

## COOLING INCUBATOR (5°C to 70°C)

**elte Vertical Cooling Incubators** are used for maintaining and monitoring the temperature between 5°C to 70°C consistently. Predominantly these incubators used for storing pharmaceutical supplies, biology, zoology & biotech samples and other temperature sensitive specimens at a steady temperature. There are 10 different models based on the volume and user convenience.

### Salient Features :

The outer body has a robust construction of 1 mm thick mild steel with epoxy powder coating whereas the inner chamber is made of corrosion resistant 1 mm thick Stainless Steel 304 Grade. An ergonomic outer door with lock and key is provided in order to prevent unauthorized access. There is also a provision of an inner transparent door with latches for easy display of materials kept inside the incubator. Sturdy castor wheels are fixed at the bottom for mobility of the unit with ease. Stainless Steel shelves are provided. Drain condensate outlet also available in order to drain of condensed water from the bottom of the chamber. Magnetic door gasket ensures complete sealing of the main door.



The cooling incubator runs on standard 230 V AC Single Phase 50 Hz power supply. A MCB is present for better electrical safety. Microcontroller based graphic LCD display is provided for easy visibility of internal temperature from a distance. The control panel is placed at an easily accessible height for operation. The controller has a readability as well as set temperature increments of 0.1 °C. Audio as well as visual alarms are indicated whenever there is large variation in set temperature, sensor failure, door kept open, etc. Interior chamber LED lighting gets activated automatically when the door is opened and turns off when the door is closed. The User Interface is password protected in order to prevent parameter tampering.

Eco-friendly refrigeration system comprises of a low noise highly efficient heavy duty hermetically sealed compressor. The powerful refrigeration system works in tandem with the heating system to ensure temperature stability even in high external ambient conditions. It uses an environmentally friendly HFC refrigerant gas R-134 A which is CFC and HCFC free. The high-density PUF insulation helps to maintain the interior temperature even when there is ambient temperature variation. PT 100 sensor is used for accurate temperature feedback of the inner chamber. Safety thermostat is available in order to prevent overheating. Maintenance free blower fans enable forced air circulation in order to achieve uniform temperature distribution and maintain vital operational temperature between 5°C to 70°C inside the chamber. The blower fans turn off when the door is opened to avoid loss of chilled air blowing out of the unit. Provision of hot line reduces the condensation on the outer door openings.

### Technical Specification :

MODEL NO.	ECI-100	ECI-200	ECI-300	ECI-400	ECI-500	ECI-600	ECI-700	ECI-800	ECI-900	ECI-1000
Inner Size (mm)	450x450x500	500x450x900	550x500x1100	600x560x1200	600x700x1200	650x750x1250	700x750x1350	1100x600x1250	1100x700x1250	1100x750x1250
External Size(mm)	600x700x920	650x700x1320	700x750x1550	750x800x1670	750x960x1670	800x1000x1670	850x1075x1970	1260x950x1900	1260x1050x1900	1260x1100x2000
Accuracy	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C	±0.5/0.2°C
Volume	100 Ltrs	200 Ltrs	300 Ltrs	400 Ltrs	500 Ltrs	600 Ltrs	700 Ltrs	800 Ltrs	900 Ltrs	1000 Ltrs
No. of Shelves	3	3	4	5	5	6	6	7	8	8
No. of Chamber Blowers	1 Axial	2 Axial	2 Axial	2 Motors	2 Motors	2 Motors	2 Motors	2 Motors	2 Motors	2 Motors