Solution pack

Introduction   Quality management of the system is accomplished using a solution pack that contains multiple levels of precision tonometered electrolyte solutions packaged in gas tight disposable pouches. The solution pack provides the necessary fluids for the calibration and quality control of all measured parameters.

Each solution pack contains a smart chip that provides information to the system regarding the status of the solution pack. The analyzer automatically reads this information when the solution pack is installed onto the analyzer and writes additional information to the smart chip during use. This information includes the following:

- Serial number of the pack

- Lot number for each of four solution pouches

- Install by date (the last day this solution pack can be installed onto an analyzer)

- Installation date (the date this solution pack was installed onto an analyzer)

- Analyzer serial number (the analyzer onto which this pack was installed)

- Number of allowable days in use

- True (calibration) values for each parameter

- Quality control assigned values and acceptable ranges for each parameter (not included in solution packs for the ABL80 FLEX analyzer with BASIC software configuration)

- Number of cycles for each pouch

- Version

Solution pack, *Continued*

SP types
There are four solution pack designs, each with a unique part number:

- SP80 is for use in the ABL80 FLEX analyzer with the FLEX software configuration (REF 944-174)

- A second configuration of the SP80 is for use in the ABL80 FLEX analyzer with the BASIC software configuration (REF 944-309)

- SP80 CO-OX is used in the ABL80 FLEX CO-OX analyzer (REF 944-252)

- A second configuration of the SP80 CO-OX is for use in the ABL80 FLEX CO-OX analyzer with the OSM software configuration (REF 944-341)

Pouches
The solution pack contains five pouches:

- Four pouches contain NIST traceable solutions with various concentrations of tonometered gases, electrolytes and metabolites

  - Metabolites are not included in the SP80 for use with the BASIC software configuration

  - Dyes are included in the SP80 CO-OX for use in the oximeter

  - Only dyes are included in the SP80 CO-OX for use with the OSM software configuration. There are no tonometered gases, electrolytes or metabolites included.

- The fifth pouch collects all liquid waste, both from the internal solutions and all external solutions including the biohazardous bodily fluids from patient samples. The waste pouch contains an additive, which combines with the liquid waste to form a gel. This gel limits spillage and provides an added level of safety.
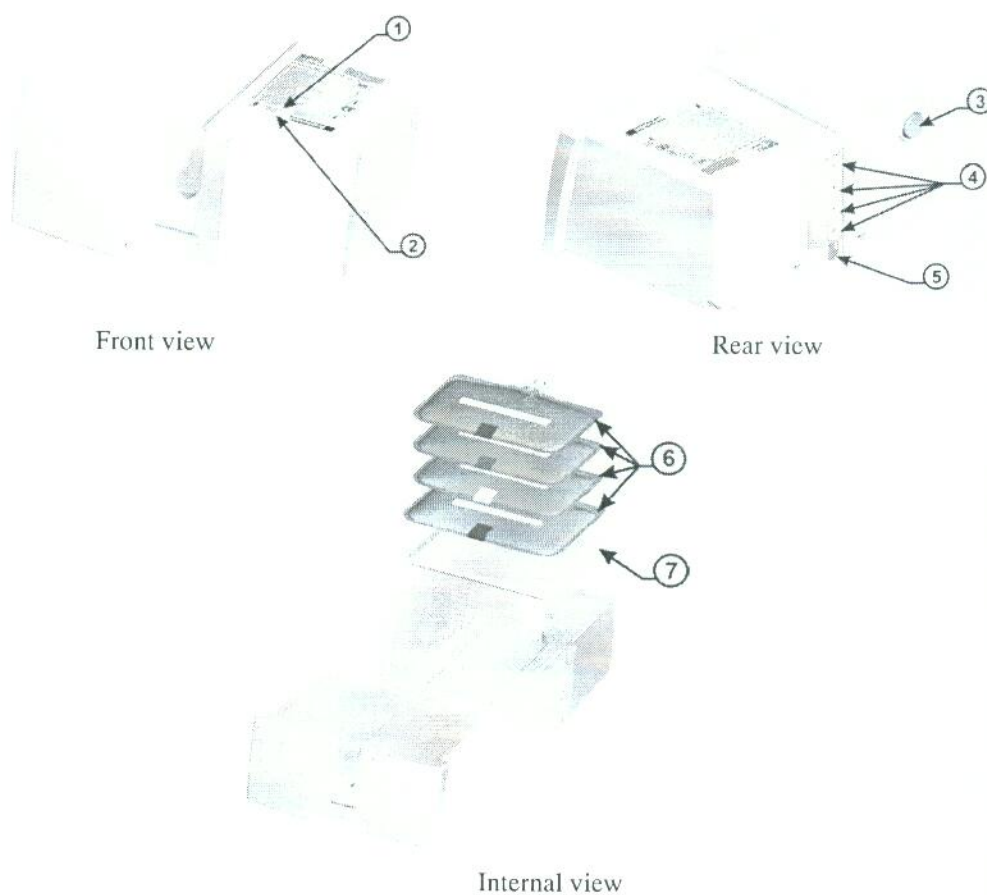
WARNING:
After use, the solution pack may contain material that is a biohazard. Avoid contact with the waste inlet port. Clean any spillage and dispose of cleaning materials and the solution pack in the accepted manner per institutional biohazardous waste disposal guidelines.

Solution pack, *Continued*

Figures   **Solution pack**

Front view   Rear view

Internal view

Parts and functions   The solution pack contains the following components:

Item	Part	Function
1	Install by date	The last day the solution pack can be installed
2	Lot number	The lot number of the solution pack
3	Smart chip	Provides and records specific information pertaining to the solution pack
4	Solution ports	Access ports for the pouch solutions for use in the analyzer
5	Waste port	Entry point of waste fluids into waste pouch
6	Solution pouches	Contain NIST traceable solutions; each pouch contains a unique lot of solutions
7	Waste pouch	Contains all waste fluids