

ADG 2000™

Dispensing Systems

Automatic Syringe Dispenser



Features

- Dose measurement, decay correction, saline dilution, and gas extraction are achieved in one continuous step.
- The accuracy of both systems is within 5% for total activity and within 5% for volume (less than 0.01 ml).
- The systems can manage activity levels up to 2000 mCi at a concentration of 130 mCi/ml.
- Less than 30 seconds is required for dispensing, dilution and gas extraction.
- The operating software serves two main functions.
 - 1) Radiopharmacy function:
 - Selects up to 12 nuclides for dispensing.
 - Enables either one or two dose calibrators to measure activity in the mother vial and activity in the daughter syringe.
 - Performs decay time correction and activity calculation for both the mother vial and the daughter syringe dose.
 - Performs volume calibration and activity concentration measurement for daily QC.
 - Label printer control mode can select a specific printer.
 - 2) Patient Management function:
 - Patient data includes date, injection time, required dose, dispensing dose, ID number, weight, and DOB.
 - Residual activity in empty syringe.
 - Remote display in PET injection room.
 - Patient history data base.
 - Electronically recorded and signed.

Description

These Automatic Dispensing Systems are stand-alone modular devices with three components. These components are the pump and valve control unit, the mechanical control units, and the operating software. The automated functions include activity concentration, measurement and calculation, decay time correction, saline dilution, gas extraction, and patient data management.

Ordering Information

0670-0025 ADG 2000 Automatic Syringe Dispenser



The screenshot displays the software interface for the ADG 2000. It includes several panels: 'Calibrator' showing activity levels for different nuclides (e.g., 693.717 mCi for F18); 'Clock' showing the date and time (2008/05/25 07:13:12); 'Dose Device' showing product and volume information; and a 'Dose schedule' table with columns for Time, Status, Product, Activity, ID, Birth date, and Note. A 'Commands' panel on the right includes buttons for Initialize, Inject, Edit Dose, Dispense, Delete Dose, Label, Calibrate Pump, Setup, Console, Report, and Exit.

Time	Requested activity [µCi]	Dispensed activity [µCi]	ID	Birth date	Note
09:00	10.00	10.00			
Dispensed	F18	0.0			
09:45	10.00	10.00	20080525002		
Dispensed	F18	0.0	Lisa		
10:00	10.00	10.00	20080525003		
Dispensed	F18	0.0	Mandy	Female	
11:15	10.00	10.00	20080525004		
Confirmed	F18		Rason	Male	
12:00	10.00	10.00	20080525005		
Unconfirmed	F18		Josh	Male	