MIRION
TECHNOLOGIES

WELL COUNTERS

CAPRAC-t™ Wipe Test/Well Counter

No other well counter offers the features, capabilities and easy-to-learn user interface

FEATURES

- 8 in. SVGA touch screen color display
- 256 channel MCA with detailed spectrum for identification analysis
- NaI drilled-well crystal detector
- Automatic Energy Calibration, Constancy Check, and Background Subtraction
- Automated well QC including chi-square and MDA
- Manual and Automatic ROI
- Sets user definable protocols for wipes
- Print outs of all data for permanent records with the optional printer
- Direct readouts with spectrum display are in cpm, dpm, Curies and Bequerels
- Meets all state and NRC wipe test requirements
- USB and RS-232 communication ports for PC and printer
- Compatible with nuclear medicine information management systems via USB
- Built-in database for test and wipe results as well as QC
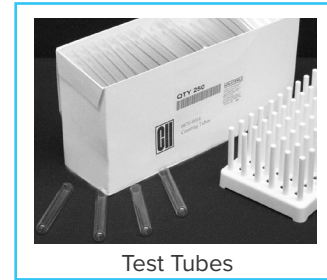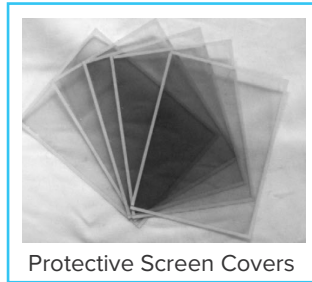
DESCRIPTION

No need to worry about meeting the regulations in 10 CFR Part 35.315 (200 dpm requirements for unrestricted areas and iodine contamination). The Capintec™ CAPRAC-t Wipe-Test Counter handles all of them.

Measure for measure, no other well counter offers the speed, accuracy and complete range of built-in features provided by the compact CAPRAC-t counter. It performs a wipe test in just six seconds (for 1 nCi) and detects extremely low levels of activity with the accuracy only a NaI drilled-well detector can provide.

The CAPRAC-t system can also serve as a single-well gamma counter in departments that do not need multi-sample changers. User-defined protocols, trigger levels, and counting times are a "snap". A 256-channel pulse-height analyzer permits built-in gamma spectroscopy. Definable conversion factors for specific radionuclides allow the CAPRAC-t counter to calculate results in cpm, dpm, nCi, cps, dps, or kBq. The CAPRAC-t unit also displays full spectrum.

The CAPRAC-t counter is engineered and built for years of consistent, reliable performance and is Curie or Becquerel selectable. The unit has automatic background subtraction and self-diagnosis programs for systems testing with optimized signal-to-noise ratio. It includes a lead outer shield (1.3 cm thick) with optional auxiliary shield available.

CAPINTEC, INC.
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CAPRAC-t | WIPE TEST/WELL COUNTER

Cs-137 Rod Source
Eu-152 Rod Source

Protective Screen Covers

Epson Roll Printer

Well Auxiliary Shield

Auxiliary Shield

Test Tubes

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)

Well Counter Dimensions
- Height: 23.8 cm (9.38 in.)
- Diameter: 15.2 cm (6 in.)
- Weight: 6.9 kg (15.2 lb)
- Well Diameter: 1.7 cm (.67 in.)
- Well Depth: 3.8 cm (1.5 in.)
- Cable Length: 2.7 m (9 ft)

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

*Longer cables are available. Consult factory.

Performance
- Type: Drilled-well crystal, NaI(Tl) scintillator
- Crystal Dimensions: 3.8 x 4.4 cm (1.5 x 1.75 in.)
- Shielding: 1.3 cm (0.5 in.) lead
- Shielding: 2.75 m (9 ft) interconnecting cable
- Channels: 256
- Counting Rate: 100,000 cps, max

Well Detector
- Type: 1 1/2 in. Sodium Iodide (NaI) drilled-well crystal detector
- 256 Channel MCA, manual and automatic ROI
- Trigger Levels: User-definable
- Automated Calibration and Background Subtract
- QC Tests: Reproducibility, Chi-square, MDA

Display Screen
- Type: 8 in. VGA LCD color touch screen display
- Bq/Ci Reading: User selectable or fixed
- Activity Display: Selected radionuclide, efficiency, measured activity and display units (Bq/Ci)
- Count Rate Values: Wipe results

Standard Source Data
- System Memory: Cs-137, Eu-152
- Efficiency for commonly used isotopes

PC Port
- Interface: RS-232 and USB
- Compatibility: Standard nuclear medicine management systems

Printer
- RS-232 and USB Ports

Power Requirement
- 100-240 V ac (50/60 Hz) 25 W

Tests
- Diagnostics: Full test of program, system memories

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

ORDERING INFORMATION

- CAPRAC-t Wipe Test/Well Counter: Item #5430-3136
- Cs-137 Rod Source: Item #0975-137R
- Eu-152 Rod Source: Item #0975-152R
- Protective Screen Covers: Item #7900-0352
- Epson Roll Printer: Item #5430-0058
- Well Auxiliary Shield: Item #5420-2141
- Auxiliary Shield: Item #5420-2072
- Test Tubes: Item #0670-0016
- Roll Paper: Item #9282-0009
- Well Liners: Item #5420-0121

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