





Your Own Climate.

What drives us is simple: to develop environmental simulation solutions that go beyond your success expectations.

PROJECTS

Since 1985 we have become partners of companies and researchers from 4 continents. Together, we grew in 3 fields of expertise:

Biotechnology and Plant Growth Research

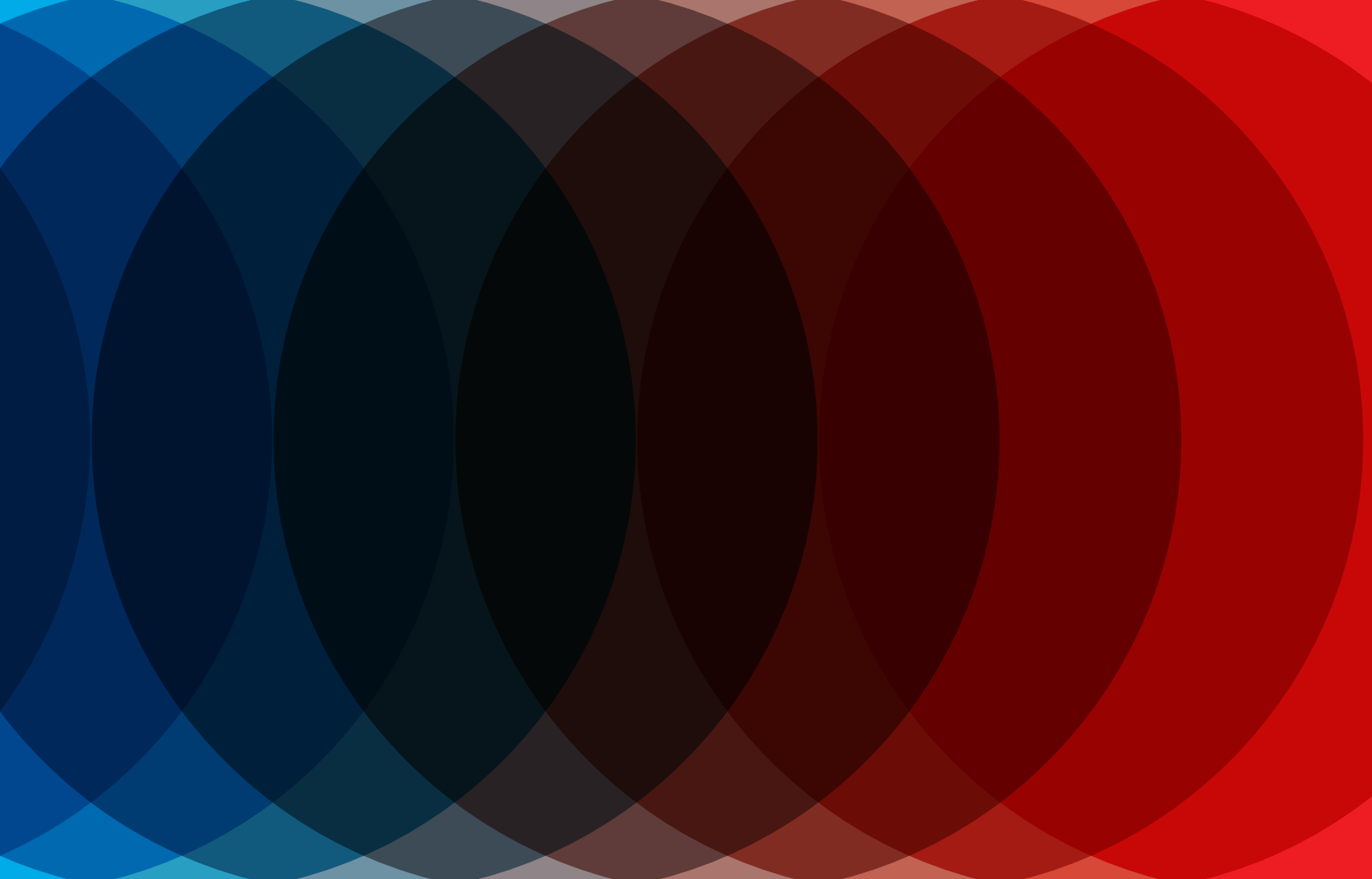
Tissue culture, arabidopsis research, plant growth, seeds dehydration and germination and entomology.

