



## Natural convection incubators

from +5 °C over room temperature to +70 °C



The organic materials used in the typical laboratory applications require a constant and gentle heating. The temperature distribution in the incubators Argolab is obtained without forced air circulation but using only the natural convection, which does not stress the sample and allows its uniform growth.

The wide door glass window allows a constant check of the status of the samples inside the chamber without opening the door, thereby avoiding unnecessary heat loss and temperature changes.

Natural convection incubators	ICN 16	ICN 35	ICN 55
Usable volume	<b>16 liters</b>	<b>35 liters</b>	<b>55 liters</b>
Max temperature / Resolution	+70 / 0,1 °C	+70 / 0,1 °C	+70 / 0,1 °C
Temperature homogeneity at 37 °C	± 0,4 °C	± 0,4 °C	± 0,5 °C
Temperature variation at 37 °C	± 0,3 °C	± 0,3 °C	± 0,3 °C
Heating up time at 37 °C	18 min.	22 min.	25 min.
Timer	99:59 hh:min and ∞	99:59 hh:min and ∞	99:59 hh:min and ∞
Safety class	2	2	2
Power supply / Nominal wattage	230 V / <b>85 W</b>	230 V / <b>125 W</b>	230 V / <b>250 W</b>
Internal dimensions (W x H x D)	270x 230 x 255 mm	360 x 300 x 320 mm	400x 360 x 385 mm
Number of shelves (standard/max)	2/6	2/6	2/5
Useful min. distance between shelves	25 mm	30 mm	50 mm
Max load for shelf	5 kg	7,5 kg	10 kg
External dimensions (W x H x D)	505 x 370 x 400 mm	595 x 440 x 460 mm	635 x 500 x 545 mm
Weight	23 kg	33 kg	42 kg
Part number - <b>BASIC</b> version	<b>41101002</b>	<b>41101012</b>	<b>41101022</b>
Part number - <b>PROFESSIONAL</b> version	<b>41101202</b>	<b>41101212</b>	<b>41101222</b>



Overlapping incubators



For a better uniformity of the temperature, the wireheating system is positioned on all the internal walls of the chamber.

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ICN 120 - ICN 200



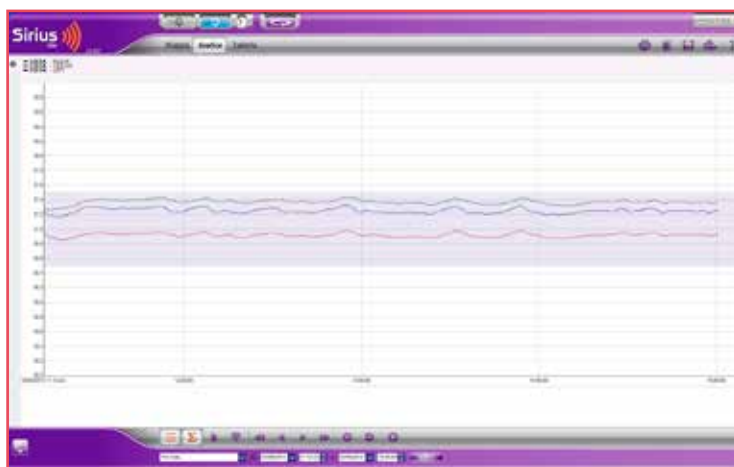
Incubators Argolab of greater volume, thanks to the optimal placing of the heating elements, ensure high performance in homogeneity and stability of temperature and the proper incubation of the samples.

The difference from the smaller models is the presence of the double door, with the inner glass full-width, which ensures a perfect observation of the samples in the chamber without unnecessary heat losses.

Natural convection incubators	ICN 120	ICN 200
Usable volume	<b>120 liters</b>	<b>200 liters</b>
Max temperature / Resolution	+70 / 0,1 °C	+70 / 0,1 °C
Temperature homogeneity at 37 °C	± 0,5 °C	± 0,5 °C
Temperature variation at 37 °C	± 0,3 °C	± 0,3 °C
Heating up time at 37 °C	30 min.	35 min.
Timer	99:59 hh:min and ∞	99:59 hh:min and ∞
Safety class	2	2
Power supply / Nominal wattage	230 V / <b>350 W</b>	230 V / <b>600 W</b>
Internal dimensions (W x H x D)	520 x 460 x 500 mm	610 x 600 x 575 mm
Number of shelves (standard/max)	2/7	2/9
Useful min. distance between shelves	50 mm	50 mm
Max load for shelf	10 kg	10 kg
External dimensions (W x H x D)	755 x 610 x 645 mm	850 x 755 x 710 mm
Weight	61 kg	77 kg
Part number - <b>BASIC</b> version	<b>41101032</b>	<b>41101042</b>
Part number - <b>PROFESSIONAL</b> version	<b>41101232</b>	<b>41101242</b>



Internal glass door



Graphic example of the stability and homogeneity of the temperature in the incubator ICN16. It was obtained positioning three PT 100 probes equidistant on the shelf at the centre of the chamber



## Basic Version



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

## Professional Version

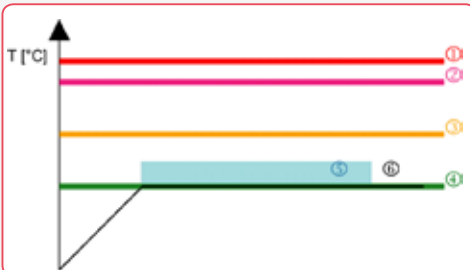


- **7 programs x 10 steps**
- Wide backlit LCD display
- Icons easy to read
- Visual and sound alarm
- Fan speed control (High, Medium, Low)
- **Repeatable work cycles**
- Delay of program starting
- Safety temperature limiter for samples protection



### 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 to 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