

Peltec All-In-One universal-mobile constant potential X-Ray System



System includes:

- Comet CP X-Ray Tubes – select 160 to 450 KV
- Tube Clamp
- Laser Pointer
- Mobile Cart
- High Stability Generator
- Built-in Powered Tube Stand/Manipulator with 20" to 104" range
- Built-In Alarm module with audible pre-warning
- Plug and Play

			
Tube Position Controller	Remote Safety Operational Controller	External Cooler	Alarm

Peltec All-In-One Universal X-ray System is a complete, ready to use system.

Designed to be used in a radiation shielded vault.

Can be supplied with any directional Comet Constant Potential X-Ray Tube from 160 to 450 KV. with a max output of 4500 watts.

The integrated Power Supply/Generator is solid-state power supply and oil and gas free. It is highly stabilized with a consistent 25kHz output with low ripple/ noise rate for a stable beam for a high-quality image whether you use CR, DR, or film.

An electric powered tube positioner allows the tube height to be positioned from 20" to 104" from the ground.

The Tube Cradle allows the tube to be rotated 180 degrees.

The built-in Alarm System is fully code compliant.

The system has a comprehensive fault diagnostics and arc sensing to protect the x-ray tube from arcing.





Specifications:

Input Voltage:

180–264Vac, 47-63 hertz, power factor corrected input to ≥ 0.98

Input Current:

<40 amps

Output polarity:

Unipolar (160KV, 225KV)

Bipolar (320 KV, 450KV)

Output current:

0-30ma

Output Voltage: 160KV, 225KV, 320KV
450KV

Load: $\pm 0.05\%$ of rated output voltage for a full load change

Line: $\pm 0.05\%$ of rated output voltage over specified input range

Ripple(P-P) : < 0.1%

Accuracy: 0.25%

Stability: $\leq 0.1\%$ per 8 hours, after 1 hour warm up

Temperature Coefficient: 50ppm/°C

Emission Current:

Load: $\pm 0.05\%$ of rated output current for a change from 30% to 100% of rated

Output voltage:

Line: $\pm 0.05\%$ of rated current over specified input voltage range

Accuracy: 0.25%

Stability: 100ppm/°C

Filament:

Output: 0-6 amps at a compliance of 10Vdc, Maximum

Dual Focal Spot:

Small and large, selectable via interface signal

Configuration:

DC filament drive. Closed loop emission control regulates filament setting to provide desired x-ray tube emission current

Control Interface:

Hardware Controller:

Operating Temperature:

0°C to 50°C

Storage Temperature:

-40°C to +85°C

Humidity:

20% to 85% RH, non-condensing

Cooling Power supply:

Forced Air

Cooling tube supply:

Water for 160KV and 225KV

Oil for 320KV and 450KV

Cross Hair Laser Pointer