Stability Tests and Controlled Storage

Pharmaceutical products, cosmetics and food products.

Environmental Testing

Thermal and climatic testing for electronics, automotive, metrology and calibrations, solar modules, vibrations, freeze/thaw, radiation aging, curing tests and many special chambers.



CHOICES

User centered

We constantly look at the present and future needs of our customers all around the world. Customer projects are a determinant source of innovation and specialized knowledge.

Continuous improvement and customer guidance are our main quality guidelines.

R&D

The research for new environmental control and simulation technologies and the integration of highly specialized human resources allows us to ensure the development of new products and solutions.

In Aralab's Lab we develop monitoring and software tools that you only find in an Aralab chamber. Our ClimaPlus controllers and our FitoLog software allow real time monitoring, giving our technicians the necessary data to remotely carry out a fast and efficient diagnostic.

Quality

Our reputation has been built upon our ability to supply high quality products, incorporate innovative design concepts and is backed-up by a comprehensive after sales support service. Obtaining the ISO 9001 certification in early 2000 was a recognition of our performance and dedication to Quality.

Sustainability

Sustainability is a matter of long-term vision and intelligence. Aralab is fully committed to contribute to a smarter world. We have been migrating to greener energy sources; and our waste practices are environment friendly (separation, recycling and safe destruction of non-recyclable materials).

Team

R&D, management and production teams in Portugal, technical and commercial teams in +60 countries and 4 continents. But this is just a part of the team. The other part, just as important and decisive as the other, is the customer.

All customers, with their projects, challenges and knowledge are our drive for innovation and improvement. In the next pages only a small list of 30 names can fit.... But there are hundreds more and in Aralab they all fit.

Only your name is missing.



BIOTECH & PLANT GROWTH

Agroscope
Arvalis
Bioline Agrosiences Ltd
Biological Research Center BRC
Cawthron Institute
CCMAR
CRAG
CBGP
CIEMAT
Chinese Academy of Sciences
Center Plant Systems Biology and Biotechnology
CREA
CSIC
Duke - NUS Medical School
Edge Hill University
ESR Christchurch
ETH Zürich
Faculty of Agriculture Belgrade
Faculty of Science Zagreb
Instituto Gulbenkian Ciencia
Fundação Champalimaud
Hebrew University
Helsinki University
Imperial College
INRA
TLL Temasek Life Sciences
Unilever
University of Maryland
University of Oxford
University of Warwick



STABILITY & CONTROLLED STORAGE

3R Pharmaceutical & Cosmetic Industries Co.
ARC Pharma
Astrazeneca
Atlas Pharmaceutic
Baxter
Bayer
Bial
Biovac
Bluestabil – Stability Storage Services
Bova Specials UK Ltd
Bristol-Myers Squibb
Centurion Pharma
Chuannan Hisoar Pharma
Cosmoform
CStone Pharmaceuticals Co., Ltd.
Dallah Pharma
Pfizer
Procter & Gamble International Operations SA
Q1 Scientific
Ranbaxy Pharmaceuticals
SAJA Pharmaceuticals
Sandoz
Sanofi
Skyepharma AG
Synergy Health Ireland Limited
Tecnimed, S.A.
Teva – Actavis
Tilray
University of Queensland
Warwick Equest Limited - Lubrizol Life Science

