

Making the Invisible Visible

HPE-225-508 SUBSYSTEM

X-RAY TUBE AND GENERATOR SUBSYSTEM



225kV Subsystem for high resolution, dose efficient imaging applications

OVERVIEW

Varex Imaging's HPE-225-508 subsystem features a high resolution focal spot 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.

The subsystem is comprised of the HPE-225-508 X-ray tube, generator, high voltage cable, user interface control, and cooler. The combination of these market-leading components creates a sub-system designed to meet the users' needs¹ that is verified and tested as a sub-system to be reliable out-of-the box.

FEATURES AND BENEFITS

- 225kV Energy
- High resolution at high magnification
- Unique emitter delivering Uniform X-Ray spot
- Improved dose uniformity
- Complete subsystem: tube, generator, HV cable, controls and cooling

APPLICATIONS¹

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

¹ System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements.

HPE SUB-SYSTEM	
Anode Potential	150 - 225 kVp
Maximum Tube Current	.53 mA
Operating Temperature	+5°C to +40°C
Storage Temperature	-20°C to +70°C
Humidity	20% to 80%, non-condensing
kV Accuracy	±1%
mA Accuracy	±0.5%
HV Cable	5m (other lengths available upon request)
HPE-225-508 X-RAY TUBE	
Envelope	Ceramic
Target Materials	Tungsten (W)
Inherent Filtration	0.8mm Be
Target Angle	15° from the Central Ray
Focal Spot	80µm Nominal
Maximum Continuous Rating	80W
Filament Characteristics	2.7 Amps and 3.1 Volts maximum
Cooling	Dielectric oil
Weight	10.5kg
HV Receptacle Type	R24

1 Maximum tube current calculated at 150kV. Maximum tube power never to exceed 80 Watts.

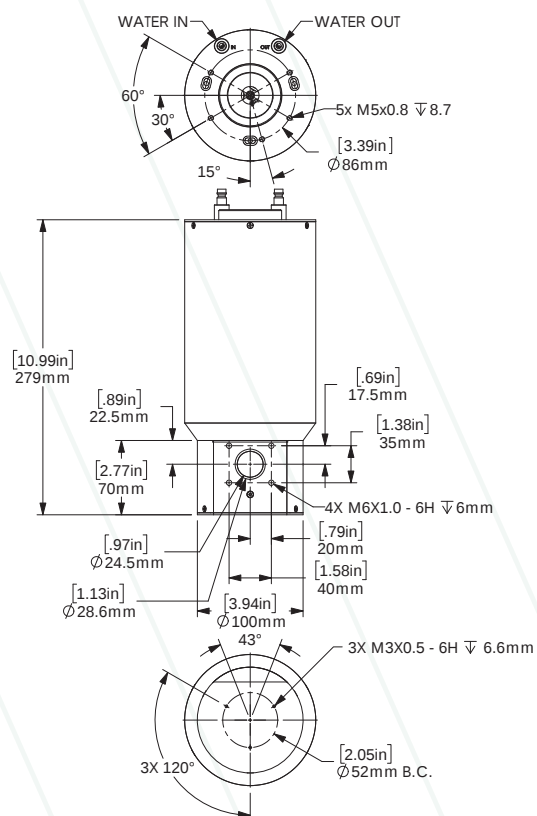
COOLER	
Performance	
Cooling capacity ¹	1,130 Watts
Minimum Flow Rate ²	1.8 lpm
Operation	
Coolant	Dielectric oil
Input Power	220 - 230 VAC 50/60 HZ 1.5 A
Noise	< 59 dB(A)
Physical	
Weight (w/o coolant)	38.5 kg
Maximum Hose Length	5m
Couplings	Quick Disconnects

1 Capacity rating is given at sea level, assumes 30 C ambient temp. at 50% RH.

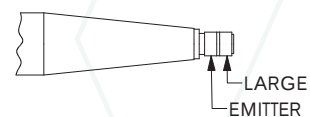
2 Flow rate is minimum guaranteed flow rate for maximum hose length and includes static and dynamic head pressures.

HVG227 GENERATOR	
Input Power	220V +/-10% @ 3A, 47-63Hz
Digital Interface	RS-232, Ethernet
Interface	Graphical User Interface via RS232, Ethernet
Weight	66kg
HV Receptacle Type	R28
Regulatory Approvals	
Low voltage Electrical Safety Requirements (IEC/EN61010-1, 2014/33/EU)	
Electromagnetic Compatibility Requirements (IEC61326-1, 2014/30/EU)	

