REM I Cold Cabinets are designed for bio sample storage applications in pharmaceutical, microbiology, biotechnology, chemical & research labs.

These cabinets are available in standard & GMP versions.

Salient Features:

- Temperature range 2°C to 12°C
  Unique design of thermal barrier for better energy efficiency
- Machine filled PUF insulation to eliminate void pockets
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Chamber calibration port on side
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- Alarms for high / low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller with LED display of Temperature with set, process value & audio visual alarm (standard)

Optional

(i) 4” LCD display with additional features (Details overleaf)
(ii) Touch screen display (TFT) with additional features (Details overleaf)
(iii) Validation protocol with IQ, OQ, PQ Documentation
### Cold Cabinets

#### LCD Display
**Features**
- 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
- Memory for storage of up to 1000 records
- Centric 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)

#### Touch Screen Display
**Features**
- 7 Inch big colour touch screen
- PLC (Programmable logic controller)
- Memory of 10,000 records
- Centric Interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- PC communication through REMI DataSoft
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)

#### REMI ‘Data Soft’
**Features**
- Multiple Level alpha numerical password with password ageing
- 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 PC with password authentication
- Multi-chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers

#### Optional Accessories
**To be Ordered separately**
- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 Point temperature recording with sensor printer interface and software
- Seven days circular chart recorder
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

#### Technical Data

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<tbody>
<tr>
<td>Internal Volume (Litres)</td>
<td>200</td>
<td>280</td>
<td>370</td>
<td>450</td>
<td>540</td>
<td>800</td>
<td>1000</td>
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<tr>
<td>Number of trays</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<td>Dimensions W x D x H (mm)</td>
<td>660x955x450</td>
<td>660x955x580</td>
<td>690x955x580</td>
<td>660x955x1050</td>
<td>660x955x1250</td>
<td>800x850x1250</td>
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<td>External Dimensions W x D x H (mm)</td>
<td>800x1095x1020</td>
<td>800x1095x1220</td>
<td>800x1095x1420</td>
<td>800x1095x1620</td>
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<td>900x1370x1950</td>
<td>900x1370x2270</td>
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<tr>
<td>Temperature Range &amp; Accuracy</td>
<td>2°C to 12°C, ± 0.5°C</td>
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<td>Temperature Control</td>
<td>Microprocessor with P1-100 sensor</td>
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<td>Display</td>
<td>1&quot; - 7 Segment, Big Size LCD</td>
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<td>Power Failure Alarm</td>
<td>Visual Alarm</td>
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<td>Door Open Alarm</td>
<td>Audio Visual Alarm in case door open for over one minute</td>
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<td>Temperature Variation Alarm</td>
<td>Set Temperature ± 2°C, Audio Visual Alarm</td>
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<td>Illumination</td>
<td>8 Watts Fluorescent Tube</td>
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<td>Internal Body Material</td>
<td>Stainless Steel - 304 grade (Standard Model), Stainless Steel - 316 grade (GMP Model)</td>
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<td>Insulation</td>
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<td>Noise Level</td>
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<td>Recommended Voltage Stabilizer</td>
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<td>VS-02</td>
<td>VS-02</td>
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