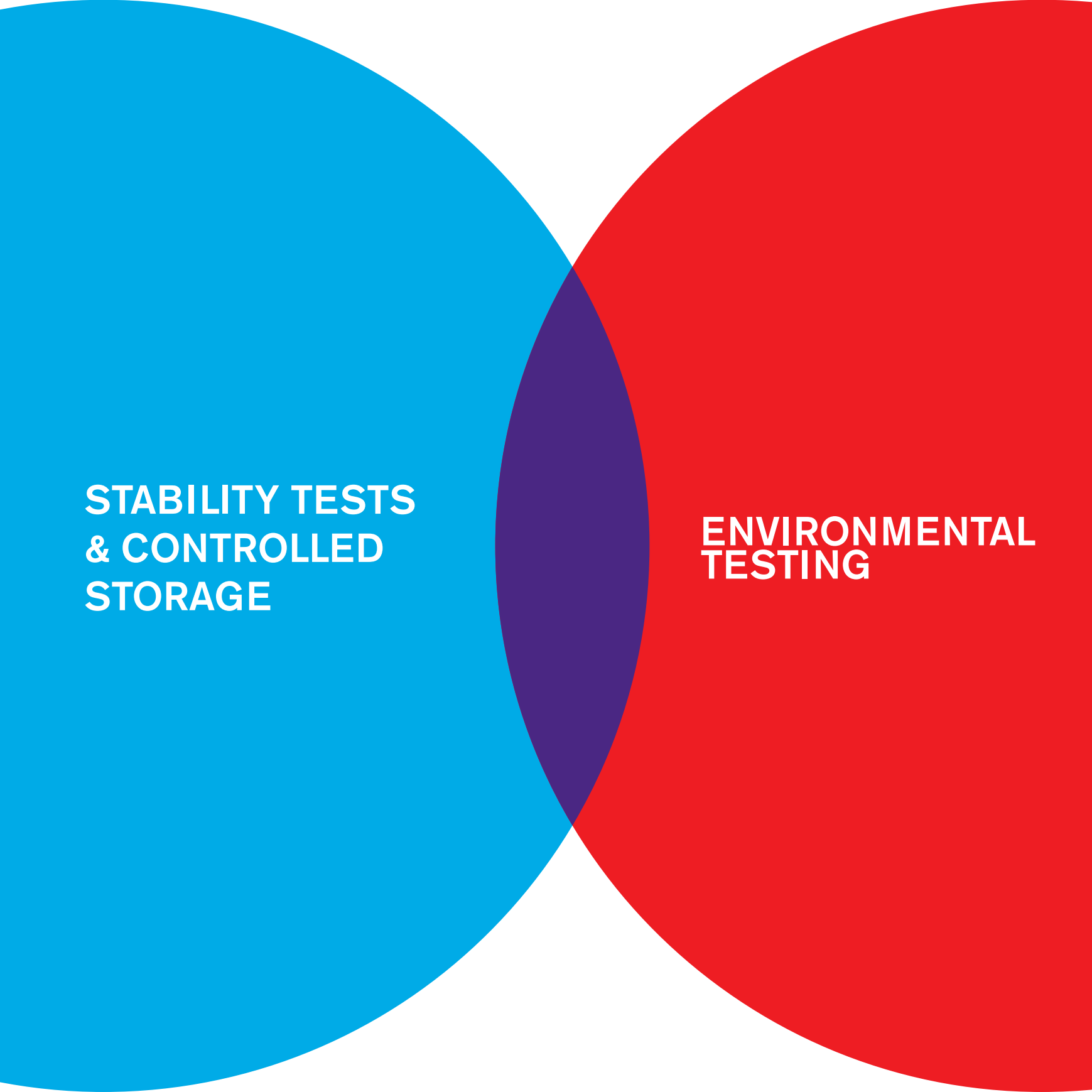


ENVIRONMENTAL TESTING

3M
Abaco Systems Ltd.
AKWEL
Alcatel
Alenia Aeronautica
Aspock
Bosch Thermotechnik GmbH
Brose
Chell Instruments Ltd.
Cofat
Coficab
IDIADA
Concurrent Technologies
CTAG
Faurecia
GM
HUF
Huawei Technologies
Johnson Controls
Kathrein Automotive
Nypro Limited
Nokia Siemens Networks
Pusterla 1880
SEAT
Schneider Electric
Siemens, S.A
TRW
Tyco Electronics
Valeo Vision Systems
Volvo



BIOTECH &
PLANT GROWTH



A Venn diagram consisting of two overlapping circles. The left circle is blue and contains the text 'STABILITY TESTS & CONTROLLED STORAGE'. The right circle is red and contains the text 'ENVIRONMENTAL TESTING'. The intersection of the two circles is shaded in a dark purple color.

