CRC®-55tPET Dose Calibrator

The new Capintec CRC®-55tPET combines the ultimate features in the industry's finest package with the quality and versatility that you've come to expect from Capintec. Using the menu-driven, color touch screen interface, the CRC®-55tPET's reduced chamber pressure and increased bias voltage increases the maximum activity range for high energy PET isotopes. The CRC®-55tPET's performance and reliability has been designed to meet the demanding needs for speed and accuracy in the preparation and measurement of doses in any laboratory environment.

The enhanced 55t software supports dual chamber technology with an innovative functional design that includes a large, easy-to-read display that specifies 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 select from 80 nuclides by simply selecting the nuclide symbol on the touch screen interface.

Additional capabilities include storage of reference sources in memory that automatically decay corrects for today's time and date. Automated quality control tests and self-diagnostics are built-in with automatic zero and background subtraction making the CRC®-55tPET exceptionally easy to use. An optional printer enables the CRC®-55tPET to print full size records and patient tickets with peel off labels for vial and syringe identification.

Se habla español? New to the 55t family is bilingual English/Spanish software!

Features including USB/PC Communications, printer capabilities, USB flash drive software for upgrades and plug and play chamber make the CRC®-55tPET an integral tool in improving your department's efficiency.

Count on Capintec for excellence in energy measurement and unsurpassed customer service, training and support.

- 8" color VGA touch screen display
- USB/PC Communications
- Software upgrade via USB or Flash Drive
- USB printer capability
- Single or optional second plug and play chamber with mixed chamber capability
- Chamber can be placed 100 feet from the readout unit
- Bilingual (English/Spanish) Software
- On-screen display of Nuclide, Activity, Unit of Measure and Calibration Number
- Large character, high visibility display
- Full alpha numeric touchpad
- Built-in dose calibration, quality control and self diagnostics
- Has a maximum activity up to 20 Ci of F-18
- Compatible with Nuclear Medicine Management Systems via USB
- Optional printer for regulatory records and patient labels for syringes and vials
- Over 80 nuclide symbols and half-lives in memory
- Automated Geometry and Linearity Testing
- Supports exchange of chambers with the CRC®-55tR dose calibrator

Console Dimensions

- Height: 24cm (9.5in)
- Width: 23cm (9.0in)
- Depth: 27cm (10.5in)
- Weight: 3.4kg (7.5lb)

Chamber Dimensions

- Height: 43.8cm (17.25in)
- Diameter: 17.2cm(6.76in)
- Weight: 13.6kg (30lb)
- Well Diameter: 6.1cm (2.4in)
- Well Depth: 25.4cm (10.0in)
- Cable Length[1]: 3.7m (12ft)

Cables

- Power[1]: 1.8m (6ft)
- Printer: 1.8m (6ft)

[1]: Longer cables are available. Consult factory.

CRC®-55tPET Dose Calibrator: Item #5130-3235
CRC®-55tPET: Multiple Chamber Option: Item #5130-2238

CAPINTEC, INC. 7 Vreeland Road, Florham Park, NJ 07932 · PH: 201.825.9500 or 800.631.3826 · WEB: www.capintec.com

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CRC®-55tPET Dose Calibrator

Ionization Chamber
- Type: Thin wall, deep well
- Fill Gas: 5 atm Ultra Pure Argon

Measurement Range
- Type: Auto Ranging
- Activity: 20 Curies of F-18
- Resolution: 0.1 µCi (0.01 MBq), max.

Display Screen
- Type: 8" VGA LCD Color Touch Screen Display
- Format: Direct reading in Ci or Bq
- Bq/Ci Reading: User selectable or fixed
- Values Displayed: Nuclide name (Atomic symbol, Mass number), calibration number

Electrometer
- Accuracy: Better than ± 2%
- Linearity: Within ± 2%
- Response Time: Within 2 sec., 4 to 16 sec. for very low activity samples
- Bias Voltage: +500V

Repeatability of Measurement
- Repeatability: Within ± 1% within 24 hours during which time the calibrator is continuously on all the time

Overall Accuracy
- Accuracy Determined By:
  1) Calibration for the specific nuclide and the sample configuration,
  2) Accuracies of standard sources used for calibration of electrometer

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

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

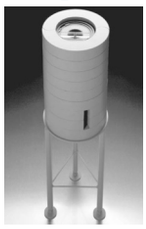
Standard Source Data
- System Memory: Co-57, Co-60, Ba-133, Cs-137, Na-22 Standard Sources

PC Port
- Interface: RS-232 & 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 VAC (50/60 Hz) 100mA

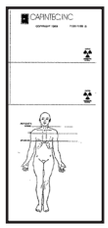
Optional Components



®CRC-PS Positron Shield:
Item #7300-2903

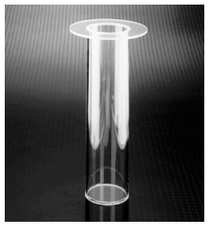
Epson Roll Printer:
Item #5430-0058

Epson Ticket Printer:
Item #5430-0100

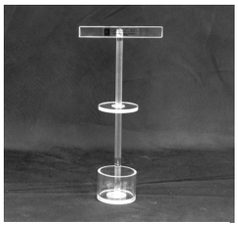


CRP-200 Dose Tickets & Labels:
Item #7120-1199

Environmental Shield:
Item #7300-2450



Liner:
Item #7300-2004



Dipper:
Item #7300-2005

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