ATHOS™
e-HEALTH SOLUTIONS

Athos™ **Dosys Family**
Automated medication dispensing systems

Athos™ **Pharma** Athos™ **Dosys** Athos™ **Ucri** Athos™ **Mobit** Athos™ **Storage** Athos™ **Temp**

+25 years developing advanced technology solutions
for the Healthcare Community

APD®
Algoritmos, Procesos y Diseños S.A.

Athos™ Dosys Family
Automated dispensing cabinets

Thanks to the automated dispensing systems developed by APD, **minimizing the medication errors,** reducing the workload of the pharmacy staff and improving access to the medications in the nursing units has becomed a reality.

Technology to **improve the logistic processes** related to the medication

The automated dispensing systems Athos Dosys developed by APD are integrated by electronically controlled cabinets and a central management software.

Key features:

Flexible configuration:
Variety of drawers in several degrees of security

User friendly software:
The perfect combination of an intuitive software in a touch screen

Fully integrated
With other Hospital Information Systems, prescription systems and pharmacy stock systems
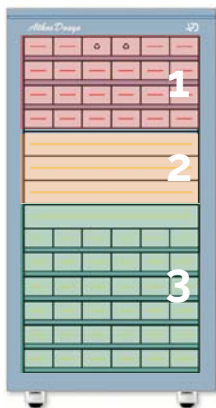
Main Benefits:

- Lowered medication errors related to both dispensing and management of medications.
- Reduced inventory levels in nursing units.
- Improved working time in keeping the medicament inventory levels.
- Increased control of medication expiration dates.
- Lowered medication net costs (between 20% to 40%)*.
- Improved quality of healthcare by ensuring the delivery of the right dose at the right time to the right patient.

* based on hospitals own financial and supply management studies, after initial 6 months of operation.

Main Cabinet

The Main Cabinet is the automated dispensing cabinet for storing and controlling medications and pharmacy supplies.

It´s highly flexible configurations allow up to **14 subframes** with a wide variety of degrees of security and bin sizes. It can control up to **8 auxiliary supply cabinets** combined with refrigerators.

Variety of subframes for storing and dispensing of medications:

1 ▾

Subframe composed of 6 drawers, with 10 bins each, and a sequential opening system to dispense single-doses (dose control). Only one substance and one dose is stored on each bin. This subframe accepts single-width and double-width bins.

Maximum Security

2 ▾

Subframe composed of 6 drawers, with 10 bins each, or a single locking lid drawer with up to 40 locking bins. It provides access to several doses of the same substance (medicament control). Three bin sizes available, single, double or triple.
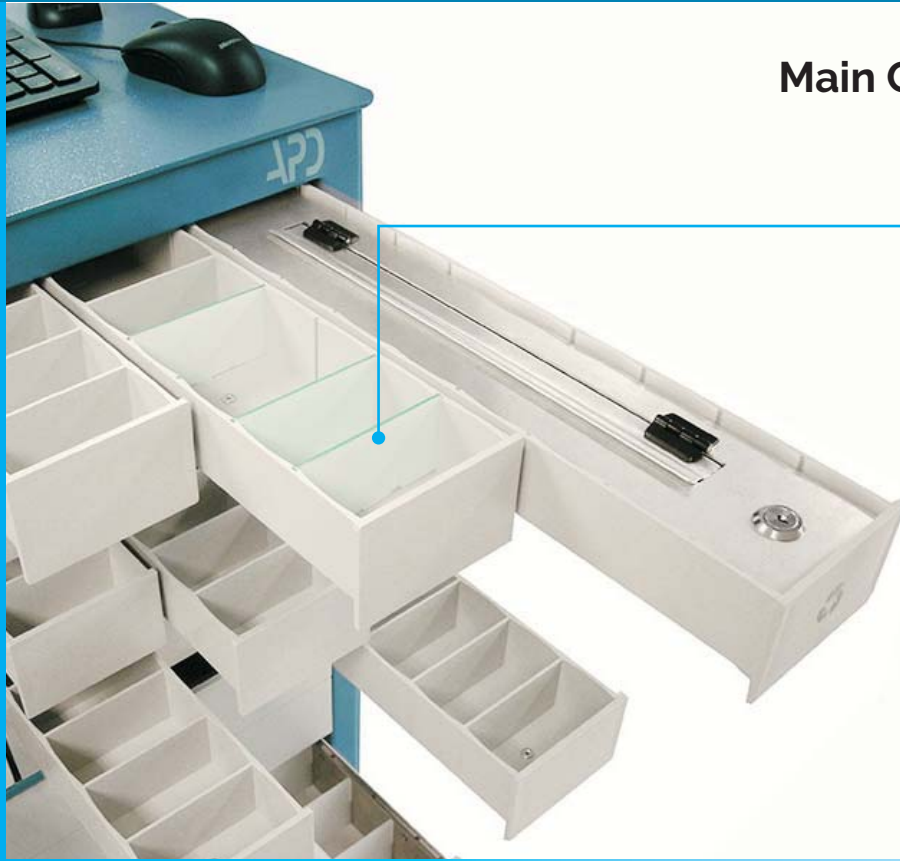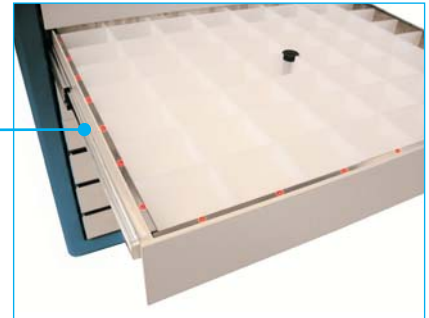
High Security

