

Athos™ Dosys Family

Automated Medication Dispensing Systems



Athos™ Pharma



Athos™ Dosys



Athos™ Ucri



Athos™ Mobit



Athos™ Storage

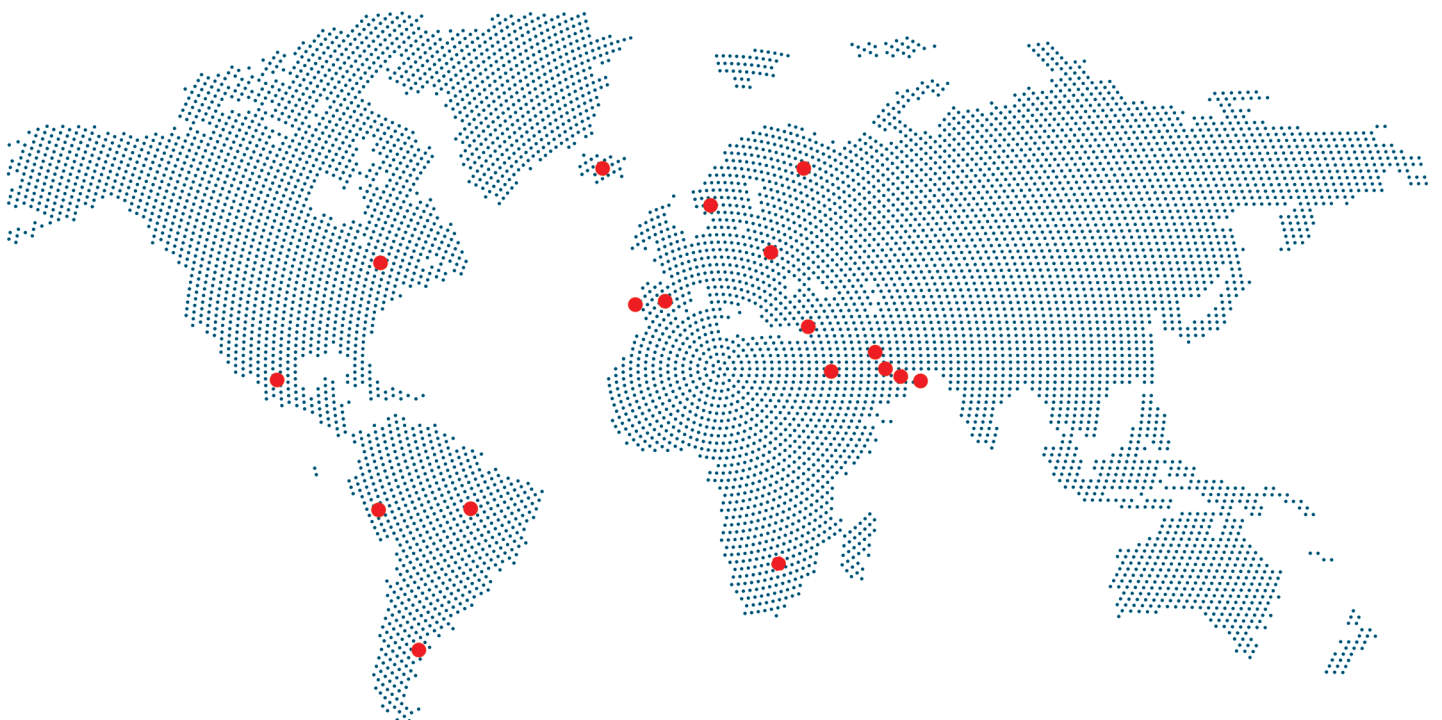


Athos™ Temp

pbsa health, part of the pbsa group, focuses exclusively on the healthcare industry, with its emphasis on digitisation and automation. Solutions include digital signature software that enables electronic prescriptions, and sophisticated modernisation equipment that automates the dispensation of patient medication at pharmacies and pharmaceutical warehouses.

International Presence

- Throughout its history, APD has developed turn-key projects in the different fields in which it operates for companies and institutions in the main world markets.
- Nowadays, APD keeps a permanent presence through a network of Representation Offices, Distributors and Technological Partners in several countries, including Spain, Poland, Norway, Iceland, Canada, the Middle East, virtually all Latin America and South Africa.
- Our adaptability, R&D capabilities and total commitment to both the customer and the projects in which we participate constitute the hallmark of our international development.





Athos™ Dosys Family

Automated Dispensing Cabinets

Thanks to the automated dispensing systems developed by APD, minimising medication errors, reducing pharmacy staff workload, and improving access to medication in nursing units has become a reality.

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

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

Key features:



Flexible configuration:

Variety of drawers with several degrees of security



User friendly software:

The perfect combination of intuitive software and touchscreen technology



Fully integrated

Fully integrated with other hospital information systems, prescription systems and pharmacy stock systems



Main Benefits:

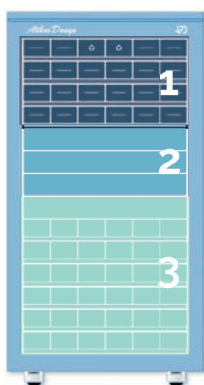
- Lowered medication errors related to both dispensing and management of medications.
- Reduced inventory levels in nursing units.
- Less time spent keeping medication inventory levels.
- Increased control of medication expiration dates.
- Lowered medication net costs (between 20% to 40%)*.
- Improved 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 medication and pharmacy supplies.

