ARTEMIS 320

For researchers, by researchers
A cell and small animal irradiator that makes sense

ARTEMIS 320 FEATURES AND SPECIFICATIONS

Intuitive Control, Simplified Workflows

- Streamlined Interface: Designed for all users, regardless of experience level, ensuring quick setup and operation.
- Simplified Plan Management: Easily create, recall, and adapt treatment plans for consistent and accurate results.
- Minimal Training Required: Enabling more time for research and less on system navigation.

The Ultimate Hybrid Research Advantage

- Record and Verify: Expedited plan set up for templated treatments and fractionation. Effortlessly export data to your digital laboratory systems.
- Versatile Platform Design: Customizable treatment options for broad fields or multiple targeted regions, all within a single plan.
- User Customization: Recognizes and accepts customized beds, collimators & filters.

OncoMatrix™: Intelligent Predictive Maintenance Redefines Service

- Proactive Performance Monitoring: AI-driven insights for predicting and preventing potential system issues.
- Minimize Downtime: Quick, remote resolutions keep your research on track without unnecessary delays.

Simplified User Workflow

- Easy-to-use touchscreen interface.
- Step-by-step prompted workflow.
- Exportable to electronic notebook.

User Customized Capability

- Accepts and recognizes user customized beds/filters/collimators.
- System recognized interchangeable treatment beds with customizable options.

Additional Features

- Secondary optical/IR camera for chamber monitoring.
- Flexible IO port with maze for cabling and integrated anesthesia port.
- Collapsable preparation table.
- System performance monitoring for predictive maintenance.

ARTEMIS 320

Dosimetric Output:

18 Gy/min (20 cm SSD), 3 Gy/min (50 cm SSD): at 320 kV, 12.5 mA, HVL ~1 mm Cu
6 Gy/min (20 cm SSD), 1 Gy/min (50 cm SSD): at 320 kV, 12.5 mA, HVL ~4 mm Cu
SSD Range: 20-80 cm

Technical Specifications:

Maximum Voltage: 320 kV
Maximum Power: 4200 W
Focal Spot: 8 mm²
Inherent Filtration: 3.0 mm Beryllium

Shielding (Estimation):

Exposure Rate: 5 microSv/h at regulatory distance
*Complies with 21 CFR 1020.40 Guidelines

Dimensions:

Exterior: Approximately 197 cm (H) x 100.6 cm (W) x 88.9 cm (D)
Irradiation Chamber: Approximately 64-100 cm (H) x 60-70 cm (W) x 65-86 cm (D)

Weight: Approximately 4800 lbs. (2050 kg)
Power Requirements: 4.2 kW continuous
Voltage Range: 15-320 kV
Cooling System: Oil-to-Air

About Us: **Empyrean Medical Systems is dedicated to advancing both scientific research and clinical outcomes through innovative solutions. Committed to quality and customer satisfaction, we strive to empower researchers with reliable tools for their cell and small animal research needs.**

Customizable features are currently under development for the Artemis 320 and Artemis 500.
For details on purchasing an Artemis system please contact us at:

Email: info@empyreanmed.com
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EMPYREAN MEDICAL SYSTEMS