

Cooling Incubators



The REMI Cooling Incubators are designed for applications in pharmaceutical, microbiology, biotechnology, chemical & research labs. These chambers are used for culture of bacteria, microorganism, tissue culture, incubation, immunological work & storage of vaccines etc.

These incubators are available in standard & GMP versions.

Performance

- Temperature range 5°C to 60°C
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Heating by long life SS tubular heaters
- Validation protocol with IQ, OQ, PQ Documentation as per ICH guidelines

Leading Technology

- Machine filled PUF insulation to eliminate void pockets
- Unique design of thermal barrier for better energy efficiency
- Hermetically sealed Compressor with CFC free refrigerant
- Microprocessor controller with LED display
- Sensor failure alarm

User Friendly

- Digital LED display of Temperature with set, process value & audio visual alarm
- Chamber calibration port on side
- Adjustable trays
- Chamber illumination by UV and / or Fluorescent tubes (Optional)
- 24 hours Cyclic timer for regulating illumination conditions (Optional)
- Data logger for 8 Point temperature recording with sensor, printer interface and software (Optional)
- **Also available 4" LCD version with additional features (Details overleaf)**

Safety

- High temperature safety cut off & alarms for high / low set parameters
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor

Additional Features for LCD version:-

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Power failure and resumption recorded with date and time
- Settable High / low alarm points with date and time
- Memory for storage of up to 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment/ output for remote alarm
- PC communication through RS-485 with data acquisition software
- Remi 'Datasoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

Features of Remi 'Datasoft' Software as per 21 CFR part 11 requirements

- Multiple level alpha numerical password with password ageing
- Electronic signature and menu entered comment
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with Lan connectivity and can be monitored on any PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS485/TCP-IP

GMP versions are available only with LCD display with its built-in features and software

OPTIONAL:

1. PLC with multi Colour HMI instead of PID Controller
2. GSM Mobile alert system (Work with Remi 'Datasoft' Software)



Technical Data

	CI - 6 Plus	CI - 10 Plus	CI - 12 Plus	CI - 16 Plus	CI - 19 Plus	CI - 28 Plus	CI - 35 Plus
Internal Volume (Litres)	200	280	370	450	540	800	1000
Number of tray	2	3	4	5	6	6	7
Internal Dimensions W x D x H (mm)	660 x 655 x 450	660 x 655 x 650	660 x 655 x 850	660 x 655 x 1050	660 x 655 x 1250	800 x 800 x 1250	800 x 800 x 1580
External Dimensions W x D x H (mm)	800 x 1095 x 1020	800 x 1095 x 1220	800 x 1095 x 1420	800 x 1095 x 1620	800 x 1095 x 1820	960 x 1370 x 1950	960 x 1370 x 270
Temperature Range & Accuracy	5°C to 60°C, ± 0.5°C						
Temperature control	Microprocessor with PT-100 sensor						
Display	1" - 7 Segment, Big Size LED						
Power Failure Alarm	Visual Alarm						
Door Open Alarm	Audio Visual Alarm in case door open for over one minute						
Temperature Variation Alarm	Set Temperature ± 2°C, Audio Visual Alarm						
Illumination	8 Watts Fluorescent Tube						
Internal Body Material	Stainless Steel - 304 grade (Standard Models), Stainless Steel - 316 grade (GMP Models)						
External Body Material	Powder Coated CRCA Steel (Standard Models), Stainless Steel - 304 grade (GMP Models)						
Insulation	70 mm minimum for Body & 80 mm for Door, CFC free polyurethane foam						
Noise Level	Less Than 65 db(A)						
Recommended Voltage Stabilizer	VS-02	VS-02	VS-02	VS-03	VS-03	VS-06	VS-06
Electrical	220-240 volts, 50Hz, Single Phase						

