

Dose Calibrator

Dose Calibrator ISOMED 2010

Since approx. 60 years we are on the market, developing and assembling our established MED dose calibrators, which makes us to one of the most experienced manufacturers of these products in Europe.

The result of this experience and the intensive cooperation with our customers is a modern, practical and user-friendly measuring system.

Our PC-based dose calibrators are used for fast and precise activity or volume activity determination of all radiopharmaceuticals used in nuclear medicine.

Characteristics

- PC-based dose calibrator on Windows 7-basis
- space-saving NetTop PC-system for mounting behind the display
- optionally display with touch-screen function
- well-type ionisation chamber with USB connection
- standard measuring chamber calibrated for more than 30 nuclides (also Y-90, Re-186, Lu-177, I-124 and Ra-223 (Alpharadin)), extendible nuclide library
- calibration factors for different containers, container sizes and content (volume) are taken into account to reduce the total error
- activity calculation for freely definable application times
- integrated quality control for background, responsiveness, linearity, molybdenum-breakthrough and constancy check with user guidance and protocol option
- possibilities to link to radiopharmaceutical management programs or RIS-systems via optional HL7-interface
- system extension by syringe filling system SAM for F-18 possible

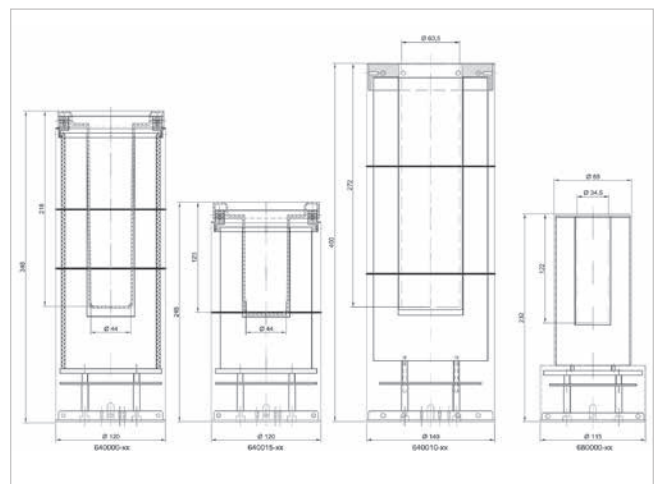


Thanks to its small dimensions, the NetTop PC-system can be mounted behind the display. Both a desktop version (see picture) and a wall version, eventually with VESA arm, are possible. In case of using a display with touch-screen-function, you can work completely without mouse and keyboard. Other PC-systems (for example notebook) are possible.

Apart from the above mentioned complete systems we also offer a basic configuration consisting of a measuring chamber and the ISOMED 2010 software program. The PC-system and the display can be bought by the customer or dealer in that case.

Measuring chamber types

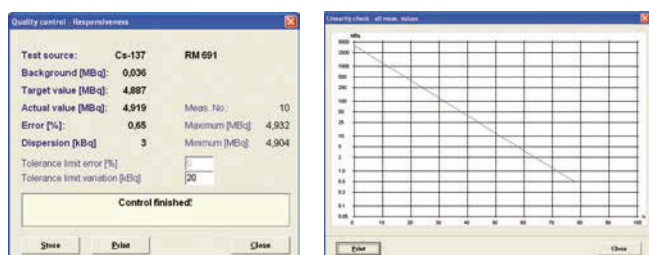
Depending on the field of use, for example regular nuclear medicine or PET-production, we can supply different types of measuring chambers. Even measuring ranges > 1000 GBq are possible. Our measuring chambers are also used as an OEM product by manufacturers of mobile application systems.



Software

Integrated quality control

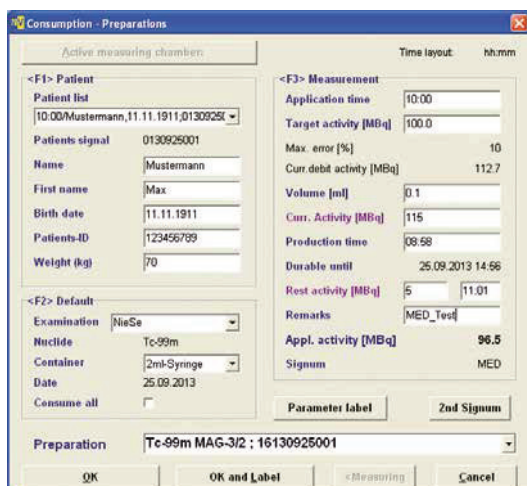
The ISOMED 2010 program contains a menu item for quality control in which some additional quality control features (e.g. responsiveness, linearity, constancy check) required by IEC 61948-4 are already integrated. Each check can be selected and carried out very simply by following the onscreen instructions. The results can be stored and/or printed. The ISOMED 2010 protocols meet the requirements of the medical authorities to provide evidence of the performed quality checks.



Radiopharmaceutical Management Software RPM 2005

The RPM software is a tool for the entire area of radio chemistry / radio pharmacy and nuclear medicine. The software documents the production process of the radioactive medications in compliance with GMP, including all necessary additives, records the production and documents the application to the patient. The program is designed for the administration of both preparations and ready-to-use radiopharmaceuticals. The measured values are transferred automatically from the dose calibrator ISOMED 2010. An optional HL7 module is available for connection to a RIS system. This module allows you to receive patient data from RIS, supplement and transmit them again to RIS.

The radiopharmaceutical management software RPM is delivered with unlimited customer license. No further or recurring license fees are due!



Accessories

Lift system

In order to reduce the radiation exposure when working with highly active samples and/or with a measuring chamber that is incorporated in a production cell or a LAF-box, the sample can be transported into the measuring chamber via a lift system. We offer both pneumatic and electric lift systems which are all controlled via the dose calibrator.



Syringe filling system SAM

An essential factor for radiation exposure which may occur, for example, in the hot laboratory of a PET-CT system, is the process of drawing up the PET activity from the delivered supply container (e.g. 20 ml vial) into the syringe.

If this process is carried out manually, there is a relatively high radiation exposure risk of the lab staff. MED offers an automated, shielded syringe filling system as an accessory to the PC-based dose calibrator.

