

RIID Radiopharmaceutical Intelligent Dispenser

● Consist of

- Dose Calibrator : CRC-PC smart Chamber
- Control PC with Touch Panel : 10.4", 1200x800, LCD touch screen
- Peristaltic pump : 4 roller / ID 1.6mm tube 165ul/rev
- Stepping Motor : Position Accuracy ± 0.9 degree
- Servo Motor : Serial Servo Motor / Min. Control 0.029degree
- Bubble sensor : GsAs IRED
- Label printer : USB / 203dpi Thermal printer
- Tungsten vial shield : WNiFe90% 30mm thick tungsten shield
- Tungsten syringe shield : WNiFe90% 16mm thick tungsten shield
- Syringe connecting kit : Male Luer Injection Site, Polyisoprene Rubber
- Dispensing kit : Tubes, Needles, 4gang 3way valve, venting filters
- Extra disposable components : 20cc Temporary vial, 20cc chamber vial
150cc waste bottle, 500cc Saline



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Radiopharmaceutical Automatic Dispenser

This dispenser shall be able to be used in cyclotron, nuclear medicine, PET centers and pharmaceutical firms usefully due to its characteristics of minimizing radiation worker's radioactive contamination, radiation exposure through dispensing automatically the required volume of radioactive isotopes or radiopharmaceuticals in liquid state.

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Feature

RIID is an automatic dispensing system of radioactive isotopes in liquid state or radiopharmaceuticals, particularly F-18 or Tc-99m and equipped with user friendly software as well as accurate dispensing equipment which shall make possible fast and safe dispensing the required activity.

simplified system offers low failure rate of machine and maintenance work can be made by even nonexperts due to the modulation of every active part.

Configuration

1. Control part of the equipment

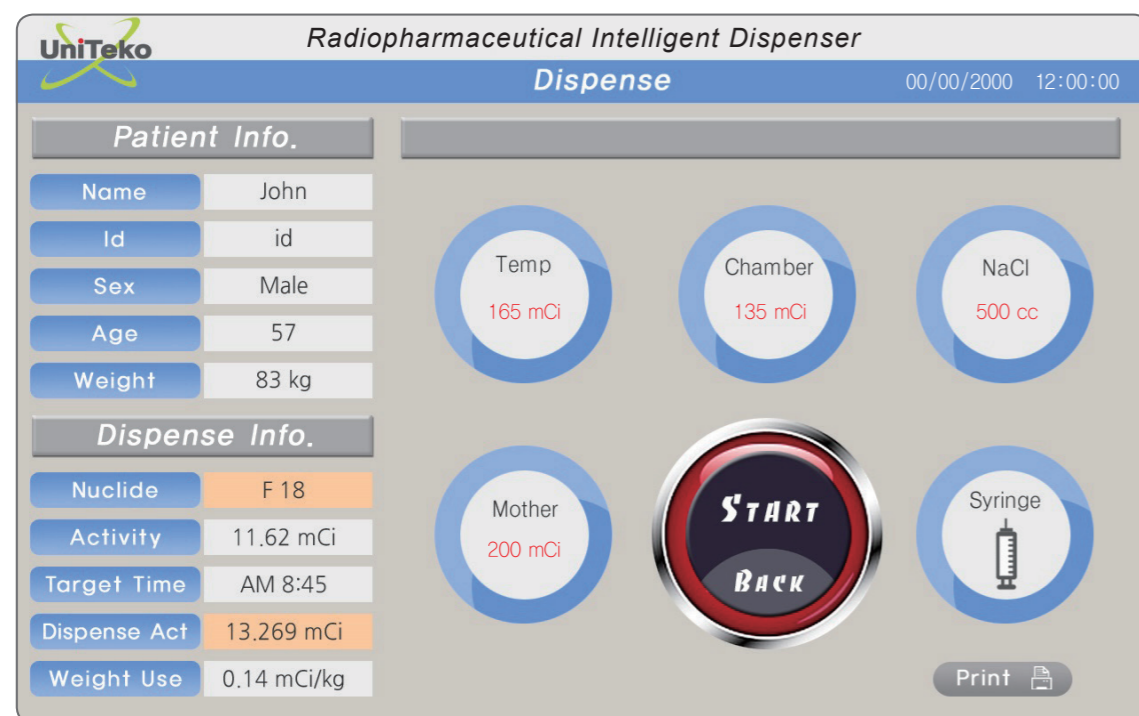
- The controller connected with two peristaltic pumps and 3way regulating sub-motors transmits the materials in liquid state in the tube correctly and quickly to the syringe.

2. Measuring part of the equipment

- Accuracy and reliability is increased by using of CRC-PC smart chamber of Capintec.
- Integrated software provides very accurate calculation through real time difference.

3. Shielding part

- Inserting part of Bulk vial, syringe insertion, Measuring part of radioactivity. Transmitting part are completely shielded to minimize the radiation exposure.



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Technical Specification

- Size** 770 x 665 x 1020mm (monitor excluded)
- Weight** approx. 550kg
- RI Detecting Unit** CRC-PC smart Dose Calibrator
- Maximum Dose Activity** 500mCi
- Minimum Dose Dispensing** 5mCi per syringe
- Surface Dose Rate** < 10uSv/h @ 10cm dist. Front Panel
- Syringe** 5cc Disposable Syringe
- Remained Air volume** < 0.05 cc
- Dispensing time** < 50 sec with 3cc filled
- Dispensing Error rate** ± 3% (with dispensing 500mCi/10cc FDG vial @24°C, 50% rel. humidity)
- Display** 10.4" High visible LCD Touch screen
- Power supply** 220 VAC 60Hz
- Dispensing kit replacement cycle** 1 kit per day (includes 10cc bulk vial, 20cc temporary vial, 150cc waste bottle venting needle) (Needle Injection site : 1 kit per syringe)