**STABILITY TESTS
& CONTROLLED
STORAGE**

**ENVIRONMENTAL
TESTING**

BIOTECH

BIOTECH & PLANT GROWTH



- Plant Growth and Tissue Culture



- Arabidopsis Research

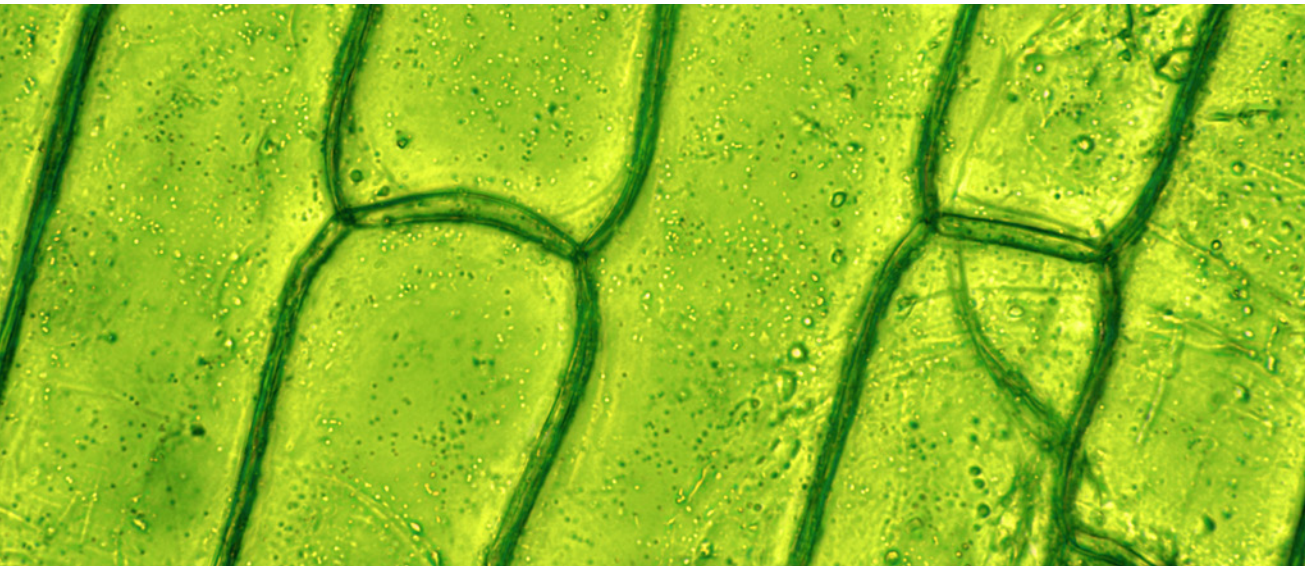


- Insectaries and Drosophila

- Seed storage and germination

- Agro Research and Industry

- Crop Sciences and other life sciences applications





“Any equipment and brand has failures. A week of breakdown in my field means losing 8 months of work. Aralab shows up on the same day or the following and solves the problem, even if it means improvising a solution with any available tools at hand. They can do it!”

José Ramalho, PhD
Researcher, ISA

Dimensions and Volume	Ranging from small 600L reach-in chambers to bespoke walk-in Controlled Environment Rooms.
Models / Versions	All models with or without Humidity Control; Versions with Single or multi-tier growth modules, suitable for small, medium or tall plants; Vertical lights available for tissue culture and insect rearing.
Temperature range (extended ranges available)	From -5°C to +45°C +/- 1°C uniformity
Humidity range (extended ranges optional)	40% to 95%rH +/-2%rH uniformity
Light intensities	Options ranging from up to 300umoles/m2/s at 150mm to +1.000umoles/m2/s at 1.000mm distance.
Light types	LEDs and Fluorescents with Cool-white, Warm-white, or customized spectral options.





COMMON ACCESSORIES

- CO₂ control
- Integrated Quantum Light meter
- LEDs with multiple spectral options
- Negative temperature ranges
- HEPA filtration
- Positive / Negative pressure
- Drying chambers
- Vertical LED chambers
- Dewing simulation
- Automatic irrigation
- Hydroponic systems
- FitoLog Software pack



“I’ve been using Aralab stability chambers for 30 years now. Previous brand? I can remember the breakdown, but can not remember the name. Aralab technical team went to my lab and fixed it even though it was not their chamber. That is how I met them”

Isabel Lemos
QA and QC manager, Edol





STABILITY

STABILITY TESTS
AND CONTROLLED STORAGE



• Pharmaceuticals



• Cosmetics



• Food and Beverages

• Quality Control

• Controlled Storage facilities



Dimensions and Volume	Ranging from small 600L reach-in chambers to bespoke walk-in Controlled Environment Rooms.
Models / Versions	All models with or without Humidity Control; One photostability Testing reach-in chamber (for ICH Q1B testing).
Temperature range (extended ranges available)	From -5°C to +60°C +/- 1°C uniformity
Humidity range (extended ranges optional)	40% to 95%rH +/-2%rH uniformity
Storage and shelving	Modular and height adjustable solutions allowing storages of small cases to big footprint volumes.





