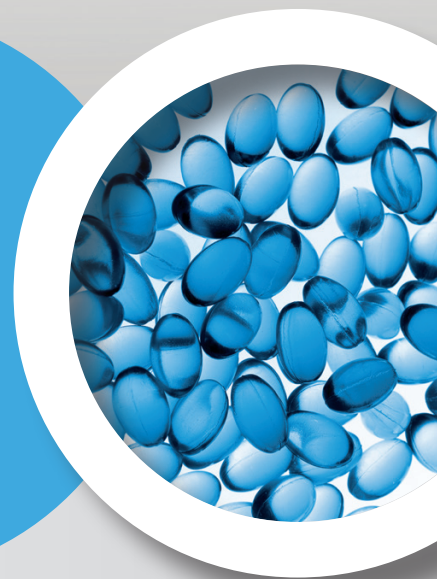




FIELDCLIMA STABILITY SERIES

MOBILE WALK-IN ENVIRONMENTAL CHAMBERS

CONTROLLED CLIMATE ROOMS FOR STABILITY STUDIES,
TESTING, OR STORAGE – READY FOR OUTDOOR OR
INDOOR INSTALLATION.





ARALAB is a company specialized in designing, developing, manufacturing and servicing of high quality climatic chambers and controlled environment rooms.

Since 1985 we have been perfecting ways to create and control temperature, humidity, light, air flow and many other environmental conditions.

Only the highest quality components are used to manufacture our chambers so customers can have the best equipment for their research and testing purposes.

Control the Environment. Your Own Climate.



FieldClima Mobile Stability Chambers extend Aralab's expertise in environmental simulation to fully self-contained, transportable systems, delivering reliable stability testing and controlled storage conditions in any location.

COMMON APPLICATIONS INCLUDE:

- ICH STABILITY TESTING
- PHARMACEUTICALS
- FOOD AND BEVERAGES
- COSMETICS
- VETERINARY
- STORAGE AND CONSERVATION
- QUALITY CONTROL AND RESEARCH



KEY FEATURES

- Environmental conditions controlled with consistent precision through the years
- Pre-configured with shelves designed to provide an efficient use of the internal volume
- Adaptive internal design, with height adjustable trays and shelves that are easy to insert or remove depending on storage needs
- Content protection features, with configurable high / low temperature and humidity alarms and automatic remote notifications
- FDA 21 CFR part 11 compliant software (Gamp5)
- Compliant and recognized by ICH, FDA, GMP and other leading industry standards
- IQ, OQ, PQ and ISO calibration documents














FIELDCLIMA STABILITY 40



FIELDCLIMA STABILITY 22

TECHNICAL SPECIFICATIONS

TEMPERATURE RANGE ^[1]		15°C to 45°C
TEMPERATURE FLUCTUATION IN TIME ^[2]		± 0,5°C
TEMPERATURE UNIFORMITY IN SPACE ^[2]		± 1,0°C
HUMIDITY RANGE ^[1]		35% to 90% rH
HUMIDITY FLUCTUATION IN TIME ^[2]		± 1% rH
HUMIDITY UNIFORMITY IN SPACE ^[2]		± 2,5% rH
SHELVES AND TRAYS ^[3]		Modular shelving structures made of anodized aluminium with polyethylene shelves are included with the chambers. Each module has 5 tiers/levels of shelves. Additional tiers of shelves can be added to increase total storage capacity. Maximum weight load of 150Kg per shelf (evenly distributed).
APPROXIMATE STORAGE CAPACITY ^[4] FIELDCLIMA 22 PH FIELDCLIMA 40 PH		14 m ² 21 m ²
LIGHT		Surface-mounted linear LED lights installed on the ceiling. Light can be operated by manual switch, triggered by door opening or controller integrated (programmable).
AIRFLOW VELOCITY		Can be adjusted by set-point % on the controller
INTERNAL VOLUMES		22 000 L (13m ³) or 40 000 L (38m ³)

