

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.

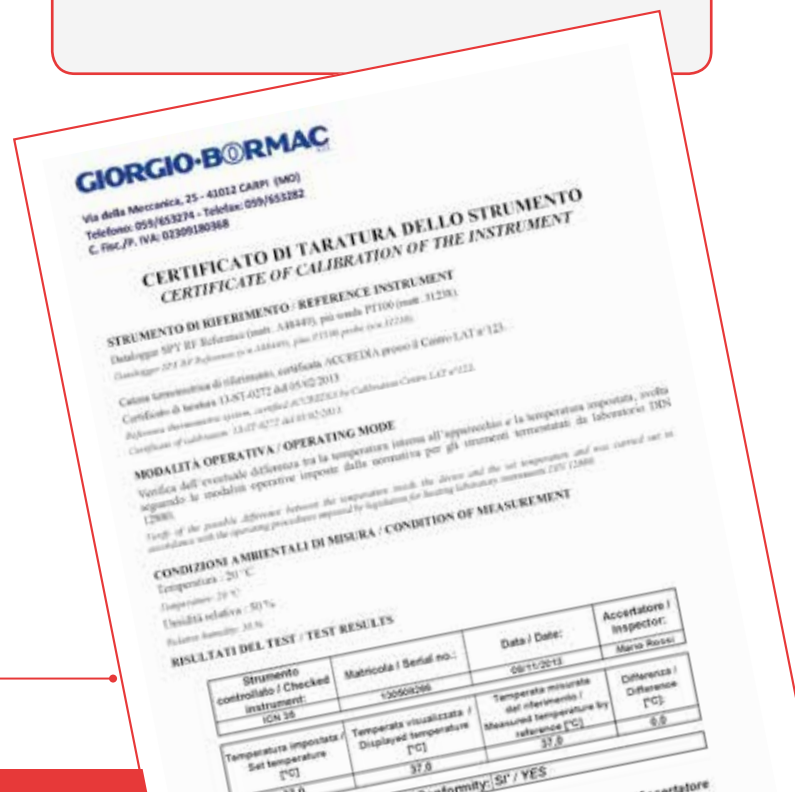
Single test for each instrument

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

Natural convection oven

from +5 °C over room temperature to +300 °C

TCN 30 - TCN 50 - TCN 115 - TCN 200



OVENS



Ideal for everyday use in the processes of drying and sterilization, the natural convection ovens Argolab are characterized by a high load capacity and by the accuracy in temperature control.

The possibility to heat the samples up to 300 °C allows any type of sterilization process.

The minimum heating times, the heating power properly dimensioned and the perfect tightness of the seals, ensure low energy consumption in every application.



Wheels for ICN 200, TCN 200, TCF 200, TCF 400.



Holed platform applicable to wire shelves for TCN and TCF models

Part n.	Description
41100192	Holed platform for TCN 30
41100152	Holed platform for TCN 50 / TCF 50
41100162	Holed platform for TCN 115 / TCF 120
41100172	Holed platform for TCN 200 / TCF 200
41100182	Holed platform for TCF 400
41101172	Wheels for ICN 200, TCN 200, TCF 200, TCF 400. Set of 4 pieces

The door seal ensures a perfect sealing even at highest temperatures. The heat losses are thus reduced to a minimum enabling efficient heating cycle.

