

# Laboratory Incubator

Lab Incubator

Battery Back Up

GMDN code 35482

## Intended use:

A device heated by electrical currents passing through a heating block containing simple resistors for the purpose of growing micro-organisms and cells that required oxygen for growth. Aerobic incubators are typically used for serology and crystallization studies, tissue culture works, paraffin embedding and in vitro fertilization.

## Technical Data:

- Heavy-duty glass fiber insulation sustains to prevent the heat loss and maximize energized efficiency.
- Double wall of exterior steel treated by powder coating ensuring scratch free and corrosion free.
- The height of stainless steel mesh shelf is adjustable
- A tempered glass window on front door is easy for monitoring specimens, which does not required to open the outer door so as to prevent from the disturbing the samples



IN-010

Stainless steel (Option)



IN-601

IN-601 (Digital)

## Specifications:

Model		IN-601 (Analog)						IN-601 (Digital)						IN-010 (Microprocessor)					
Capacity	Liters	16	34	53	75	90	110	16	34	53	75	90	110	16	36	57	75	90	110
	Wattage	350	350	350	350	500	500	350	500	500	500	750	750	350	500	500	500	750	750
Chamber		Stainless steel SUS#304						Stainless steel SUS#304											
Temperature range		Ambient + 5°C to 75°C						Ambient + 5°C to 75°C (Adjustable)											
Control system control		Analog						Microprocessor PID controlled system											
Temperature display		Mercurial thermometer						Digital LED											
Sensor		Hydraulic expanded						PT-100											
Standard Accessory		2 stainless steel shelves						2 stainless steel shelves, interval is adjustable											
Timer		Mechanical, 180min + HOLD						Mechanical, 180min + HOLD						Digital, 99hr. 59min + HOLD					
Temperature setting/Display		Analog / Thermometer						Digital LED						Digital LED					
Temperature uniformity		±4°C at 37°C						±2°C at 37°C						±2°C at 37°C					
Temperature stability		±3°C at 37°C						±0.1°C at 37°C						±0.1°C at 37°C					
Resolution		1°C						0.1°C						0.1°C					
Over-heat alarm & shutout		Yes, At 80°C						Yes, 4°C above the set point						Yes, 4°C above the set point					
Air convection		Natural convection						Forced convection						Forced convection by fan					
Air vent		Yes,						Yes						Yes					
Quality standard		ISO, CE, GMP, FDA, Japan						ISO, CE, GMP, FDA, Japan						ISO, CE, GMP, FDA, Japan					

- All measurements are approximate, the allowance is acceptable.
- Other capacities are available subject to the minimum quantity up to 5 units, such as 150L, 200L, 250L etc.

## ● Programmable memory: (IN-010)

In case of power failure, the built-in battery CMOS #CR2032 can activate and store the preset temperature and passed time.

Once power supply resumed, the temperature starts to heating and stabilize at the preset point, then Timer starts to count down the remaining time.

User does not need to reset the temperature and timer, not need to press 'ON' or any other buttons.

Equipment will activate to work automatically.

## IN-010 (IN-601 Digital) (Microprocessor control):

- Function preheating with timer working only when the actual temperature at 2°C below set point.
- Safety devices:
  - Over temperature alarm and shutout device to 4°C above the set point.
  - Sophisticated design to shut off power protecting sterilizer from excessive heating at 75°C if primary control fails.
  - Audible & visible alarm indicated by indicator.
  - Timer stop counting when PV is 5°C below SV after stabilization if door is opened, the memory will store the past time and start to count when the PV value returns to 2°C below SV.

**IN-601** is designed when the cost is the major consideration to the users. Natural convection is used when the accurate temperature control and uniformity are not critical important to users and your samples can't be disturbed by air current.