

# Stability Chambers



The REMI Stability Chambers are designed as per ICH Guidelines for precise monitoring of temperature and humidity conditions required for long term, intermediate & accelerated stability studies at chemical, pharmaceutical, agrochemical manufacturing facilities. These chambers are manufactured to comply with GMP requirements

## Performance

- Designed as per ICH guidelines to meet, WHO and USFDA requirement
- Fulfills storage conditions of 25°C – 60% Rh, 40°C – 75% Rh, 30°C – 65% Rh, 25°C – 40% Rh
- Precise monitoring of temperature and humidity conditions
- Comply with GMP requirements
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber within permissible limit
- 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 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

## User Friendly

- Histogram format of 24 hours temperature and humidity recording
- Settable High / low alarm points
- 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 complying to 21 CFR part 11 as per USFDA Guidelines (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

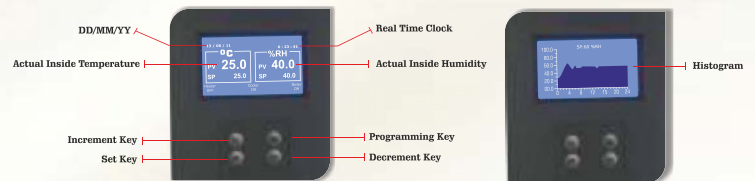
**Note :** Use of distilled or demineralized water is strongly recommended for boiler.

## 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 RS485 / TCP - IP

### OPTIONAL:

1. PLC with multi Colour HMI instead of PID Controller
2. Standby Refrigeration and /or Humidity System (for SC-28 Plus & SC-35 Plus)
3. GSM Mobile alert system (Work with Remi 'Datasoft' Software)



### Technical Data

	SC-6 Plus	SC-10 Plus	SC-12 Plus	SC-16 Plus	SC-19 Plus	SC-28 Plus	SC-35 Plus
internal Volume (Liters)	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 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						
Humidity/Temperature Variation Alarm	Set Humidity ± 3% Rh, Set Temperature ± 1°C, Audio Visual Alarm						
Illumination	8 Watts Fluorescent Tube						
Internal Body Material	Stainless Steel - 316 grade						
External Body Material	Stainless Steel - 304 grade						
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		VS-07
Electrical	220-240 volts, 50Hz, Single Phase						