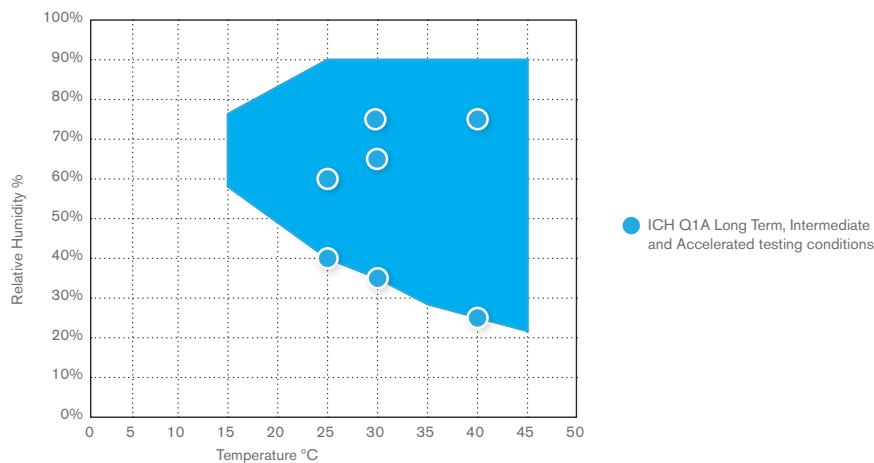
[1] Temperature range extension available from 5°C to 45°C. Please contact Aralab for other technical requirements.

[2] IEC60068-3-5

[3] Aralab Stability rooms are pre-configured with shelves to provide the most efficient use of the available space (5 levels with approximately 470mm or 530mm of depth each). Also available stainless steel AISI 304 shelves as option.

[4] Additional trays/levels can be added to shelving configuration.



HUMIDITY WORKING RANGE^[1]

