

**FASTDOSE** is an innovative dispensing system allowing monodose syringe preparation.

It is based upon a dual ionization chamber dose calibrator technology, working simultaneously to perform continuous activity measuring of both the bulk vial and the syringe.

It is also possible to set the stated bulk concentration in order to obtain a three-point comparison between measurements, for the best dispensing precision.

FASTDOSE gets advantage of a double set of separate peristaltic pumps: one pump, driven in low speed and high precision, is dedicated to radiopharmaceutical dispensing; the second high-speed pump allows dilution of the syringe with saline.

The unique dispenser shape permits to have the filling zone constantly washed by the isolator's laminar air flow.

The system has a full suite of QC software routines for both the dose calibrators and the dispensing system.



## Technical specifications

- Plug & play
- Dedicated state-of-the-art embedded microprocessor based electronics
- PC or TABLET control
- Integrated double dose calibrator
- Disposable sterile kit (daily kit and patient kit)
- Simple and user friendly software
- No need for compressed air or gas
- No need for hot cell/isolator dose calibrator
- Label printer
- Short capillary for operator's dose reduction

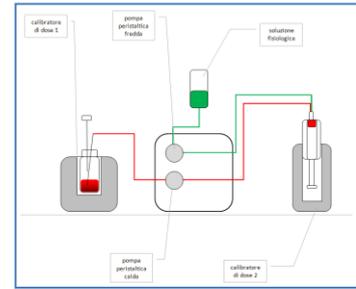
### WORKING PRINCIPLE

FASTDOSE is able to dispense syringes with set activity and volume, by collecting activity from the bulk vial.

Its innovative features allow to install it in any shielded hot cell/isolator not equipped with dose calibrator.

The software is based upon a simple and intuitive user machine interface.

Furthermore, on the PC or TABLET, data are stored permanently (patients and receipts). This data can be exported to Nuclear Medicine management software.



### DISPENSING MODULE

FASTDOSE is equipped with a single needle protected filling system.

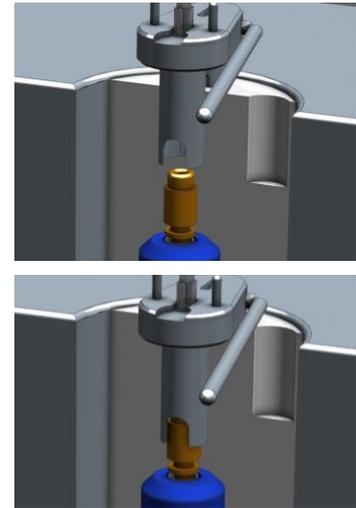
The needle is positioned inside a protection case in order to avoid any interference with operator's hands.

By virtue of a simple lever system the syringe, with perforation septum membrane, is filled from above and its activity is read from below.

For radiopharmaceutical transfer a sterile capillary disposable set is used together with two separate peristaltic pumps.

At the end of each dispensing cycle a simple action allows to remove the calibrated and shielded syringe.

Once the syringe is positioned inside the dedicated dose calibrator, the system will transfer the radiopharmaceutical in it until the set activity and volume are reached.



### MAIN PANEL

The main panel is composed by a PC or a TABLET through which all command are sent to the machine, via TCP/IP protocol.

All calculations are performed by the embedded microprocessor electronics on the dispenser. This electronics also stores all settings and calibration factors.

The operator can log via a password hierarchy, from "Administrator" to "User".

All operations are tracked and stored permanently.



### LABEL PRINTER

The label is customizable and includes patient data, measured activity, calibration time, lot number...



### OPTIONS

A single dose calibrator, with the same syringe measuring geometry, can be supplied. This allows to measure the residual syringe activity after injection.

It is possible to store data to compare them with dispensing system data.



### DIMENSIONS and WEIGHT:

External dimensions: (l x d x h) mm 550 x 205 x h 270. Weight Kg 21