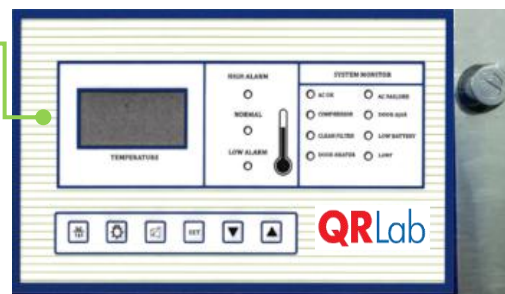# QRLab

Scientific Refrigerator

QRPR-150 QRPR-500 QRPR-1050 QRPR-1600

Applications

Designed for daily use in research, clinical, industrial laboratories, healthcare and research applications. Ideal for storing critical products such as reagents, media, food samples and proteins. Maintained consistent temperature in order to minimize the risk of bacterial contamination and explosions of volatile materials.

Features

- Key operated power switch for authorization purpose
- Microprocessor control and Digital display, ensuring internal temperature in the range of 2°C to 8°C
- Digital controller for temperature uniformity and fluctuation of less than 0.5°C
- Back-up memory system protects the preset temperature value during power failure
- Alarm systems: High & Low Alarm (temperature out of spec), Power Failure Alarm, Door Open Alarm (open for more than 3 minutes)
- Automatic diagnostic system identified and automatically adjust if controller error occurred
- Internal Offset function available for calibration purpose
- High efficient compressor and CFC-FREE refrigerant for fast cooling effect

- Ergonomic design
- Automatic cycle defrost ensure temperature stable
- Body construction: Powder coated mild steel
- Built-in circuit breaker
- Transparent large glass door with heater to remove condensation and easy viewing
- LED lighting for clear viewing of stored item
- Door switch to control air circulation to reduce temperature fluctuation during door opening
- Door lock for authorization purpose
- Supplied with adjustable shelves
- Mounted with locking-castor-wheels for easy mobility and location setting

Specification

Model	QRPR-150 (Bench-top)	QRPR-300	QRPR-500	QRPR-1050	QRPR-1600
Capacity	150 litres	300 litres	500 litres	1050 litres	1600 litres
Body construction	Powder coated mild steel				
Temp. working range	CFC-free polyurethane				
Temp. setting & display	2°C to 8°C				
Temperature Fluctuation	LED Digital display to 0.1°C				
Controls panel	Touch-pad icon based controls & display. Key operated Power Switch				
Temperature sensor	PTC (Reading based on internal chamber's sample temperature)				
Alarm system	Audible and Visual alarms with battery back-up. With remote alarm contact				
Alarm conditions	High & Low Alarm , Door open Alarm, Power failure Alarm, Low Battery Alarm				
Air Circulation	Force air circulation fan. Special guided air flow system to max uniform temperature distribution				
Refrigeration compressor	Reciprocating Hermetic seal type				
Compressor power	1/6 HP	1/5 HP	1/4 HP	3/8 HP	5/8 HP
Cooling capacity (Btu/hr)	1280	2250	3668	4235	7105
Compressor Sound Level	50dBA	50dBA	55dBA	55dBA	55dBA
Refrigerant	R134a, CFC FREE				
Defrost	Automatic cycle defrost				
Indicating lamp	LED lamp				
Power supply	240VAC, 50Hz single phase				
Rated Load Amp	2.3A	2.5A	3.1A	3.2A	4.5A
Epoxy coated Shelves	2 pcs	4 pcs	5 pcs	10 pcs	15 pcs
Door	Single glass door with heater			Double glass door with heater	Triple glass door with heater
Chamber dimension (mm)	465W x 505D x 665H	465W x 643D x 1123H	515W x 640D x 1450H	1130W x 640D x 1450H	1750W x 640D x 1450H
Overall dimension (mm)	585W x 675D x 1198H	585W x 820D x 1720H	640W x 820D x 2045H	1260W x 820D x 2045H	1875W x 820D x 2045H
Weight	55kg	90kg	120kg	165kg	270 kg

Optional Accessories

- 7 days Chart-recorder (Hard-copy chart) for temperature monitoring
- Temperature logger (Wireless or USB connect) for temperature monitoring
- GSM Auto-Dialer system (for remote alarm monitoring)