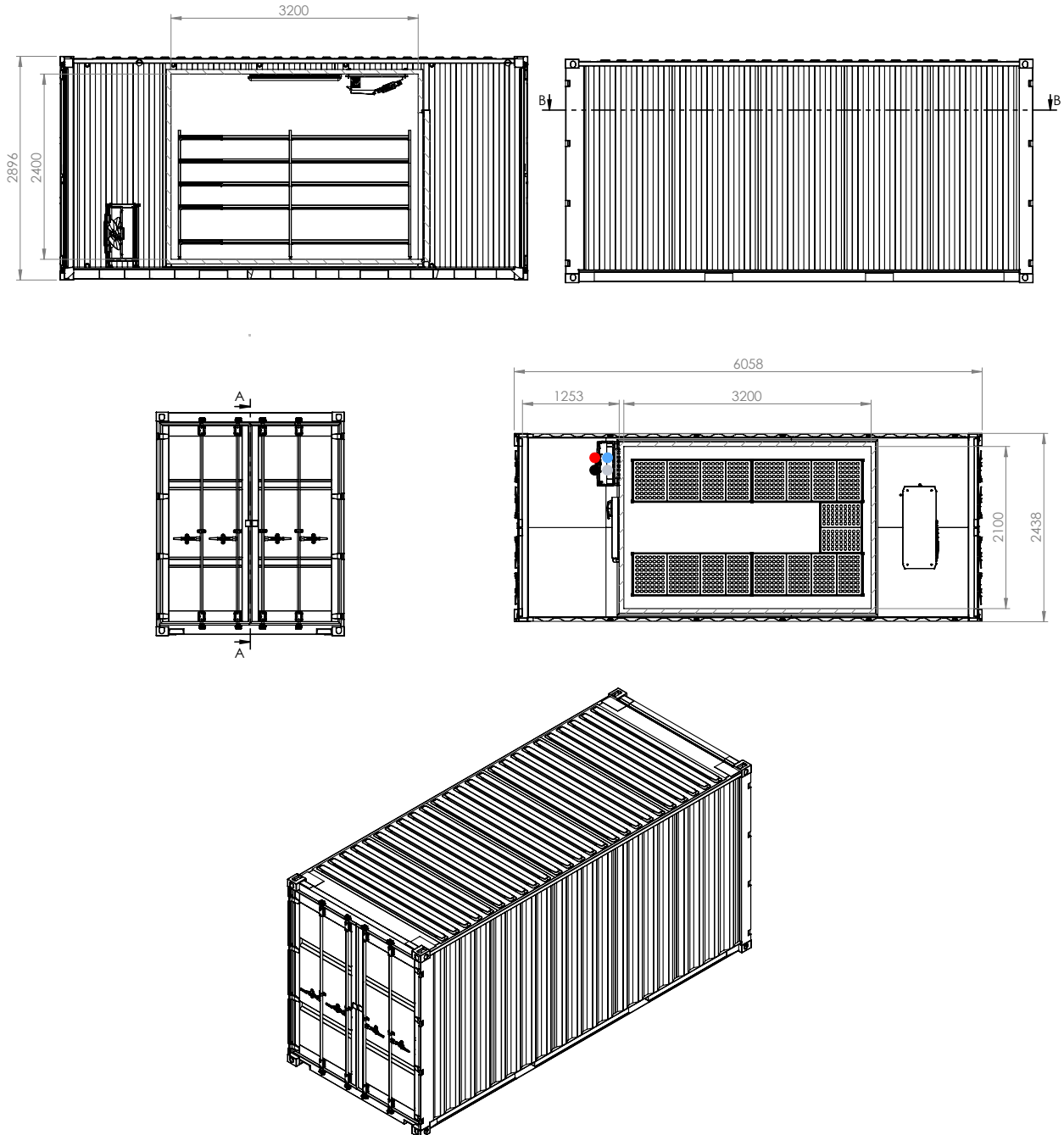


[1] Range with standard performance. Temperature and Humidity range extensions are possible. Please consult Aralab with requirements.

DIMENSIONS AND DRAWINGS

● ● ● ● FIELDCLIMA STABILITY 22

EXTERNAL DIMENSIONS (HxWxD) (mm)		2 896 x 2 438 x 6 058
INTERNAL DIMENSIONS (HxWxD) (mm)		2 400 x 2 100 x 3 200





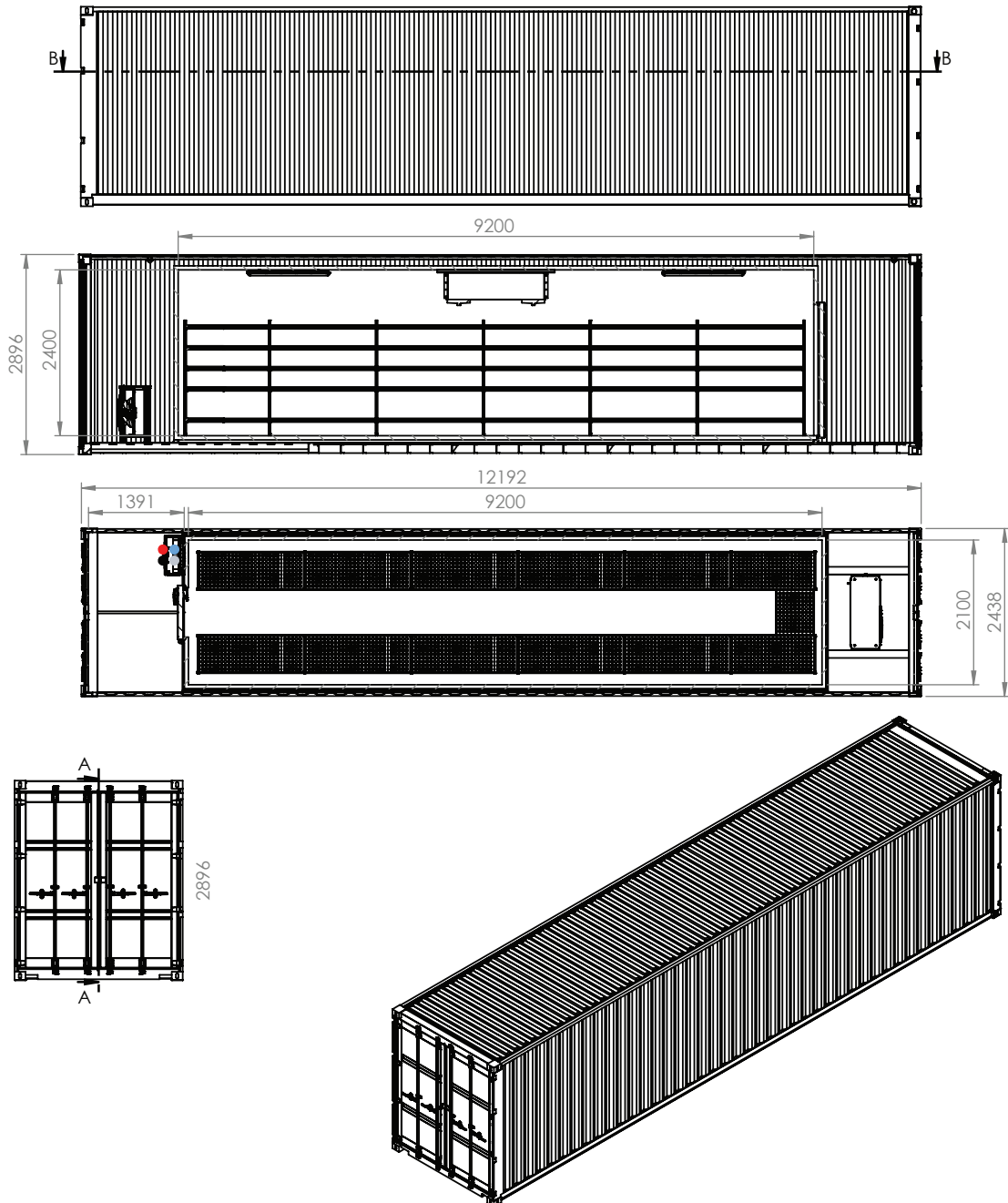
- Standard refrigeration system is air cooled
- Services installation needs:
 - 3/4" demineralized water supply
 - Conductivity: <math>< 50 \mu\text{S}/\text{cm}</math>
 - Pressure: 1-5 Bar
 - Maximum water consumption: 2,1L/h
 - 50mm water drain at floor level

