

Dose Calibrator: CRC-55tR



The CRC-55tR Dose Calibrator provides the speed and accuracy you need to measure and prepare doses with the reliability and performance you expect.

The CRC-55tR calibrator's design includes a menu driven, color touch screen interface that is easy to learn and use.

The ion chamber is a proven time-tested, high pressure chamber capable of measuring a dose as high as 6 Ci (250 GBq) with high accuracy.

Additional features such as USB/PC communications, printer capabilities, USB flash drive software upgrades and plug-and-play chamber make the CRC-55tR calibrator integral in improving your department's efficiency.

The innovative functional design of the CRC-55tR unit allows for a large, easy-to-read display that indicates Nuclide Name, Number, Activity, Unit of Measure and Calibration Number.

Entering data through the custom touch screen interface is fast and includes 28 programmable keys. The user can choose from 80 nuclides by simply selecting the nuclide symbol on the touch screen interface.

Other capabilities include storage of reference sources in memory that automatically decay correct for today's time and date. Automated quality control tests and selfdiagnostics are built-in with automatic zero and background subtraction making the CRC-55tR calibrator exceptionally easy to use.

An optional printer enables the CRC-55tR unit to print full size records and patient tickets with peel off labels for vial and syringe identification.

Specifications

Physical:

Console Dimensions

- Height: 42 cm (9.5 in.)
- Width: 23 cm (9.0 in.)
- Depth: 27 cm (10.5 in.)
- Weight: 3.4 kg (7.5 lb)

Chamber Dimensions

- Height: 43.8 cm (17.25 in.)
- Diameter: 17.2 cm (6.76 in.)
- Weight: 13.6 kg (30 lb)
- Well Diameter: 7.0 cm (2.75 in.)
- Well Depth: 26.7 cm (10.5 in.)
- Cable Length: 3.7 m (12 ft)

Cables

- Power: 1.8 m (6 ft)
- Printer: 1.8 m (6 ft)

Ionization Chamber

- Type: Thin wall, deep well, high pressure
- Fill Gas: 12 atm Ultra-Pure Argon

Measurement Range

- Type: Auto Ranging
- Activity: 250 GBq (6 Ci), max.
- Resolution: .001 MBq (.01 μ Ci), max.

Display Screen

- Type: 8 in. VGA LCD color touch screen display
- Format: Direct reading in Bq or Ci
- Bq/Ci Reading: User selectable or fixed
- Values Displayed: Nuclide name (Atomic symbol, Mass number), calibration number

Electrometer

- Accuracy: Better than $\pm 2\%$
- Linearity: Within $\pm 2\%$
- Response Time: Within 2 sec, 4 to 16 sec for very low activity samples

Repeatability of Measurement

- Within $\pm 1\%$ within 24 hours during which time the calibrator is continuously in operation

Tests

- Diagnostics: Full test of program, system memories
- Daily: Auto Zero, Auto Background Adjust, Data Check, Accuracy and Constancy, Voltage Test
- Enhanced: Linearity, Geometry, Strip QC

Nuclear Data

- Nuclide Keys: 28 programmable keys
- System Memory: Over 80 nuclides (cal number and half-life)

Standard Source Data

- System Memory: Co-57, Co-60, Ba-133, Cs-137 standard sources

Molybdenum-99 Assay

- Methods: CAP-MAC canisters
- Measured Values: Mo-99 elution, Tc-99m, Tc-99m/Mo-99 Ratio

PC Port

- Interface: RS-232 and USB
- Compatibility: Standard Nuclear Medicine Management Systems

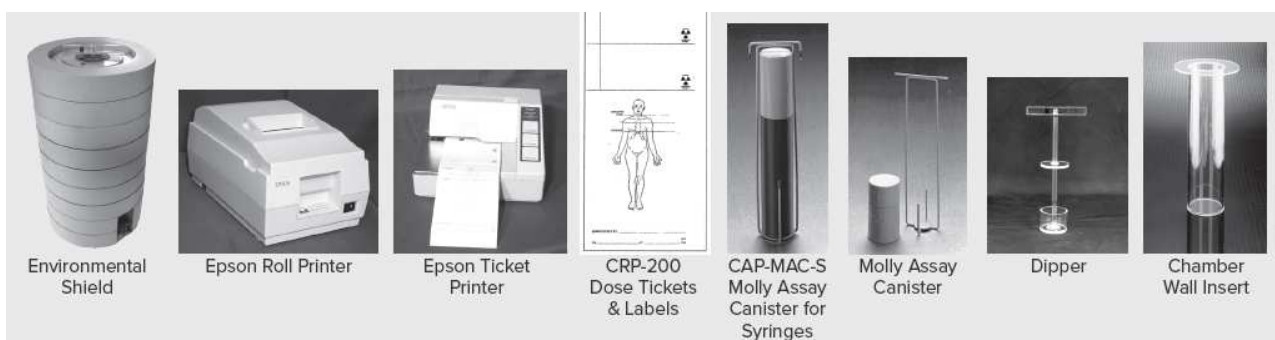
Printer (Optional)

- Interface: RS-232 and USB
- Type: Epson Roll, Epson Slip or Okidata full size dot matrix
- Printing Options: Full size test reports. Measured results on tickets

Power Requirements

- 100-240 V ac (50/60 Hz) 90 MA

Optional components



Features

- Chamber energy range: 15 keV to 3 MeV
- Full alpha numeric 8 inches touchpad
- On screen display of Nuclide Name, Number, Activity, Unit of Measure and Calibration Number
- Over 80 nucleides with half-lives in memory
- Built-in dose calibration, quality control and self diagnostics
- Automated QC including constancy and linearity programs
- Compatible with Nuclear Medicine Management Systems via USB
- USB/PC communications
- Software upgrade via USB or flash drive
- Optional printer for full size NRC records and patient labels for syringes and vials



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