



# Athos™ Dosys Family

Automated medication dispensing systems



Athos™ Pharma



Athos™ Dosys



Athos™ Ucri



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**+25 years** developing advanced technology solutions  
for the Healthcare Community



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 become 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.

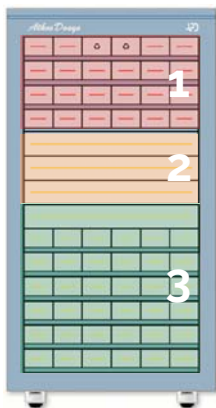
\* based on hospitals own financial and supply management studies, after initial 6 months of operation.



# 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.

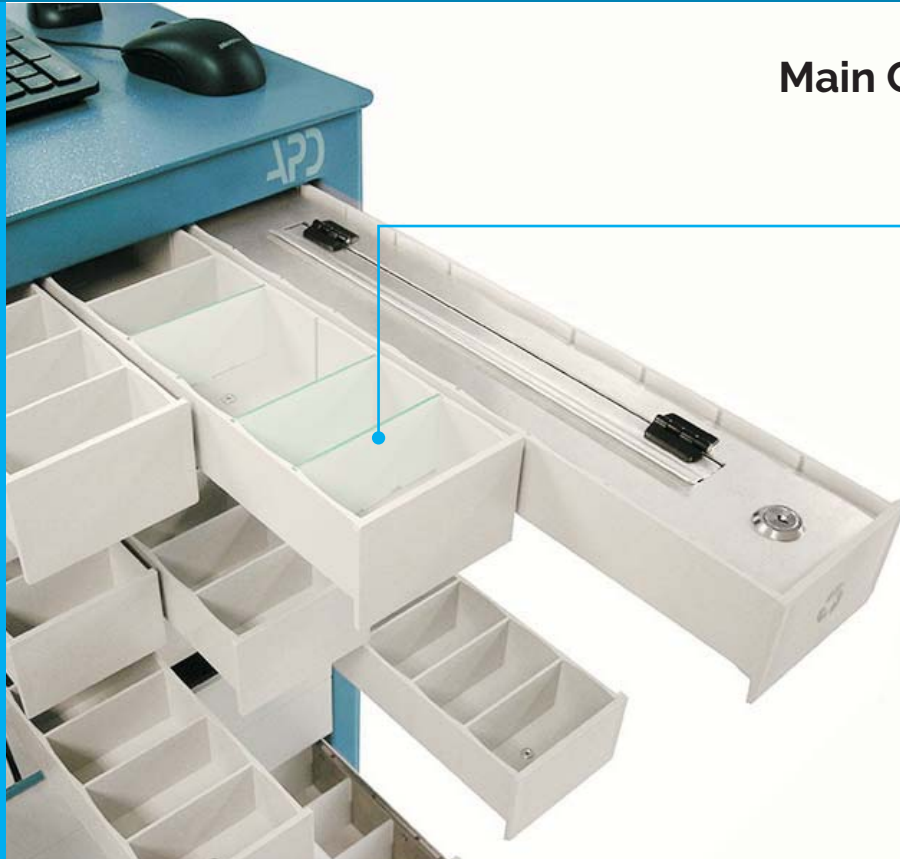
**High Security**

**3** ▼

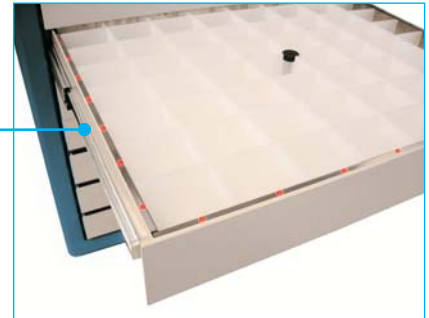
Subframe composed of 6 drawers, with 10 bins each, or a single configurable drawer with up to 64 lidless bins. This matrix drawer provides access to several doses of a variety of medications (group-of-medicaments control). The bin dividers are adjustable to meet the needs of the medical unit.