COMMON ACCESSORIES

FitoLog software with FDA 21 CFR part 11 and GAMP5 certification

Additional temperature and humidity sensors for internal mapping

IQOQPQ documentation

Extended temperature and humidity ranges

Extra Drying capacity

Reinforced shelves for extra weight-load

TESTING

ENVIRONMENTAL TESTS



- Environmental and Temperature testing;



- Freeze / Thaw Cycles;



- Solar Module Testing;

- Metrology and Calibrations;

- Vibration testing

- Radiation Aging;

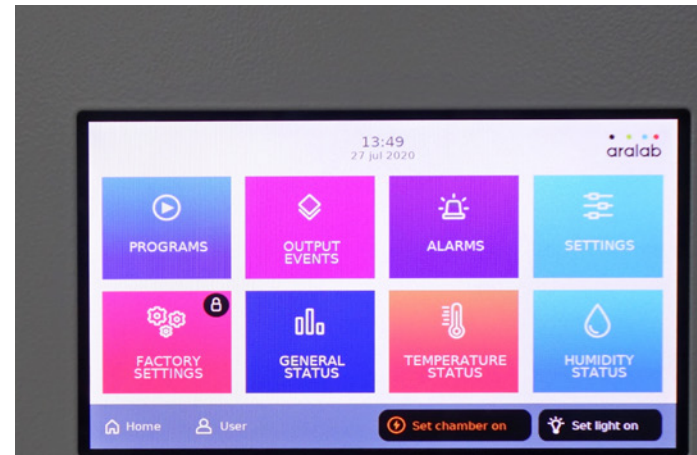
- Curing

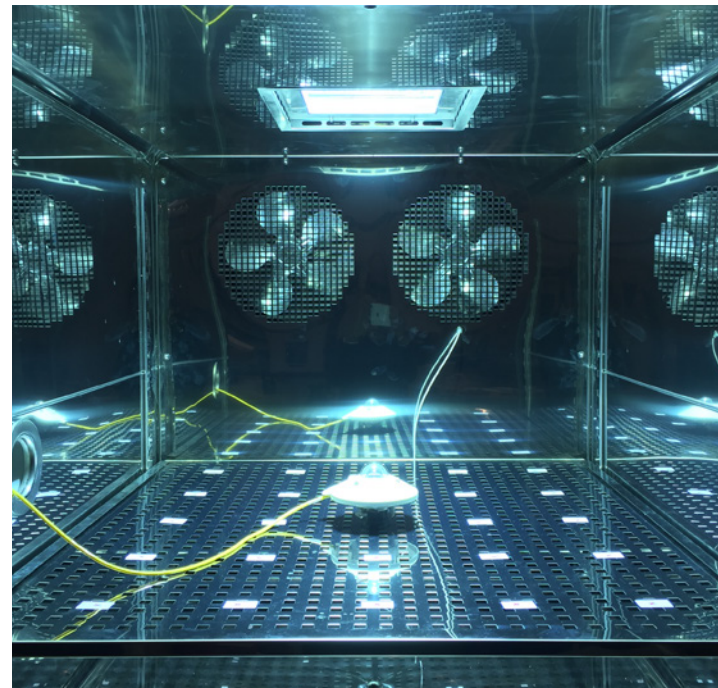
- Building Materials



“We do not sell just to make another sale. We don’t sell anything without understanding first what the customer really needs.”

Alberto Araújo
International Sales Manager





Dimensions and Volume

Ranging from small 35L benchtop chambers to 2.000L reach-in chambers
Bespoke walk-in Environmental Rooms.

Models / Versions

All models with or without Humidity Control;
A multitude of options to comply with several testing standard (radiation, vibration, thermal cycling, curing, etc).

