

# REMI



## Deep Freezers



The REMI Deep Freezers are designed for storage of biological samples in biotech, life science, clinical research as well as medical & pharmaceutical specimens, serums, vaccines, blood components. These freezers are available with temperatures up to -20°C and -40°C.

**These freezers are available in standard & GMP versions.**

### Performance

- Temperature up to -20°C / -40°C (AC room)
- Upright models with small foot prints
- Validation protocol with IQ, OQ, DQ Documentation as per ICH guidelines

### Leading Technology

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

### User Friendly

- Digital LED display of Temperature with set, process value & audio visual alarm
- Adjustable trays
- 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

- Alarms for high/low set parameters
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor



Specifications subject to change without notice

# Deep Freezers

## 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 - 12 V, 7.2 Ah sealed maintenance free, Fully charged battery runs for more than eight hours
- Automatic Calibration
- 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 upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment /security gate
- PC communication with RS-485 and software complying to 21 CFR part 11 as per USFDA guidelines

## Features of Software complying to 21 CFR part 11

- 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

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



Technical Data								
	RQV-200 Plus	RQV-300 Plus	RQV-400 Plus	RQV-500 Plus	RQV-600 Plus	RQVD-200 Plus	RQVD-300 Plus	RQVD-400 Plus
Internal Volume (Liters)	200	300	400	500	600	200	300	400
Number of trays	2	3	4	5	6	2	3	4
Internal Dimensions W x D x H (mm)	640x755x430	640x755x630	640x755x830	640x755x1030	640x755x1230	640x755x 430	640x755x 630	640x755x830
External Dimensions W x D x H (mm)	800x975x1020	800x975x1220	800x975x1420	800x975x1620	800x975x1820	800x975x1020	800x975x1220	800x975x1420
Minimum Temperature	-20°C					-40°C (AC room)		
Insulation (CFC free polyurethane foam)	80 mm minimum for Body & 80 mm for Door							
Temperature control	Microprocessor							
Display	1" - 7 Segment, Big Size LED							
Power Failure Alarm	Audio Visual Alarm							
Door Open Alarm	Audio Alarm in case door open for over one minute							
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)							
Noise Level	Less Than 65 db(A)							
Recommended Voltage Stabilizer	VS-02	VS-02	VS-03	VS-03	VS-03	VS-02	VS-03	VS-03
Electrical	220-240 volts, 50Hz, Single Phase							