**Medium Security**

## Main Cabinet: Operational Details

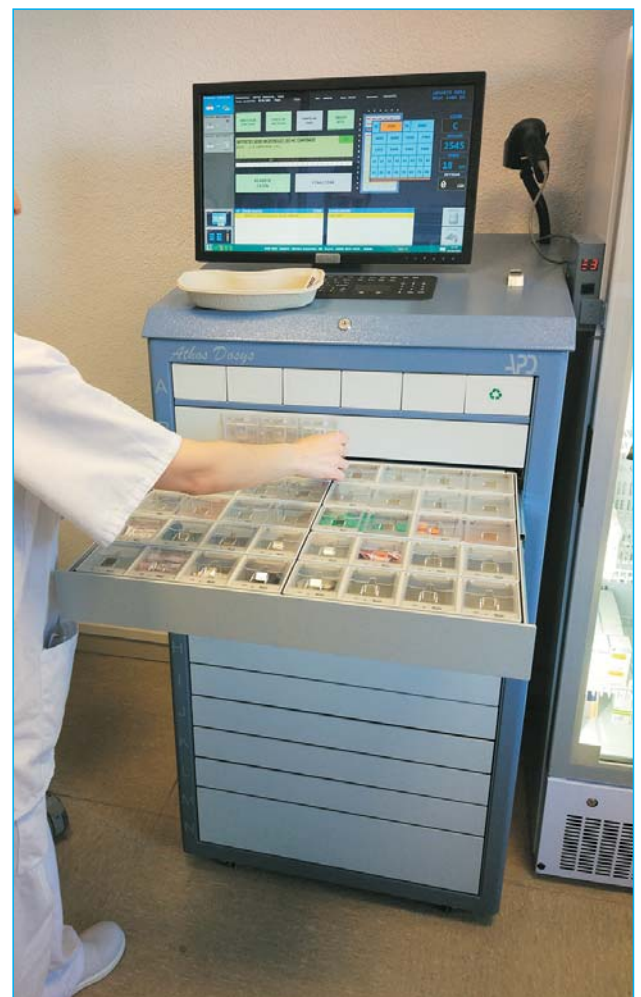


Three bin sizes available to accommodate the required quantity of medicaments to meet the medical unit needs.



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

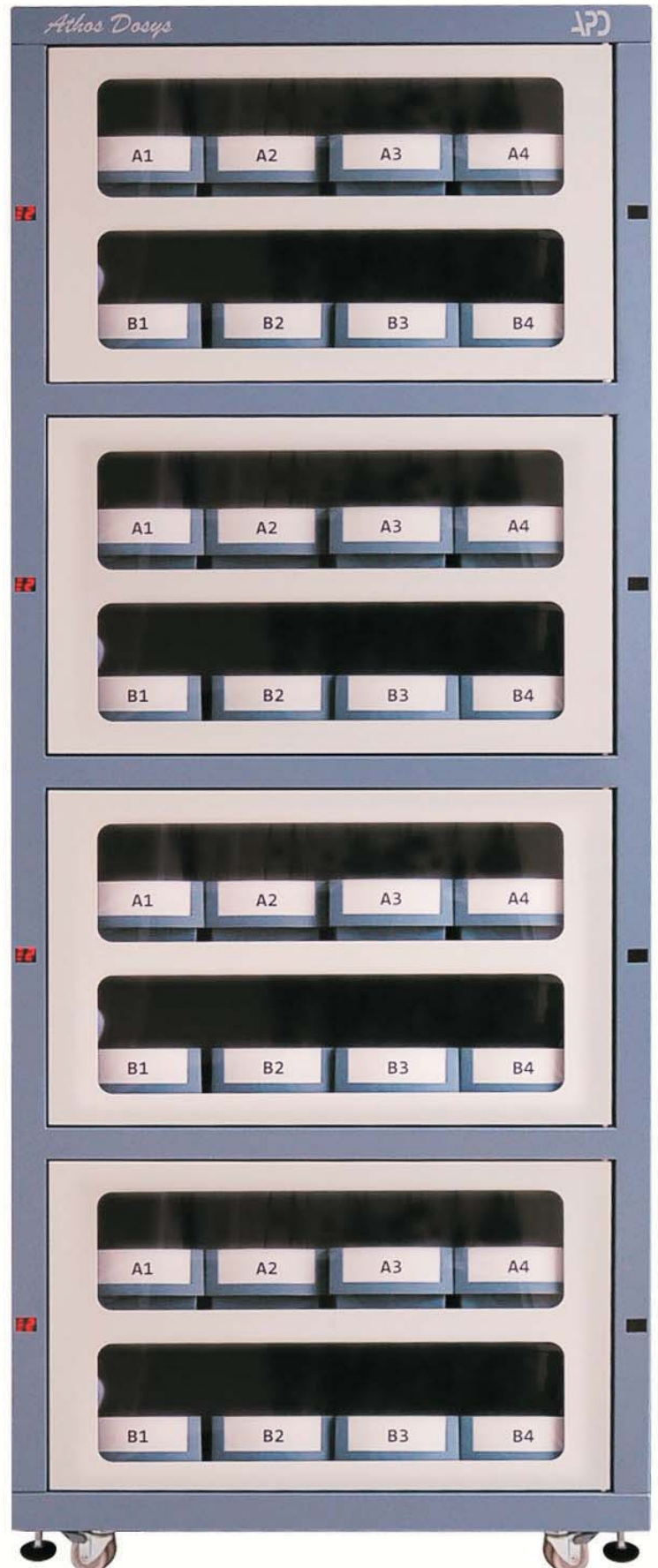
The Auxiliary Cabinet is a medium security dispenser in which those medications whose size do not fit on the Main Cabinet can be placed.

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 to 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)<br>Width: 653 mm<br>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<br>EN 61326 : 2006<br>IEC 55011 : 1998<br>EN 61000-4-2 : 2001<br>EN 61000-4-3 : 2002<br>EN 61000-4-4 : 2004 | EN 61000-4-5 : 2001<br>EN 61000-4-6 : 2003<br>EN 61000-4-11 : 2004<br>EN 61000-3-2 : 2000<br>EN 61000-3-3 : 2002<br>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<br>Width: 800 mm<br>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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