

Humidity Chambers Seed Germinators



The 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.

Seed Germinators are used for germination & biological studies, which includes Fluorescent lights coupled with 24 hours cyclic timer for lights on / off regulation.

These chambers are available in standard & GMP versions.

Performance

- Temperature range 10°C to 60°C, Humidity range 40% to 95% Rh
- Precise monitoring of temperature and humidity conditions
- 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

- Microprocessor controller with LCD display & capacitance type sensor for precise control of temperature and humidity
- 4 Inch attractive LCD display for direct display of humidity & temperature
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Power failure and resumption recorded with date and time
- Machine filled PUF insulation to eliminate void pockets
- Unique design of thermal barrier for better energy efficiency
- Hermetically sealed Compressor with CFC free refrigerant



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User Friendly

- Histogram format of 24 hours temperature & humidity recording
- Settable High / low alarm points with date and time
- Memory for storage of up to 1000 records
- Centronic interface to record Temperature, Humidity, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Chamber calibration port on side
- Adjustable trays
- PC communication through RS-485 with data acquisition software
- Remi 'Datasoft' data acquisition software as per 21 CFR part 11 requirements (Optional)
- Data logger for 8 Point (4 + 4) temperature / humidity recording with sensor, printer interface and software (Optional)

Safety

- Low water level alarm and power cutoff of boiler tank heater
- High temperature safety cut off & alarms for high/low set parameters
- Output for remote alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor

Note : Use of distilled or demineralized water is strongly recommended for boiler.

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 RS 485 / TCP-IP

OPTIONAL:

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



Technical Data

	CHM-6 Plus SG-6 Plus	CHM-10 Plus SG-10 Plus	CHM-12 Plus	CHM-16 Plus	CHM-19 Plus SG-19 Plus	CHM-28 Plus SG-28 Plus	CHM-35 Plus SG-35 Plus
Internal Volume (Liters)	200	280	370	450	540	800	1000
Number of Shelves	2 / 3	3 / 5	4	5	6 / 8	6 / 10	7 / 10
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, ± 1°C						
Humidity Range (Rh) & Accuracy	40% to 95%, ± 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 ± 3%, Set Temperature ± 1°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	
Electrical	220-240 volts, 50Hz, Single Phase						



Specifications subject to change without notice