

Patent Pending

¹⁸FDG SERVANT

Fully Automatic ¹⁸FDG Patient
Dose Preparation System

Fully Automatic Aseptic ¹⁸FDG Dispensing Unit
with Integrated Dose Calibrator and Weighting Cell



Safer, Faster, Aseptic and Fully Traceable
¹⁸FDG Patient Dose Preparation with USP 797 Compatibility



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General Specifications*

- Full automated initial calibration of input bulk 18FDG vial via an integrated dose calibrator and weighting cell
- Dose Dispensing
 - 1% volumetric dose drawing accuracy
 - 3% dose activity accuracy
 - Dilution with NaCl is possible
- Syringes and Vials are loaded into a dedicated drawer designed as a double-door airlock unit
- Output syringes (patient dose) are introduced with tungsten shielding inside a dedicated drawer designed as a double-door airlock unit
- Automatic label/barcode printing upon the removal of a patient-dose syringe
- Standard 2cc syringes as consumables
- No peristaltic pump, no tubing to change regularly
- Vials and Syringes are handled via cleanroom compatible robotic unit
- Glove ports and lead glass screen for observation and manual operation if required
- AISI 316L stainless steel internal cabin structures
- AISI 304 stainless steel external finishing
- Lead and Tungsten shielding layers in order to assure NCRP-49 and ICRP-103 dose equivalent values
- USP 797 compatible
 - Full volume coverage Unidirectional Air Flow ventilation system inside the main cabin
 - ISO 14644 Cleanroom Class 5 air quality inside the main cabin
 - Negative differential pressure CACI (Compounding Aseptic Containment Isolator) structure
 - Internal UV antibacterial lamp
- Touch Panel screen as HMI
- HMI software
 - Fully customizable batch processes (Dose Dispensing, Dilution, Activity Measurement)
 - Fully customizable dosing parameters
 - Software assistance for dose volume and activity calculation according to patient data, and available bulk
 - Full traceability over the processing and dispensing history, system performance, ...etc
 - Extensive report generating capabilities

*Mol-Image has the right to change the above specifications without notice.