Temperature range (ranges are model dependent)

From -75°C, -45°C or -20°C to +180°C
+/- 1°C uniformity

Humidity range (ranges are model dependent)

10% to 98%rH
+/-2%rH uniformity

Temperature rates of change (cooling and heating)

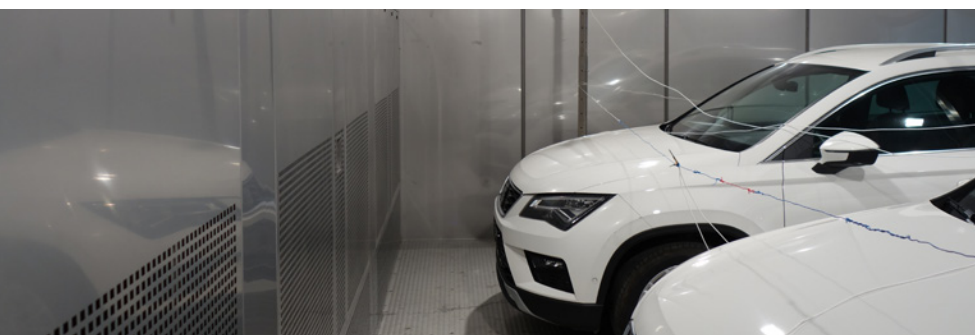
Solutions from 2K to 10K/minute.



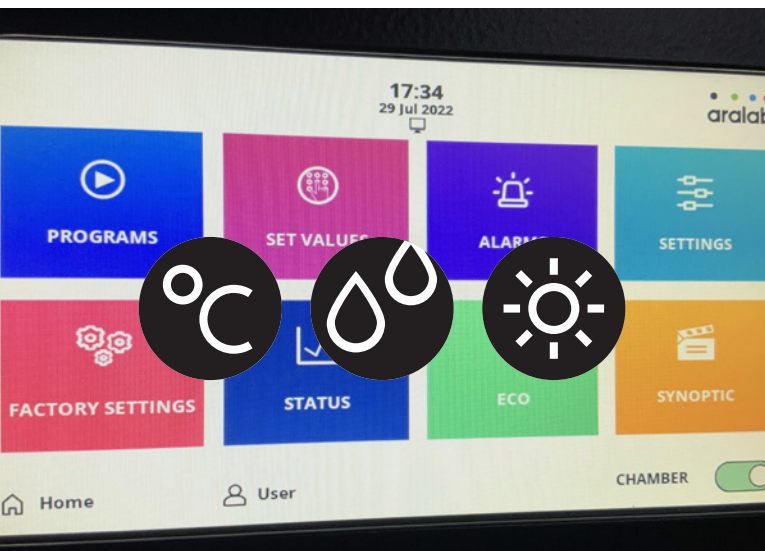


COMMON ACCESSORIES

- Cooling and Heating rate upgrades
- Additional shelves or special racks
- Water or air-cooled condensers
- Safety magnetic door locks
- Integrated water supply tank for humidity generator
- Multi-glazed anti condensation observation windows
- ATEX safety
- EUCAR hazard protection

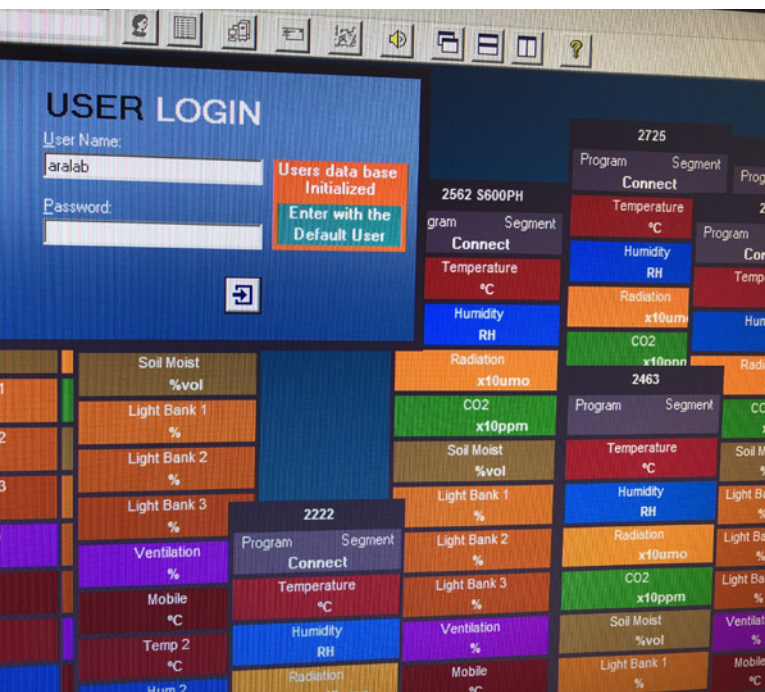
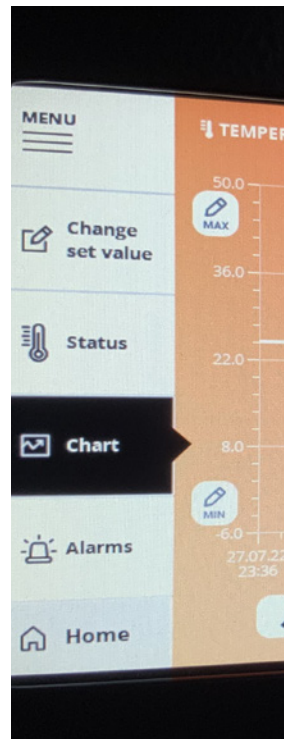