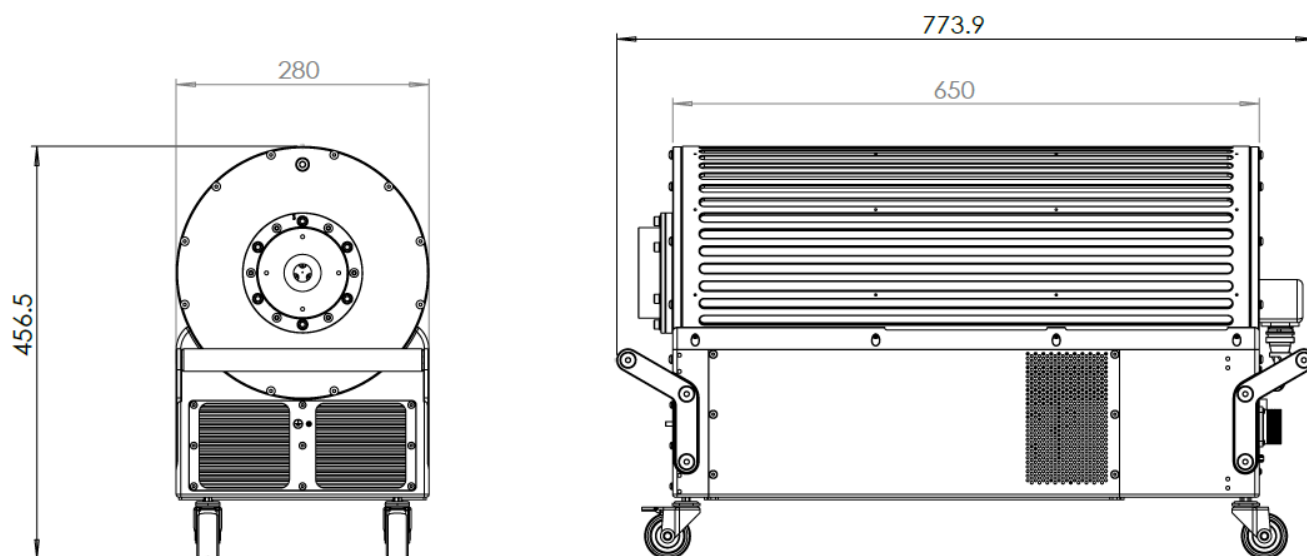
HPE-225



Note: Dimensions are for reference only.

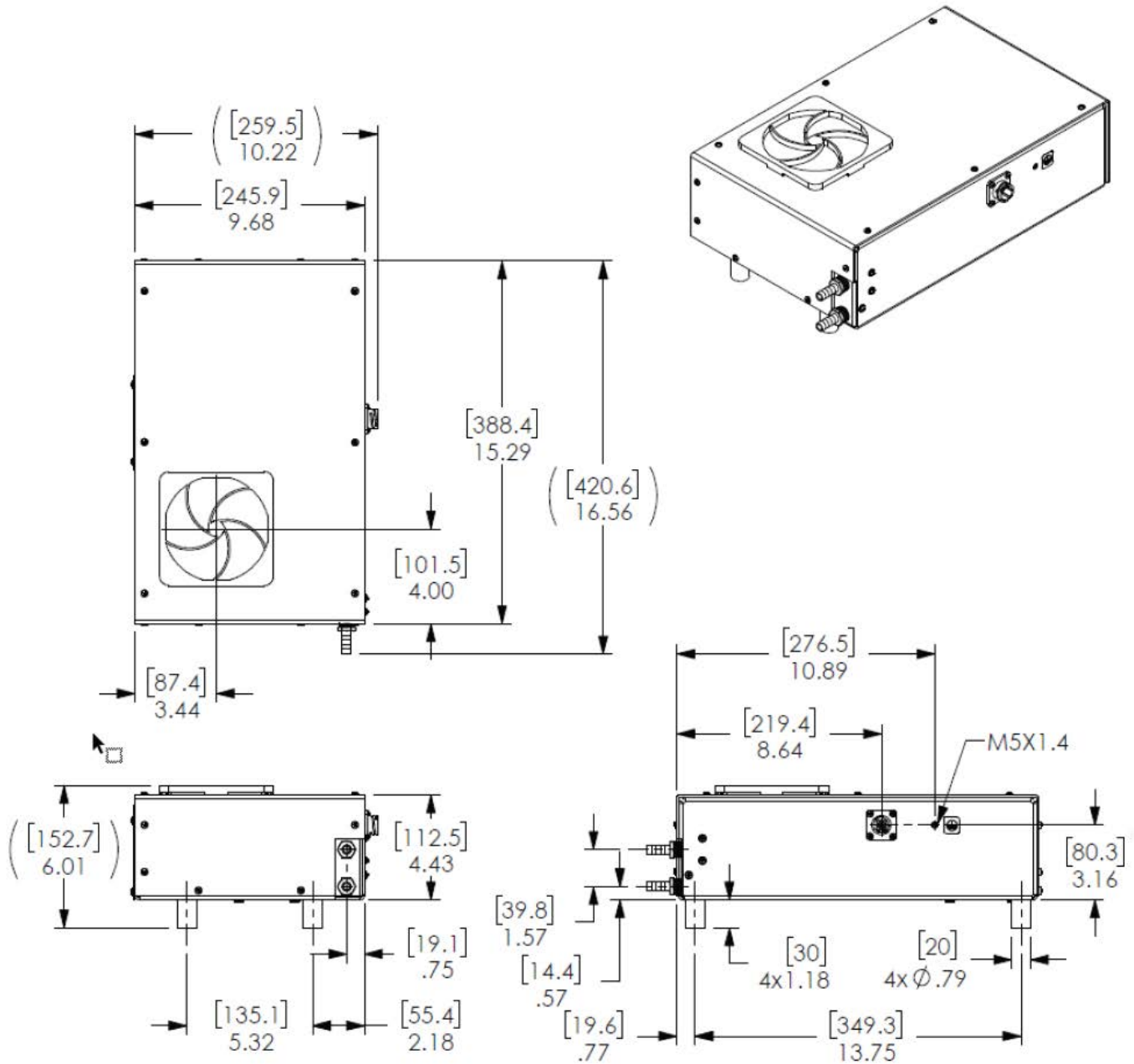


HVG GENERATOR



Note: Dimensions are in mm.

COOLER



Contents in this document are subject to change without notice.

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