

RADIONUCLIDE DOSE CALIBRATORS

FOR NUCLEAR MEDICINE AND PET CYCLOTRON



QUALITY

SPEED

PRECISION



COMECER

AN **ATS** COMPANY



-  **Integration with IBC Management Software**
-  **Quality control test**
-  **Accurate measurements**
-  **Fast measurements**
-  **Easy to use**

The radionuclide dose calibrators developed and manufactured by Comecer Netherlands have now been certified with full compliance to the new Medical Device Regulation 2017/745 on Medical devices, Annex IX Chapter I and III by the notified body DEKRA.

Optional accessories



IBC dose calibrator

- Accurate and fast measurements
- Easy to use
- VIK-202 or VIK-203 Extended Range ionization chamber
- IBC-LITE software
- Quality control tests for the ionization chamber
- Seamless integration with the IBC Management Software
- Simultaneous control of two ionization chambers
- FDA approved and MDR certified
- Integrated Mo-99 breakthrough test and radionuclide purity test.

The IBC dose calibrator is a completely digital Radionuclide dose calibrator managed by the IBC-LITE software. It offers a simple and user-friendly interface that supports all functions required for dose calibration when preparing radiopharmaceuticals.

The ionization chamber is connected directly to a PC with Windows (not supplied). The IBC dose calibrator is compatible with all Comecer IBC Workflow Management Software packages for Nuclear Medicine and Radiopharmacy.

The IBC dose calibrator can easily be integrated into any type of Microbiological Safety Cabinets, into dispensing hot cells and into shielded isolators.

Performing the quality controls like the background check, the constancy and accuracy measurement and the linearity test is very easy and intuitive, and the user is completely guided through the process. Besides the standard quality control tests the IBC dose calibrator supports the measurement of the Mo-99 breakthrough in the Tc-99m sample after eluting the generator using the optional accessory Mo-99 breakthrough set. The IBC dose calibrator also supports the measurement of the radionuclide purity test of the radiopharmaceutical by taking a series of automatic measurements and it can determine the radiopharmaceutical half-life and the impurity percentage. The results are stored and it is possible to produce a report.

Related products



Extra lead shielding (20/50 mm Pb)



VDC-606 Dose Calibrator
• 10" touch screen PC
• IBC-LITE software included

The VDC-606 combines the best of both worlds. It has the versatile functionality of a software-based Radionuclide dose calibrator and it is as robust as a stand-alone Radionuclide dose calibrator.

The VDC-606 has the IBC-LITE ergonomic and intuitive touch-based user interface and is optimised to support the workflow of the user.



Dipper lift



Label printer



Reference sources
(not available for worldwide shipping)



Copper dipper Mo-breakthrough set

RADIONUCLIDE DOSE CALIBRATORS | Ionisation chambers

The heart of every Comecer Radionuclide dose calibrator is the ionisation chamber: a completely digital detector that gives a fast, reliable reading.

The VIK-202 ionisation chamber is pressurised at 14 bar (absolute) of Argon and its measurement range is up to 2 Ci (74 GBq) of F-18; the VIK-203 ionisation chamber is also available, pressurised at 1.4 bar (absolute) of Argon, for a measurement range of up to 20 Ci (740 GBq) of F-18.

Technical data - Ionisation chambers	VIK-202	VIK-203
Ionisation chamber	Pressurised (14 bar abs. Argon)	Pressurised (1.4 bar abs. Argon)
Well size	69 mm Ø x 280 mm	
Well liner (inside)	57 mm Ø x 270 mm	
Saturation	>200 GBq (Tc-99m), >70 GBq (F-18) >6 Ci (Tc-99m), >2 Ci (F-18)	>2000 GBq (Tc-99m), >700 GBq (F-18) >60 Ci (Tc-99m), >20 Ci (F-18)
Energy range	25 keV - 3 MeV	
Lead shielding	3 mm Pb	
Linearity	± 1 % between 1 MBq and 200 GBq (Tc-99m)	± 1 % between 50 MBq and 2000 GBq (Tc-99m)
Electrometer accuracy	± 1 %	
Reproducibility	± 1% over 24 hours, stable conditions	
Overall accuracy	± 3 % dependant of specific calibration source and geometric variations	
Response time	Maximum 2 seconds for 95% of the end value	
Power supply	5 VDC, 250 mA	
Cable	2,5 meters	
Dimensions	150 mm Ø (bottom 160 mm) x 451 mm height	
Weight	15,5 kg	

We deal directly with the initial design, mechanics, electronics and software development and therefore we can provide a wide range of unique products for nuclear medicine laboratories, radiochemistry, radiopharmacy and calibration facilities.

Custom versions are not part of the Declaration of Conformity

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