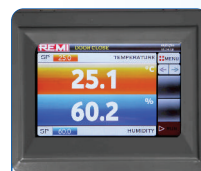




**LCD
Standard**



**TFT
Optional**

REMI Humidity Chambers are designed for testing of electronic, electrical components, corrosion studies on mechanical parts, shelf life studies on paints, varnishes and cement at respective manufacturing facilities. These chambers control precise temperature and Humidity.

These chambers are available in standard & GMP versions.

Salient Features :

- Precise monitoring of temperature and humidity conditions
- Temperature range 10°C to 60°C, Humidity range 40% to 95% RH
- 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
- Heating by long life SS tubular heaters
- Hermetically sealed Compressor with CFC free refrigerant
- Chamber calibration port on side
- Adjustable trays
- Output for remote alarm
- Microprocessor controller with LCD display & capacitance type sensor
- 4" attractive LCD display for direct display of humidity & temperature
- Auto tuning of controller
- Settable High / low alarm points with date and time
- Centronic interface to record Temperature, Humidity, Date & Time by attaching Dot Matrix printer with Adjustable print interval
- Remi 'Datasoft' data acquisition software as per 21 CFR part 11 requirements (Optional)
- Power failure and resumption recorded with date and time
- PC communication through RS-485 with data acquisition software
- High temperature safety cut off & alarms for high / lowset parameters
- Low water level alarm and power cutoff of boiler tank heater
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Data logger for 8 Point (4+4) temperature / humidity recording with sensor, printer interface and software (Optional)

Optional

- Touch screen display (TFT) with additional features(Details overleaf)
- Validation protocol with IQ, OQ, PQ Documentation

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 upto 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)

Touch Screen Display

Features

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 10,000 records
- Centronic 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)
- Programmable cyclic timer for controlling illumination conditions

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 / 16 Point temperature & Humidity recording with sensors printer interface and software
- 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 and humidity at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- Standby Humidity System
- GSM alert through SIM card

Technical Data

| | CHM-6 Plus | CHM-10 Plus | CHM-12 Plus | CHM-16 Plus | CHM-19 Plus | CHM-28 Plus | CHM-35 Plus |
|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Internal Volume (Liters) | 200 | 280 | 370 | 450 | 540 | 800 | 1000 |
| Number of Shelves | 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 2270 |
| Temperature Range & Accuracy | 10°C to 60°C, $\pm 1^\circ\text{C}$ | | | | | | |
| Humidity Range (Rh) & Accuracy | 40% to 95%, $\pm 3\%$ | | | | | | |
| Temperature & Humidity control | Microprocessor with Capacitance type sensor | | | | | | |
| Display | 4" LCD Screen, Large size Display for ease of reading | | | | | | |
| Power Failure Alarm | Visual Alarm | | | | | | |
| Door Open Alarm | Audio Visual Alarm in case door open for over one minute | | | | | | |
| Temperature / Humidity Variation Alarm | Set Humidity $\pm 3\%$, Set Temperature $\pm 1^\circ\text{C}$, 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-04 | | | | | VS-07 | |

Supply: 220-240 Volts, 50 Hz Single Phase.