3 ▾

Subframe composed of 6 drawers, with 10 bins each, or a single configurable drawer with up to 64 lidless bins. This matrix drawer provides access to several doses of a variety of medications (group-of-medicaments control). The bin dividers are adjustable to meet the needs of the medical unit.

Medium Security
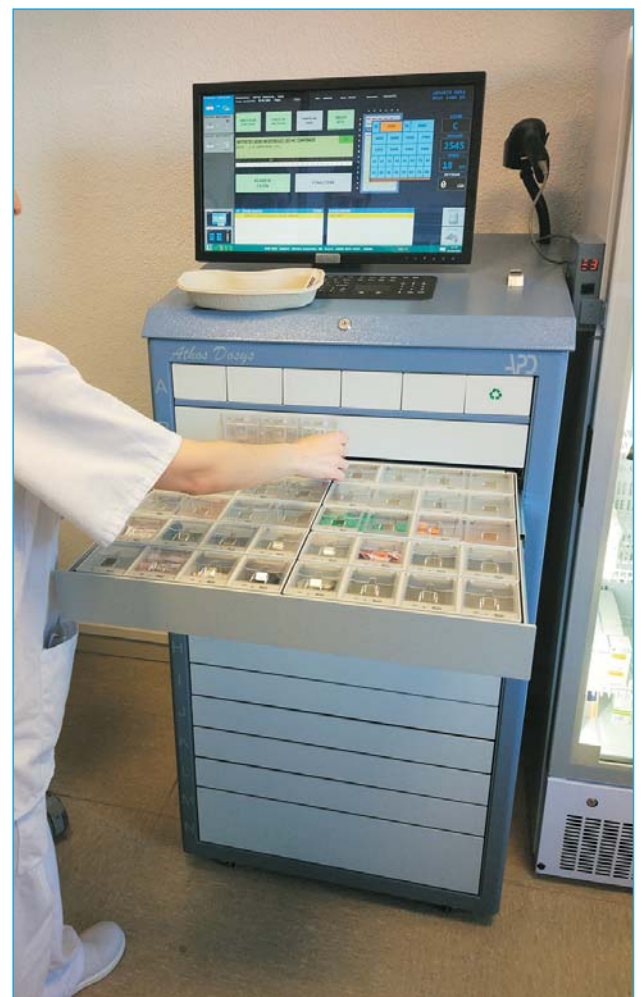
Main Cabinet: Operational Details

Three bin sizes available to accommodate the required quantity of medicaments to meet the medical unit needs.

Guiding lights illuminate the drawer location and individual bins of the required medication, in order to avoid any possible error.

- The Athos Dosys Main Cabinet is equipped with a computer, a touch screen, a mouse and a keyboard to ease its operation and data management.

- The Cabinet includes an interfaces hub to control up to 8 auxiliary supply cabinet combined with refrigerators. This option provides a great level of flexibility to the Hospital professionals.

- The included PC offers fingerprint or keycard identification. The optional barcode scanner or RFID reader guarantees the dispensation and replenishment of medicaments.

- The Athos Dosys software controls the dispensing systems installed in the wards. The console version of the software enables a terminal placed in the Hospital Pharmacy to manage (alarms included) and configure the dispensing systems throughout the hospital.