- Electrical cabinet installation needs:
 - Supply power: 400VAC, 50Hz, 15A / 3-Phase + Neutral + Ground
 - Electrical protection: Circuit breaker 3 x 15A + N with 300mA differential
 - 3-Phase electrical cable RV-K 5G4 on the top
 - RJ45 Ethernet socket communication port

DIMENSIONS AND DRAWINGS

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EXTERNAL DIMENSIONS (HxWxD) (mm)		2 896 x 2 438 x 12 192
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EQUIPMENT DESCRIPTION



CONSTRUCTION

- Exterior shell: Standard new and reinforced ISO shipping container (20' or 40'), providing weather-resistant protection for outdoor installation. Painted with high-durability marine epoxy coating.
- Insulated inner chamber: EN 14509 sandwich-type high-density polyurethane modular panels, 85 mm thick .
- Shelving and trays: Standard anodized aluminium racks with polyethylene trays (5 tiers per side); optional stainless-steel structures for heavy loads.
- Floor: Slip-resistant, stainless steel.
- Controller: New-generation multi-colour touch-screen ClimaPlus® controller.
- External door – original container door, reinforced and weather-sealed, providing access to the technical area housing the refrigeration group and electrical cabinet.
- Inner chamber door – insulated door with key lock, and interior safety opening system.
- Open-door alarm: Configurable time-out and automatic fan stop on door opening.
- Connectivity: Free slots for connecting and integrating external devices with the controller.



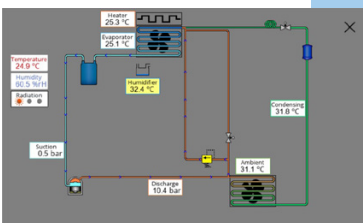
CLIMATIC CONTROL

- Air-cooled, CFC free, mechanical refrigeration by hermetic condenser group. (Water-cooled condenser also possible)
- Dual heating technology with hot gas by-pass and stainless steel electric heaters
- Humidification by means of highly efficient 'micro' steam humidity generator. Alternatively, ultrasonic humidity generators can also be used
- Dehumidification by condensation on the cooling system evaporator



AIR FLOW

- Dynamic airflow with EC (variable) blower
- Horizontal flow cooler evaporators with last generation rotor motors for improved energy efficiency.
- Powerful and efficient airflow pattern within the chamber, promoting temperature and humidity uniformity throughout all areas, including shelves.
- Air renovation through adjustable lateral port-holes
- Airflow velocity adjustable at the ClimaPlus© controller

