

# Temperature Project



## ARGO LAB

After many years in the Italian market and with a big experience in heating system for laboratory with high performance instruments, we decided to introduce new instruments more simple with lower price and less power consumptions.

Instruments for everyday use, more efficient and more environment friendly, able to contrast the effects of the crisis and ensure the necessary savings of environmental and economic resources.

We present thus the new line of ovens and incubators **ARGO LAB**, faithful companions in your laboratory for a modern challenge of sustainable progress.



### We do not want to forget these words!

**“We didn’t inherit the Earth on which we live from our ancestors, but we borrow it from our children.”**

These words, taken from a speech of Chief Indian tribe Seattle, are one of the more used citations in field of ecology, but despite being mentioned more and more often, with the same easiness and frequency it is forgot.

**We do not want to forget these words!**

It’s now clear to all that we have to work globally to repair the damage that our planet is suffering and continues to suffer since too many years and it’s a common responsibility pursuit a sustainable development.

The crisis that pervades for years all the economic sectors should not be an obstacle, but rather constitutes a stimulus for research, technological innovation, development of industrial processes and quality of products.

Efficiency, low energy consumptions and precise control of temperature, these are the key characteristics of the new ovens and incubators ArgoLab.

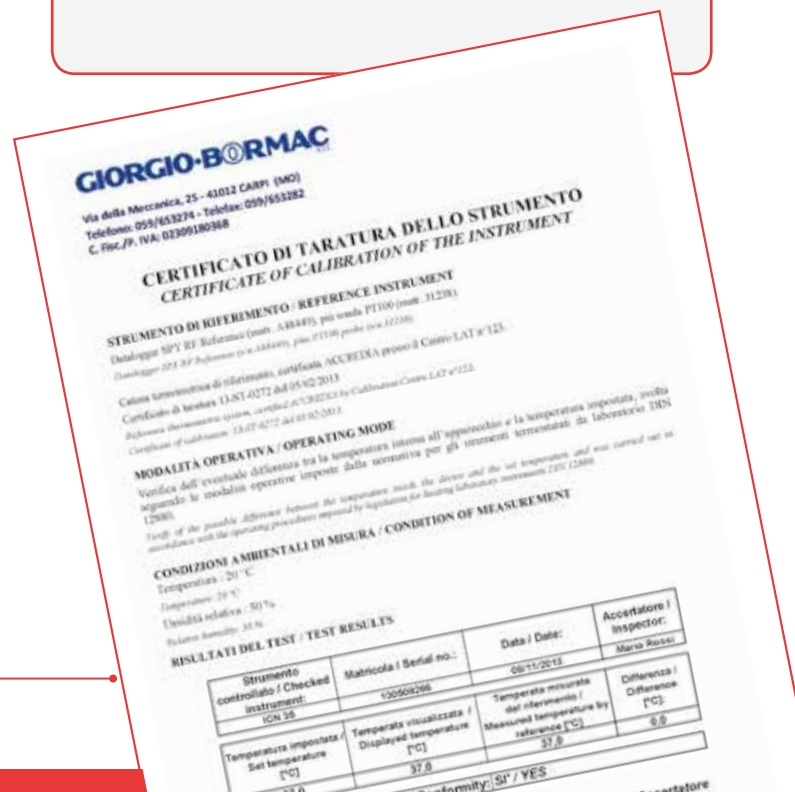
### Single test for each instrument

All the ovens and incubators ArgoLab are supplied with calibration report executed by instrument Accredia certificated.

The incubators are tested at 37 °C, the ovens at 150 °C.



The PT100 probe installed inside the chamber ensures a precise control of the temperature. However all the instruments are provided with a pass through hole diameter of 5 mm in order to install inside the chamber one or more probes for checking the temperature.



## New controllers for each application

**Basic** and **Professional**, the new versions of the **ARGO LAB** line regulators, allow an easy setting of all operating parameters and an optimal temperature control.

The large backlit display clearly shows in every moment the temperature set and that one inside as well as other parameters.

The introduction of user friendly icons makes interpretation of the functions and commands extremely intuitive. Moreover the limited number of adjustment keys ensures operability very simple and intuitive.

