

REVOLUTION

HIGH-CAPACITY FREEZERS



The Next Generation of High-Capacity Freezers

Large volume storage 40k to 95k vials

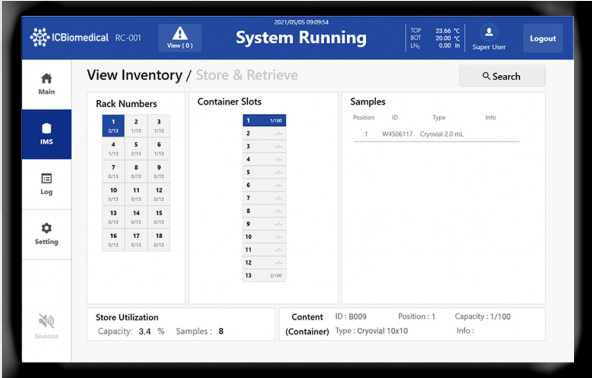
- Redesigned dewar for optimized storage – up to 15% higher capacity in the same footprint
- LN2 supply plumbing reduces fill times & cryogen waste
- Drilled manifold reduces supply side leaks & increases level measurement accuracy
- Multi-option dual/redundant level sensing
- Variable temperature control
- PLC-based touchscreen controller
- Network, cloud data and remote monitoring options
- Password-protected inventory access
- Automation-ready with onboard inventory options
- Network inventory management and pick lists

PLC Control System

- State-of-the-art touchscreen control system with data network
- Password-protected inventory access
- Built-in set up routine ensures optimum installation with no nuisance alarms
- Simple-to-learn intuitive user interface
- Multiple networking options with available API and IOT data platform



True automation path



- Manual system designed for liquid level or temperature control
- Addition of rotation control
- Addition of local inventory management and control
- Addition of container handling robot
- Addition of single sample handling and storage/retrieval
- Network inventory management and pick lists
- Integration with GPS and RFID sensor network for transport of material between freezers or geography

REVO Series - built-in inventory management

- Allows direct sample storage or retrieval to specific freezer locations and eliminates misplaced samples and data resulting from human error
- Inventory screen allows users to easily browse data for items stored in the freezer
- Visual box display allows selection of vial slots to be accessed
- Defined workflow provides additional layer of error proofing
- Inventory data can be accessed remotely and/or synchronized with external systems



Revolution Series – specification and models (sizes)

	40K-P	40K-R	45K-P	45K-R	90K-P	90K-R	95K-P	95K-R
1.2 and 2 ml Vials	39,200	42,000	42,000	45,000	86,100	89,250	92,250	94,500
Quantity of Large Racks	24	26	24	26	54	60	54	60
Quantity of Mini Racks	16	16	16	16	30	12	30	12
Number of Shelves Per Rack	14	14	15	15	14	14	15	15
Total LN2 Capacity Storage (L.)	102	102	102	102	271	271	271	271
Total Inner Vessel Capacity (L.)	978	978	1139	1139	1667	1667	1900	1900
Inside Diameter (mm)	1012	1012	1012	1012	1470	1470	1470	1470
Outside Diameter (mm)	1068	1068	1068	1068	1524	1524	1524	1524
Overall Height (mm)	1419	1419	1574	1574	1469	1469	1625	1625
Useable Height (mm)	788	788	947	947	800	800	958	958
Weight, Empty (kg)	307	307	334.5	334.5	576.6	576.6	615.9	615.9
Weight, Full Without ICS (kg)	389.1	389.1	416.6	416.6	795.6	795.6	834.9	834.9
Neck Opening (mm)	426	426	426	426	622	622	622	622
Blood Bag Capacities								
25ml	3320	3184	-	-	-	-	6704	6432
50ml	1736	1687	-	-	-	-	3936	3920
250ml	812	768	-	-	-	-	1980	2010
500ml	608	576	-	-	-	-	1380	1550

Medical device certified according to - European Directive 93/42/EEC Annex IX, rule 2 & Regulation (EU) 2017/745

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