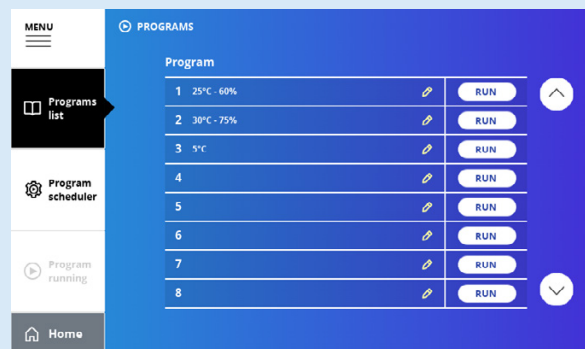
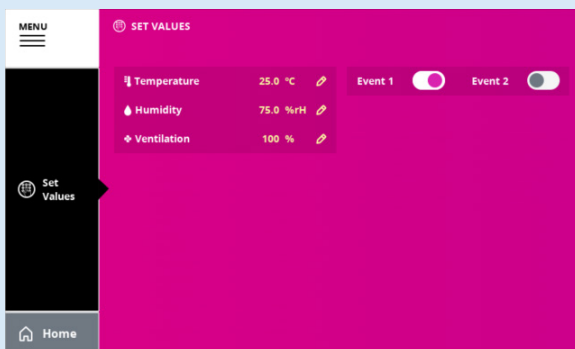
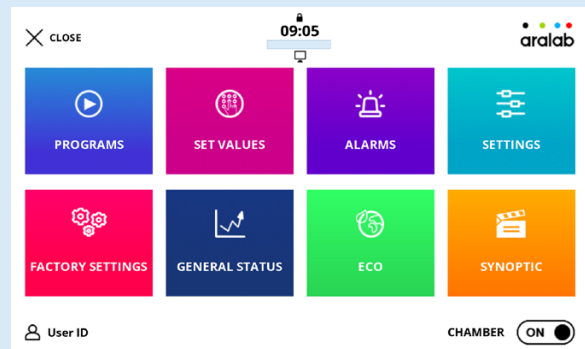
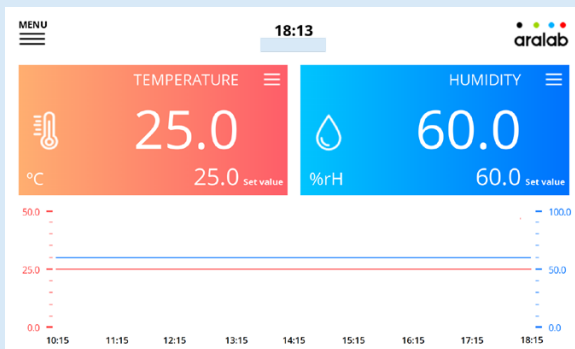


CONTENT PROTECTION AND AUTOMATIC DIAGNOSTICS

- Independent thermostats for maximum and minimum temperature limits
- Automatic cut-off function, in case of excessive heating or cooling
- Configurable maximum and minimum temperature and humidity limits
- Visual and audible alarms for temperature and humidity limits
- Synoptic diagram function: a self-diagnostics tool that checks all active components of the system allowing for faster procedures and minimizing any possible downtimes

CLIMAPLUS CONTROLLER HMI

- Programmable Logic Controller exclusively developed by Aralab for Aralab chambers.
- Multi-language, easy-to-use touch-screen interface (EN, FR, DE, IT, PT, ES and other languages on request).
- 90mm x 155mm (7 inch) multicolor display.
- Controls every environmental variable available for any specific StabilClima model (Temperature, Humidity, Lights, Airflow, CO2 and connected external devices).
- Friendly program editor for creating 32 programs of 24 segments each, allowing the design of complex and comprehensive climatic simulation programs.
- Password protection of the controller functions.
- Content and research protection feature, with configurable High and Low Temperature and Humidity alarms and automatic notifications.
- Managing, monitoring and recording of all alarms.
- Non-volatile memory, allowing the automatic restart of previously defined set-points or ongoing programs due to power failure, without losing data.
- Real-time monitoring of all the functions and active components of the equipment, allowing for a fast and accurate diagnostic in case of malfunction.
- Possibility to control and program events by external commands and with external devices.
- Graphical view of programs and climatic variables.
- Ethernet and Wi-Fi for connecting computers to the controller.
- ClimaPlus controller functions also available at the PC/Laptop with the FitLog software pack.



FITOLOG SOFTWARE GAMP 5

The FitoLog software pack - FDA 21 CFR part 11 and Eudralex compliant according to GAMP5 risk based approach - is a set of applications designed to facilitate the programming, monitoring, managing and recording of programs and data from the FitoClima chambers. It consists of 3 applications: **FitoLog**, **FitoLogView** and **FitoProgram**.