**ARGO LAB** new controllers, user friendly interface for each application!

### Basic



- Wide backlit LCD display
- Icons easy to read
- Timer and continuous function
- Visual and sound alarm
- Fan speed control (High, Medium, Low)
- Delay of starting
- Safety temperature limiter for samples protection

### Professional



- **7 programs x 10 steps**
- Wide backlit LCD display
- Icons easy to read
- Visual and sound alarm
- Fan speed control (High, Medium, Low)
- **Repeatable work cycles**
- Delay of program starting
- Safety temperature limiter for samples protection



### Safety class 3.1 (refer to normative DIN 12880)

Double safety switch. In case of exceeding of the set temperature with the primary switch, the safety control of the temperature is carried out by the secondary one, which operates at a variable temperature slightly higher than that of work. A further upper limit is controlled by a switch with fluid expansion.



- 1 Maximum temperature limit with fluid expansion adjustable controller
- 2 Maximum settable temperature
- 3 Maximum settable work temperature (Setting Menu)
- 4 Set temperature
- 5 Safety range (+10 °C)
- 6 Current temperature

# Temperature and humidity

Operation range: 10 °C ÷ 70 °C / 40 ÷ 95 % RH

CH 150 - CH 250



CLIMATIC CHAMBERS



CH 150

The climatic chamber Argolab is the ideal instrument to do stability and aging test on materials, simulation of environmental conditions and stress test in several fields such as: industry, food, textile, packaging, rubber/plastics, etc.

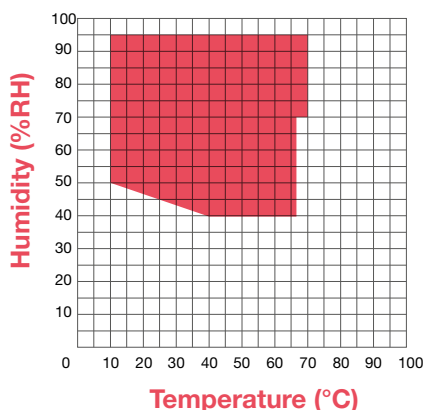
Thanks to the digital control by PID regulator of the temperature and of the humidity percentage, it's possible simulate many environmental situations and use of materials, and moreover test the forced aging effects.

The external steel door is equipped of a wide glass window that permits the observation of the materials during test .

The stainless steel chamber with rounded corners, the shelves and their fixing system completely removable, make the chamber perfectly cleanable and sanificable.

The standard supplied side through hole of 25 mm diameter allows to install probes inside the chamber.

Digital backlit alphanumeric LCD screen. Digital timer, clock and date for GLP functions. Standard supplied mini printer for operating and set parameters output. Safety class 3.1 with double digital limiter of temperature and additional fluid expansion limiter



Temperature-humidity working range



External water tank for humidity generator, supplied as standard



Side through hole of 25 mm diameter to install probes inside the chamber

Climatic chambers	CH 150	CH 250
Usable volume	<b>150 liters</b>	<b>250 liters</b>
Temperature range	-10 ~ 85 °C (without humidity) +10 ~ 70 °C (with humidity)	-10 ~ 85 °C (without humidity) +10 ~ 70 °C (with humidity)
Resolution	0,1 °C	0,1 °C
Temperature homogeneity in the chamber	± 0,5 °C (without humidity) ± 1,5 °C (10 ÷ 70 °C / 40 ÷ 95% RH)	± 0,5 °C (without humidity) ± 1,5 °C (10 ÷ 70 °C / 40 ÷ 95% RH)
Temperature variation on a point	± 0,2 °C (without humidity) ± 0,5 °C (10 ÷ 70 °C / 40 ÷ 95% RH)	± 0,2 °C (without humidity) ± 0,5 °C (10 ÷ 70 °C / 40 ÷ 95% RH)
Humidity range	40 % ~ 95 %	40 % ~ 95 %
Humidity variation on a point	≤ 2% RH (10 ÷ 70 °C / 40 ÷ 95% RH)	≤ 2% RH (10 ÷ 70 °C / 40 ÷ 95% RH)
Timer / Programs	Continuous mode Programs 1-100 step	Continuous mode Programs 1-100 step
Safety class	3.1	3.1
Power supply / Nominal wattage	230 V / 2200 W	230 V / 2200 W
Internal dimensions (W x H x D)	550x 670 x 405 mm	600 x 830 x 500 mm
Number of shelves (standard/max)	3/10	3/12
Useful min. distance between shelves	45 mm	45 mm
External dimensions (W x H x D)	690 x 1520 x 790 mm	740 x 1680 x 885 mm
External water tank dimensions (W x H x D)	370 x 340 x 560 mm	370 x 340 x 560 mm
Weight	145 kg	185 kg
Part number	<b>41101412</b>	<b>41101422</b>



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