The Main Cabinet'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 eight 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 (medication control). Three bin sizes available, single, double or triple.

High Security

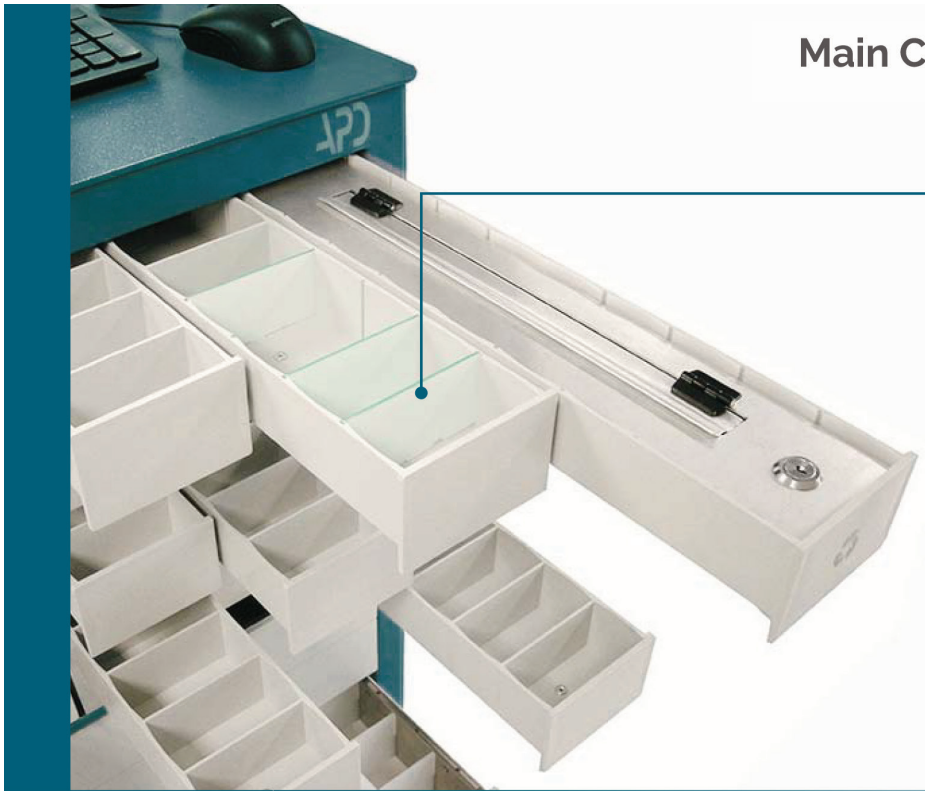
3▼

Subframe composed of 6 drawers, with 10 bins each, or a single configurable drawer with up to 64 lidless bins.

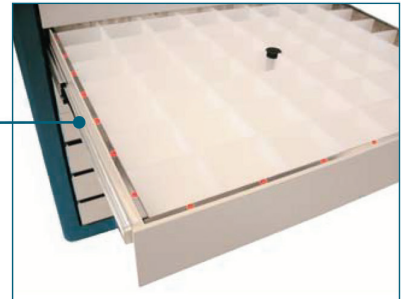
This matrix drawer provides access to several doses of a variety of medications (group-of-medication control). The bin dividers are adjustable to meet the needs of the medical unit.

Medium Security

Main Cabinet: Operational Details

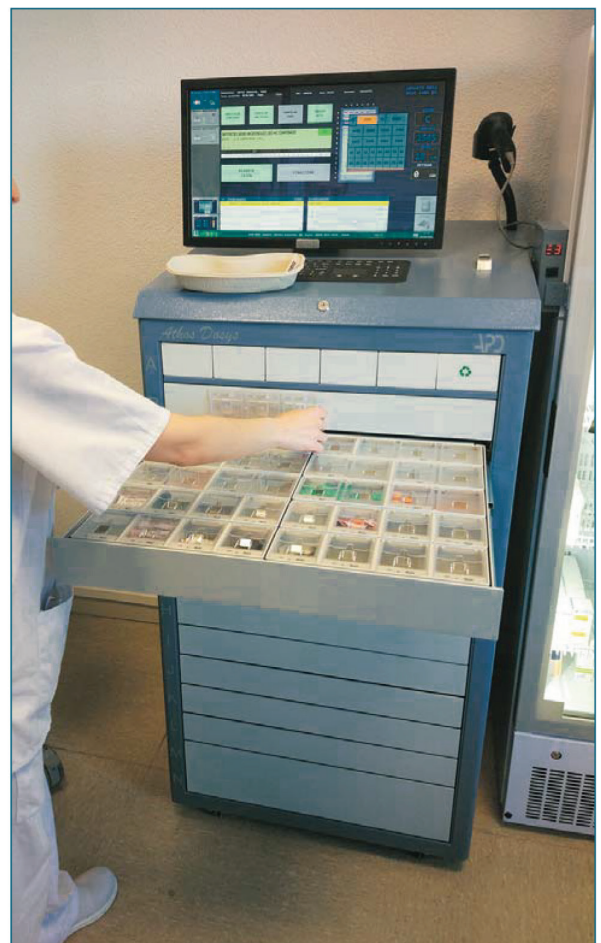


Three bin sizes available to accommodate the required quantity of medicaments to meet the medical unit needs.