Hospital 12 de Octubre. Madrid. SPAIN
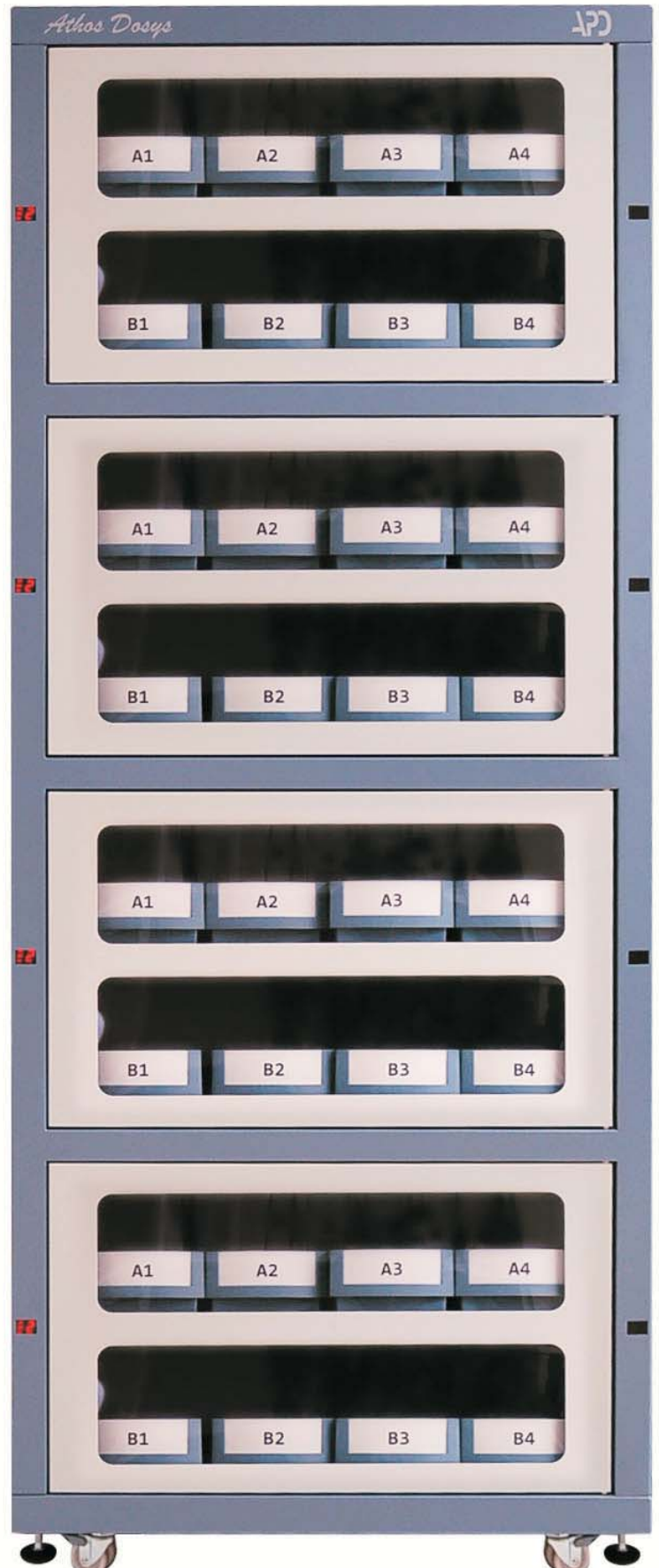
Auxiliar Cabinet

The Auxiliary Cabinet is a medium security dispenser in which those medications whose size do not fit on the Main Cabinet can be placed.

The rack format dimensions are as follows:
Dimensions (H x W x D) mm
2000 x 1600 x 600

- The doors are equipped with an electronic opening system incorporating a glass to display the medicines from the outside.

- The shelves are totally adjustable in height in order Êto optimize the space and to reduce errors when dispensing the medication. It´s also possible to light the interior with white LEDs that are automatically activated when the door is open.

- This cabinet allows connectivity to the computerized management system for the distribution of drugs stored streamlining the procedures of dispensation and improving the efficiency of the pharmaceutical system.

Main Cabinet Specifications

Mechanical	
Exerior Dimensions	Height: 1082 mm (without casters) Width: 653 mm Depth: 700 mm
Weight (Base + Computer + Screen)	196 Kg: 1 x MULMAX + 3 x UNIALT + 10 x UNIMED

Electrical	
Power Supply	125 / 220 Vca

Connectivity	
Data Interface	RJ-45 / Ethernet
Auxiliary supply towers interface	7 x XLR-7S / RS-232 | RS-485
HIS integration	HL7 Protocol
Remote Supervision	SNMP Protocol

Certifications	
EN 61010-1 : 2001 EN 61326 : 2006 IEC 55011 : 1998 EN 61000-4-2 : 2001 EN 61000-4-3 : 2002 EN 61000-4-4 : 2004	EN 61000-4-5 : 2001 EN 61000-4-6 : 2003 EN 61000-4-11 : 2004 EN 61000-3-2 : 2000 EN 61000-3-3 : 2002 EN 61000-3-11 : 2000

Accessories	
1406 MULMAX	Subframe with 6 maximum security drawers (10 single doses)
1406 MULALT	Subframe with 6 high security drawers (1bin)
1406 MULMED	Subframe with 6 medium security drawers (10 bins)
1406 UNIALT	Subframe with up to 40 high security locking bins
1406 UNIMED	·Subframe with up to 64 medium security bins
1406 BCR	Barcode scanner
1406 KYR-FPR	Keyboard with fingerprint reader integrated
1406 FPR	Fingerprint reader
1406 CDM	Secure recycle drawer
1406 DRE-48	Set of 48 dividers for standard drawer

Auxiliary Supply Cabinet Specifications

Mechanics	
Exerior Dimensions	Height: 2000 mm Width: 800 mm Depth: 600 mm
Weight	145 Kg

Electrical	
Supply voltage	24 Vcc
Door opening system	Controlled by te Main Cabinet software
Señalización de gaveta para dispensar / reponer	Through LED display on each dorr. Upper / lower shelf and number of boxes are indicated

Connectivity	
Integration	HL7 Protocol

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