



MIRION
TECHNOLOGIES

DOSE CALIBRATOR

CRC[®]-77tHR

Dose Calibrator

*High Activity Measurements For
Isotope Production Environments*



FEATURES

- Maximum Activity for 77tHR is 400 Curies (15 TBq)
- Radiation resistant design
- Custom length liners and dippers available to match your hot cell dimensional requirements
- 8 in. color VGA touch screen display
- On screen display of Nuclide Name, Number, Activity, Unit of Measure and Calibration Number
- Large character, high visibility display
- Over 80 nuclides with half-lives in memory
- Full alpha numeric touchpad
- Built-in dose calibration, quality control and self-diagnostics
- Automated QC including constancy and linearity programs
- Compatible with Nuclear Medicine Management Systems via USB
- Optional printer for full size hard copy records
- USB/PC communications
- Software upgrade via USB or flash drive
- USB printer capability
- Automated Geometry and Linearity Testing

DESCRIPTION

The CRC-77tHR calibrator's performance and reliability have been designed to meet the unique and demanding needs of the isotope manufacturing and radiopharmaceutical production environments.

The software is designed for rapid repeatable measurement functions often required in production, and includes a fully automated Quality Assurance Program. Hardware is carefully designed to minimize the impact of high radiation fields upon electronics. A touch screen user interface provides a user friendly and efficient workflow.

Some features include a high activity range of over 400 Curies for Tc-99m, USB/PC communications, and pre-defined communication protocols for fast and easy system interface.

We offer a full line of related Capintec™ products to safely use the CRC-77tHR calibrator within your hot cell or hood environment.

RELATED PRODUCTS



Positron Shield



Custom Length Dipper



Custom Length Liner



Positron Shield Stand



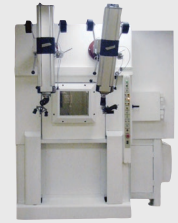
CAP-Lift



CAP-RAD Smart Area Monitor



3 Part Sliding Door Hot Cell



Vertical Hot Cell

FEATURES

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: 6.1 cm (2.4 in.)
- Well Depth: 25.3 cm (10.0 in.)

Cables

- Power: 1.8 m (6 ft)
- Cable Length: 3.7 m (12 ft)

Ionization Chamber

- Type: Thin wall, deep well, low pressure
- Fill Gas: 1 atm Ultra-Pure Argon

Measurement Range

- Type: Auto Ranging
- Activity: 15 TBq (400 Ci), max (Tc-99m), 4.8 TBq (130 Ci), max F-18
- Resolution: 0.01 MBq (10 µCi), max.
- Energy: 15 keV to 3 MeV
- Not recommended for activity measurements < 100 µCi

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 ± 2%
- Linearity: Within ± 2%
- Response Time: Within 3 to 4 sec, 5 to 25 sec for low activity samples

Repeatability of Measurement

- Within ± 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

Nuclear Data

- Nuclide Keys: 28 programmable keys

Standard Source Data

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

PC Port

- Interface: USB
- Compatibility: Standard Nuclear Medicine Management Systems

Printer (Optional)

- Interface: USB
- Type: HP Inkjet
- Printing Options: Full size test reports

Power Requirements

- 100-240 V ac (50/60 Hz) 180 mA

ORDERING INFORMATION

- CRC-77t Dose Calibrator: Item #5130-30261
- Positron Shield: Item #7300-2903
- Custom Length Dipper: Item #5120-2258
- Custom Length Liner: Item #5120-2257
- Positron Shield Stand: Item #5126-2001
- CAP-Lift: Item #5130-30251
- CAP-RAD Smart Area Monitor: Item #5250-0022
- 3 Part Sliding Door Hot Cell: Call for information
- Vertical Hot Cell: Call for information