FITOLOG

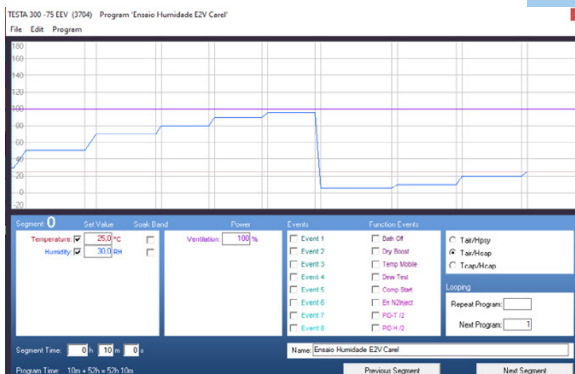
Displays and records in real time all data and details related to the set-points, running variables and equipment behaviour. It also retrieves information about the active components of the chamber, running processes, errors, alarms and allows the configuration of periodic or alarm triggered remote notifications (by email or SMS, depending on existing connections and accessories).

User Access Levels can be managed and configured (exclusive for FitoLog FDA 21CFR part11 compliant version)



FITOLOGVIEW

It is a working tool to process data recorded by the FitoLog program. One can view, print and export the log contents to other file types, and analyse the data in other data management software (Excel, Star Office, Access or others).



FITOPROGRAM

This application simplifies the creation of programs and its integration on the chamber ClimaPlus controller. Up to 32 programs, each with 24 segments, can be designed and linked to create detailed environmental profiles and simulations.

CONTENT SECURED WITH ALARMS, NOTIFICATIONS, FAST DIAGNOSTICS AND PROMPT TROUBLESHOOTING

With FitoLog it is possible to gather data from each of the chambers systems, which makes it a very useful tool to diagnose any necessary maintenance. This tool works as the "black box" of the equipment, giving Aralab technicians the necessary data to remotely carry out a fast and efficient diagnostic. All that is needed is a FitoLog file.

COMMON ACCESSORIES

PLEASE CONSULT ARALAB FOR OTHER ITEMS

FitoLog® software pack for PC/Laptops, enabling data monitoring and logging (FDA 21 CFR part 11 compliant)

IQ, OQ, PQ documentation

ISO 17025 calibration

Additional temperature and humidity sensors

Additional shelves and racks

Shelves in AISI 304 stainless steel

Observation window on the door

Entry-ports for passing of cables or additional interconnections

Wireless network connection between chambers and PC

UPS for continuous data logging during outage

5 stage Reverse Osmosis with pre-decalcification water treatment system

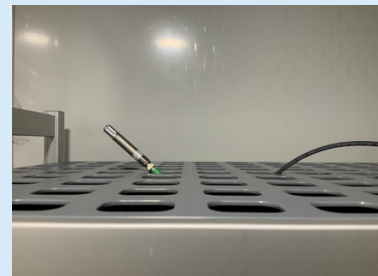
Electro-magnetic door lock with pin code access control



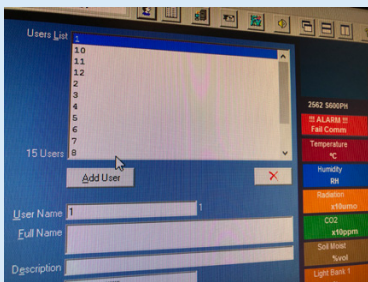
Water treatment systems



Additional tiers of shelves



Additional sensors / loggers



FDA 21CFR part11 software



AISI 304 Stainless Steel shelving

Let's meet!

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Configure your
chamber

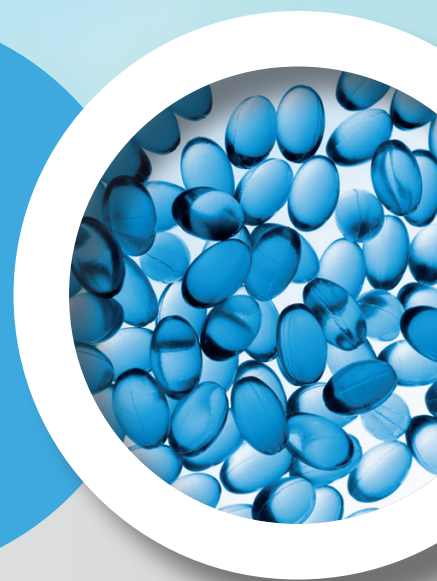
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Control the environment

Your own climate