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 eight auxiliary supply cabinets combined with refrigerators. This option provides a great level of flexibility to 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

Auxiliary Cabinet

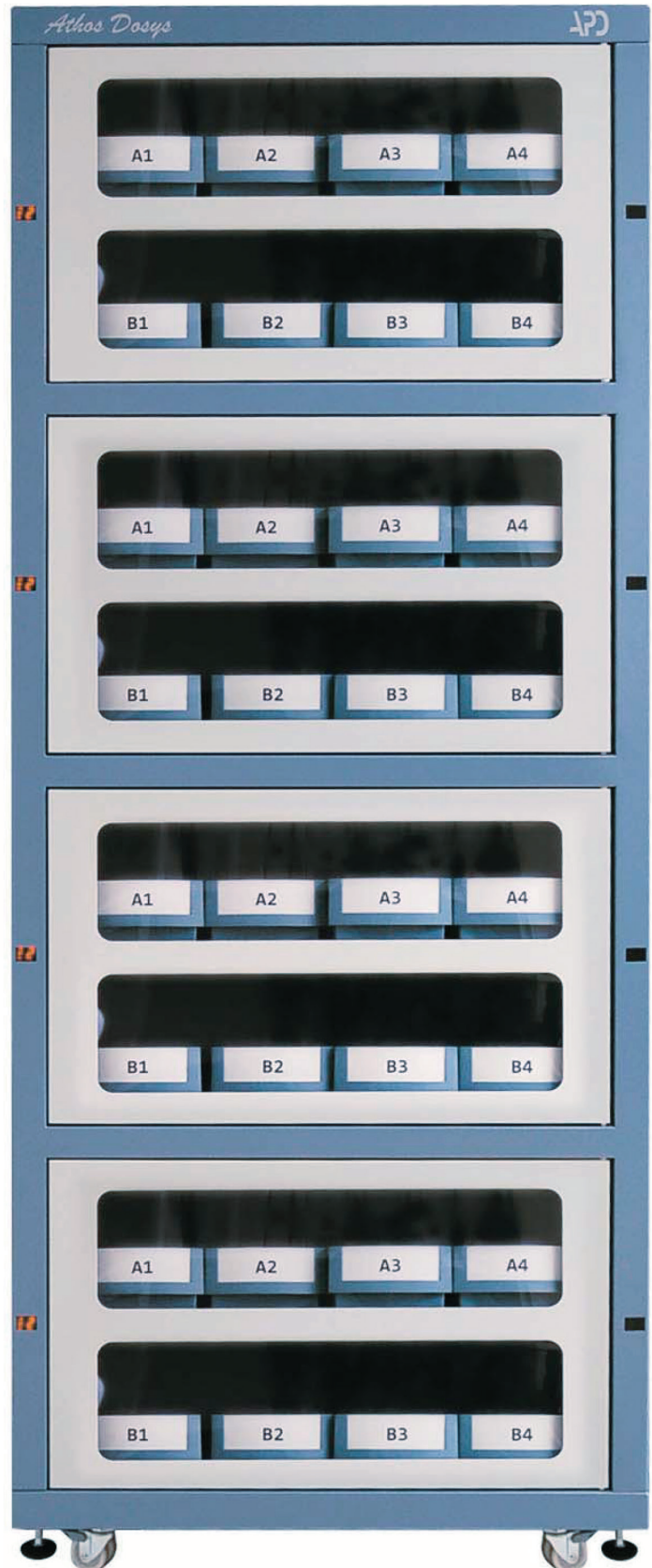
The Auxiliary Cabinet is a medium-security dispenser for medications that do not fit in the Main Cabinet.

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 with a glass front for the sake of displaying medicines.
- The shelves are totally adjustable in height in order to optimise 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 computerised management system for the distribution of drugs stored. This streamlines the procedures of dispensation and improves the efficiency of the pharmaceutical system.





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Main Cabinet Specifications

Mechanical	
Exterior 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	
Exterior Dimensions	Height: 2000 mm Width: 800 mm Depth: 600 mm
Weight	145 Kg
Electrical	
Supply voltage	24 Vcc
Door opening system	Controlled by the Main Cabinet software
Drawer signaling for dispensing/replenishing	Through LED display on each door. Upper / lower shelf and number of boxes are indicated
Connectivity	
Integration	HL7 Protocol