

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 alphanumeric 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.

Capintec | CRC-77tHR Dose Calibrator

Related Products



Specifications

Physical:

· Console Dimensions:

Height: 42 cm (9.5 in.)
Width: 23 cm (9.0 in.)
Length: 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

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 μ Ci

· 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 seconds, 5 to 25 seconds

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



Capintec | CRC-55tPET Dose Calibrator

Related Products



· 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) 100 MA

Ordering Information

5130-30261 CRC-77tHR Dose Calibrator

7300-2903 Positron Shield

5120-2258 Custom Length Dipper 5120-2257 Custom Length Liner 5126-2001 Positron Shield Stand

5130-30251 CAP-Lift

078-450 CAP-RAD Smart Area Monitor 3 Part Sliding Door Hot Cell: Call for information

Vertical Hot Cell: Call for information





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