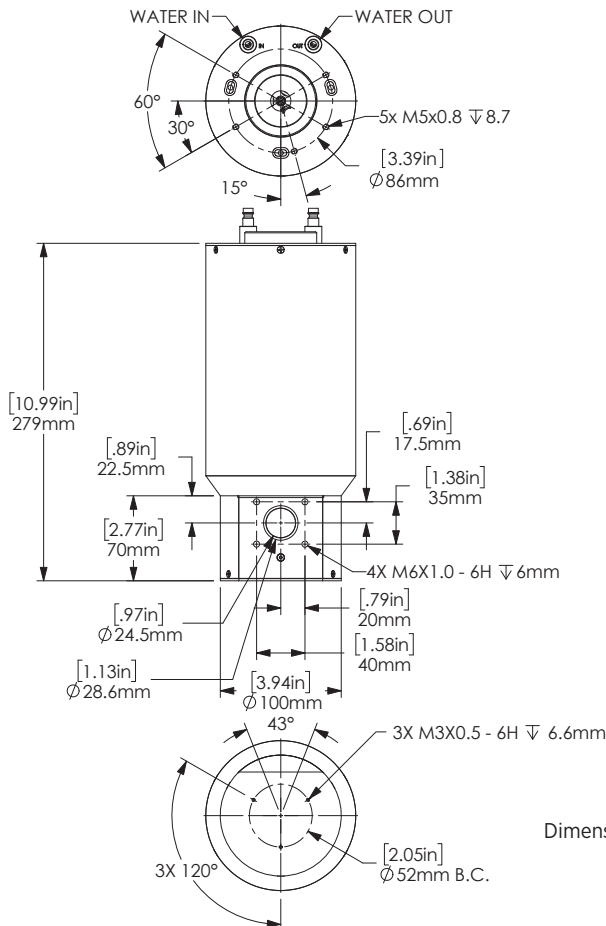
- 225kV at 1.20mA (270W max)
- 290um (max) Focal Spot (true EN12543 measurement)
- Unique emitter delivering Uniform X-Ray spot
- Improved dose uniformity
- Complete subsystem: tube, generator, controls and cooling

**APPLICATIONS**

- Non-destructive testing (NDT)
- 3D Cone Beam CT
- High Resolution Inspection
- Inline Inspection
- Large Area Imaging

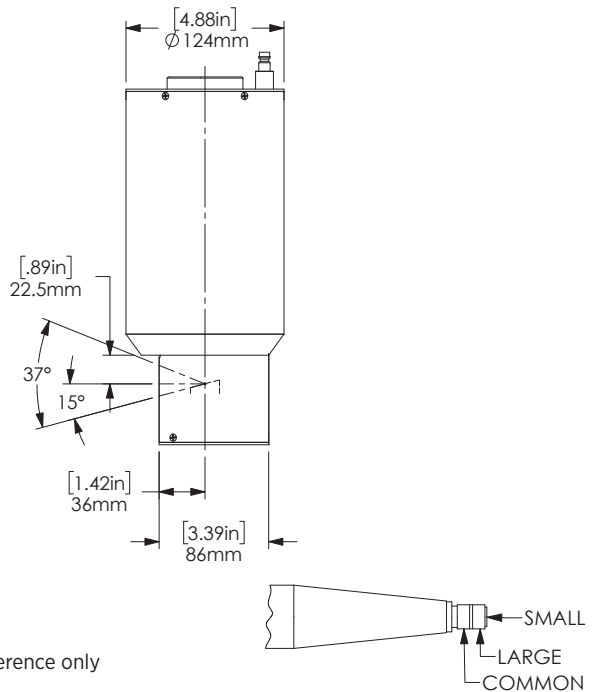
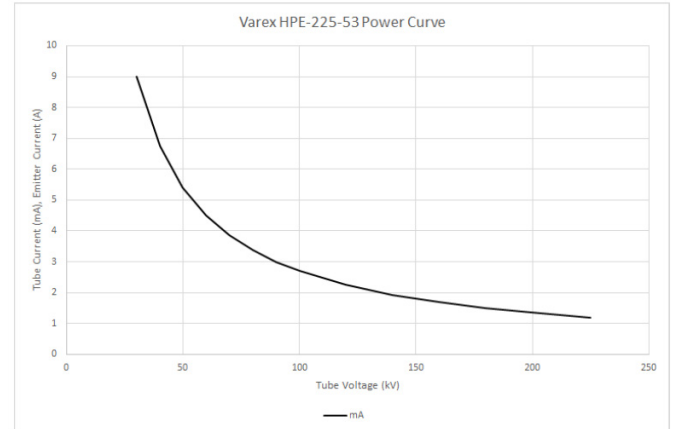
## X-Ray Tube Specifications

Maximum Tube Voltage ..... 225 kV  
 Minimum Tube Voltage ..... 30 kV  
 Focal Spot (EN 12543:2019) ..... D = .29 mm  
 Target Angle ..... 15°  
 Maximum Continuous Rating ..... 270 W with  
 4 Litre/min cooling flow  
 Temperature at fluid inlet (maximum) ..... 50°C  
 Cooling Medium .... 50/50 mix of Glycol and Water  
 Filament Current Max ..... 3.5 Amps  
 Filament Voltage typical ..... 3.3 Volts  
 Reference Axis ..... Perpendicular to port face  
 Nominal Radiation Coverage ..... 40° x 35°  
 Load Factors for Leakage Radiation . 225 kV, 1.77 mA  
 Maximum Radiation Leakage ..... 10 mSv/h @ 1 meter  
 X-Ray Tube Assembly Permanent Filtration . 0.8 mm Be  
 High Voltage Receptacle Type ..... R-24  
 Nominal Mass ..... 10.5 kg ( 23.1 lbs)



Dimensions are for reference only

Tube Voltage (kV)	Power (Watts)				
	100	150	200	270	
	30	3.33	5.00	6.67	9.00
	75	1.33	2.00	2.67	3.60
	100	1.00	1.50	2.00	2.70
	150	0.67	1.00	1.33	1.80
	175	0.57	0.86	1.14	1.54
	200	0.50	0.75	1.00	1.35
	225	0.44	0.67	0.89	1.20
Tube Current (mA)					



The data in this document is for reference only.  
Specifications subject to change without notice.

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