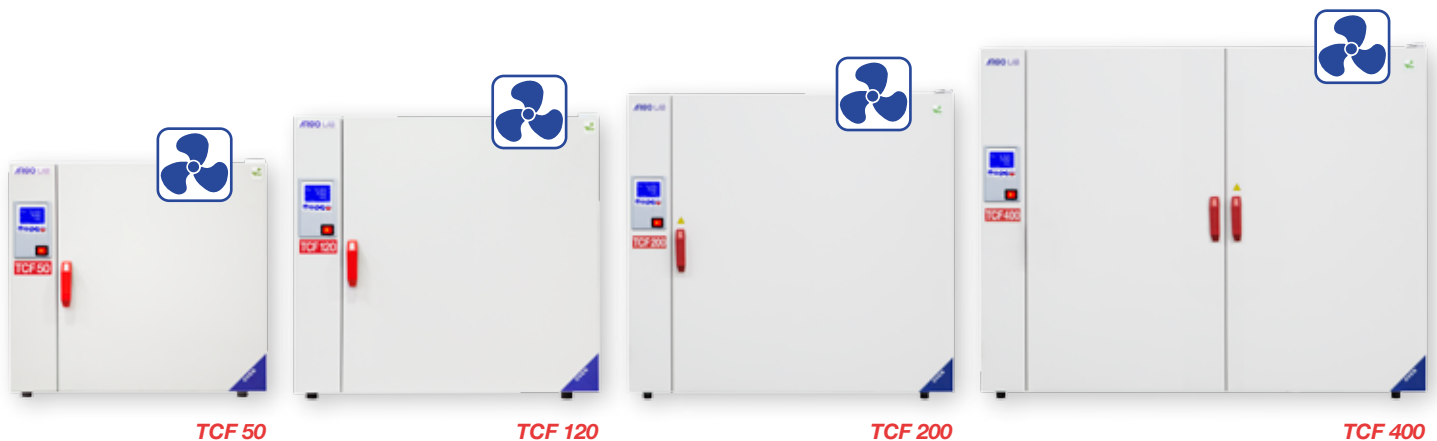
Natural convection ovens	TCN 30	TCN 50	TCN 115	TCN 200
Usable volume	30 liters	50 liters	115 liters	200 liters
Max temperature / Resolution	+200 / 0,1 °C	+300 / 0,1 °C	+300 / 0,1 °C	+300 / 0,1 °C
Temperature homogeneity at 150 °C	± 3,5 °C	± 3,5 °C	± 3,5 °C	± 4,0 °C
Temperature variation at 150 °C	± 0,5 °C	± 0,5 °C	± 0,5 °C	± 0,7 °C
Heating up time at 150 °C	14 min.	16 min.	18 min.	20 min.
Timer	99:59 hh:min and ∞	99:59 hh:min and ∞	99:59 hh:min and ∞	99:59 hh:min and ∞
Safety class	3.1	3.1	3.1	3.1
Power supply / Nominal wattage	230 V / 700 W	230 V / 1000 W	230 V / 1900 W	230 V / 2100 W
Internal dimensions (W x H x D)	320 x 320 x 285 mm	400 x 420 x 330 mm	520 x 495 x 450 mm	650 x 640 x 495 mm
Number of shelves (standard/max)	2/3	2/5	2/6	2/9
Useful min. distance between shelves	50 mm	50 mm	50 mm	50 mm
Max load for shelf	10 kg	15 kg	20 kg	20 kg
External dimensions (W x H x D)	460 x 685 x 530 mm	665 x 635 x 470 mm	790 x 750 x 600 mm	915 x 905 x 660 mm
Weight	40 kg	53 kg	74 kg	103 kg
Part number - BASIC version	41100062	41100002	41100012	41100022
Part number - PROFESSIONAL version	-	41100312	41100322	41100332



Forced air ovens

from +10 °C over room temperature to +300 °C

TCF 50 - TCF 120 - TCF 200 - TCF 400



The forced air ovens TCF 50, TCF 120, TCF 200, TCF 400 control very efficiently the temperature starting from 10 °C above ambient temperature up to 300 °C.

The PID controller, with wide backlit color display, clearly shows in every moment the temperature set and that one inside as well as other parameters.

The forced air circulation, adjustable in three levels (High, Medium, Low), guarantees a perfect air replacement and homogeneity of temperature in every parts of the chamber. A through hole of 5 mm diameter supplied as standard on the top side of the oven permits to introduce an external probe for the check of temperature or certification of the instrument.



The wire shelves with no overturning system and their fixing devices completely removable permit a very easy cleaning of the internal walls of the chamber.

Forced air ovens	TCF 50	TCF 120	TCF 200	TCF 400
Usable volume	50 liters	120 liters	200 liters	400 liters
Max temperature / Resolution	+300 / 0,1 °C	+300 / 0,1 °C	+300 / 0,1 °C	+300 / 0,1 °C
Temperature homogeneity at 150 °C	± 2 %	± 2 %	± 2 %	± 2 %
Temperature variation at 150 °C	± 0,3 °C	± 0,3 °C	± 0,4 °C	± 0,5 °C
Heating up time at 150 °C	20 min.	24 min.	30 min.	50 min.
Timer	99:59 hh:min and ∞	99:59 hh:min and ∞	99:59 hh:min and ∞	99:59 hh:min and ∞
Safety class	3.1	3.1	3.1	3.1
Power supply / Nominal wattage	230 V / 980 W	230 V / 1900 W	230 V / 2400 W	230 V / 3200 W
Internal dimensions (W x H x D)	400 x 415 x 310 mm	520 x 530 x 435 mm	645 x 650 x 495 mm	1000 x 800 x 500 mm
Number of shelves (standard/max)	2/5	2/7	2/9	2/10
Useful min. distance between shelves	50 mm	50 mm	50 mm	50 mm
Max load for shelf	15 kg	20 kg	20 kg	20 kg
External dimensions (W x H x D)	665 x 635 x 570 mm	785 x 750 x 690 mm	920 x 870 x 755 mm	1260 x 1060 x 750 mm
Weight	54 kg	74 kg	103 kg	160 kg
Part number - BASIC version	41100202	41100212	41100222	41100232
Part number - PROFESSIONAL version	41100402	41100412	41100422	41100432



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