Monitor and manage. Control the environment



"Some customers choose our chambers because they had problems with the previous equipment they were using. When they start using our chambers they say 'this is so much better than we thought'."

Javier Garcia
Aralab Spain





CLIMAPLUS CONTROLLERS

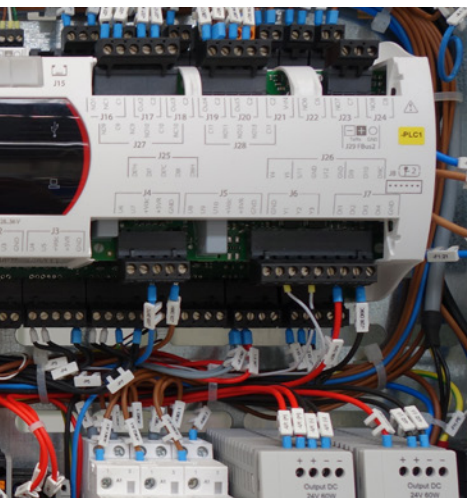
All **Aralab** chambers are equipped with a ClimaPlus controller. This equipment is specially created by **Aralab** and uses dual microprocessor technology for controlling, monitoring and registering all operating data.

- Programmable PLC ClimaPlus
- Real-time monitoring of all functions and control of equipment
- Configuration and management of multiple testing programs, each with multiple segments
- Non-volatile memory
- 0,1°C temperature resolution
- 0,1% HR humidity resolution
- Management, monitoring and recording of all alarms
- Possibility of performing specific testing conditions by external commands
- Possibility of programming a delay of the beginning of test
- Automatic restart of tests due to power failure, without losing data and restarting test where it was interrupted
- Different outputs for connecting computers and other devices
- Graphical visualization of the test in the controller
- Password protection of controller functions.

MONITORING AND VISUALIZATION SOFTWARE

The **FitoLog** software is a set of applications designed to monitor and register data from the chambers processes variables for the pharmaceutical industry. This software - an **Aralab** exclusive solution - consists of 3 applications: **FitoLog**, **FitoLogView** and **FitoProgram**.

- **FitoLog**: Displays and records in real time all data and details of the measures and respective set-points in a file, with a pre-determined time interval. It also acquires the data of process variables, errors, alarms and allows external alerts configurations which may include Email or SMS to report the condition of the equipment or warning of alarm conditions.
- **FitoLogView**: It is a working tool to process the data acquired by FitoLog. You can view, print and export to other file types, and analyze the data in other programs (Excel, Access or others).
- **FitoProgram**: This application allows the designing of test programs and its integration on the chamber controller.



**Global Presence,
with Local Distributors
in +60 countries.**






YOUR OWN CLIMATE Our main goal

Let's meet!

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1. Portugal, Spain, France, Italy, UK, Ireland, Germany, Belgium, Austria, Netherlands, Croatia, Hungary, Greece, Malta, Cyprus, Denmark, Estonia, Romania, Russia, Czech Republic, Finland, Switzerland, Norway, Sweden, Poland, Serbia, Slovakia, Latvia and Lithuania
2. USA and Canada
3. Argentina, Chile, Uruguay, Mexico, Colombia, Peru and Ecuador
4. Morocco, Egypt, Algeria and Tunisia
5. South Africa
6. Turkey, Jordan, Israel, India, Iran, Bangladesh, UAE, China, Qatar, Saudi Arabia, Lebanon, Indonesia, Singapore, Thailand South Korea and Vietnam
7. Australia and New Zealand

