RAXON200HPB

Paya Radiography Technology Co. X-ray Sources - RAXON Series



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RAXON200HPB



RAXON200HPB is a high-power industrial X-ray source for producing a beam of high intensity Xrays with small focal spot and high stability which ensures uniform beam intensities and dose rate throughout its fan/cone-shaped beam. Stable voltage and electrical power applied to X-ray tube, guarantees stable dose exposure and highquality images in digital radiography applications.

Applications

- Industrial Radiography
- X-Ray Imaging
- X-Ray Irradiation
- Non-Destructive Testing
- Food Inspection
- Security Inspection
- Densitometry and Thickness Measurement

Specifications

X-ray Characteristics:

Tube Type: Stationary anode, Glass tube, Tungsten target, Be filter

Focal Spot: 0.8mm (IEC 336)

Beam Filter: 3mm thick 6061 Al, ±0.01

Beam Geometry: Symmetrical fan up to 60° x 15°, cone up to 30°

Input Voltage:

220±10% Vac, 50/60Hz, 5A maximum

X-Ray Tube Voltage:

Nominal X-ray tube voltage is adjustable between 100kV to 200kV with 10kV step

X-Ray Tube Current:

0.2-3mA over specified tube voltage range

X-Ray Tube Power:

600W, continuous mode

Voltage Regulation:

Line: $\pm 0.1\%$ for a $\pm 10\%$ input line change of nominal input line voltage

Load: ±0.1% for a 0.2mA to 3mA load change

Voltage Accuracy:

Voltage measured across the X-Ray tube is within $\pm 2\%$ of the programmed value

Voltage Risetime:

Ramp time shall be <400ms from 10% to 90% of rated output

Voltage Overshoot:

Within 5% of rated voltage in <10ms

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Voltage Ripple:

Up to 2% pp of rated voltage

Current Regulation:

Line: ±0.1% for a ±10% input line change of nominal input line voltage Load: 0.5% @ 100-200kV, 0.2mA to 3mA **Current Accuracy:**

Current measured through the X-Ray tube is within $\pm 5\%$ of the programmed value

Current Risetime:

<400ms from 10% to 90% of rated output

Arc Intervention:

4 arcs in 10 seconds with a 200ms quench = Shutdown

Filament Configuration:

Internal high frequency AC filament drive with closed loop filament emission control

Digital Interface:

RS-232/USB/Ethernet Interface selectable port

Control Software:

A demo GUI for engineering evaluations will be provided for the RS-232/USB/Ethernet digital interface and Encoded Command Port for customized software

Emergency Stop:

A physical emergency stop is embedded for prompt shut down in case of emergency independent of software and microcontroller modules

Operating Temperature:

0°C to +40°C

Storage Temperature:

-40°C to +70°C

Humidity:

10% to 95% relative humidity, non-condensing

Tube Cooling Oil circulation and cooling

Motherboard Cooling

Natural convection augmented by customer provided 250cfm cooling fans for continuous operation

Input Power Line Connector:

Standard 3pin Line-Null-Earth connector

Dimensions:

1030mm X 575mm X 420mm

Weight (Approx.):

180 kg

Installation Orientation:

Can be mounted in any orientation.

X-Ray Leakage:

Not to be greater than 5μ S/hr at 5cm outside the external surface (EN61010-1)

Accessories:

RS-232/USB Connection cable Ethernet connection cable User Manual Software

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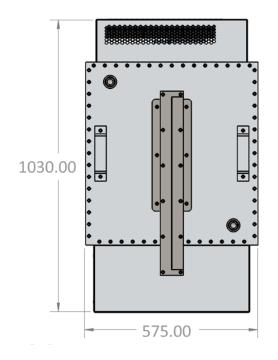
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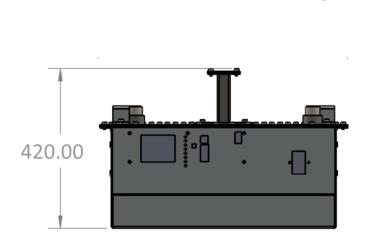
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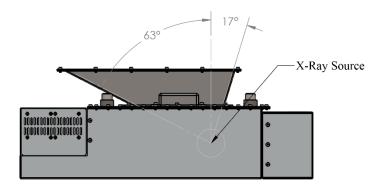
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Dimensions are in millimeters

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