EVOLUTION

High-capacity freezers with new features that keep pace with today's evolving biorepository requirements and connected security

ICBiomedical

EVOLUTION

THE NEXT GENERATION OF HIGH-CAPACITY FREEZERS

Since its introduction in 2004, the Laboratory Archival Biological Storage (LABS) Series has been the benchmark cryogenic freezer system in biobanking. Now, keeping pace with the latest in technological advances, IC Biomedical introduces an new evolutionary, feature-rich biorepository freezer that's configured for safe, reliable storage with a control platform compatible with digitally connected laboratory data management environments and regulatory requirements.

Evolution's fully redundant level management, combined with new leak-free plumbing for nitrogen supply and level measurement, creates a uniquely robust operational platform at the lowest storage temperature in the industry.

Freezer Features

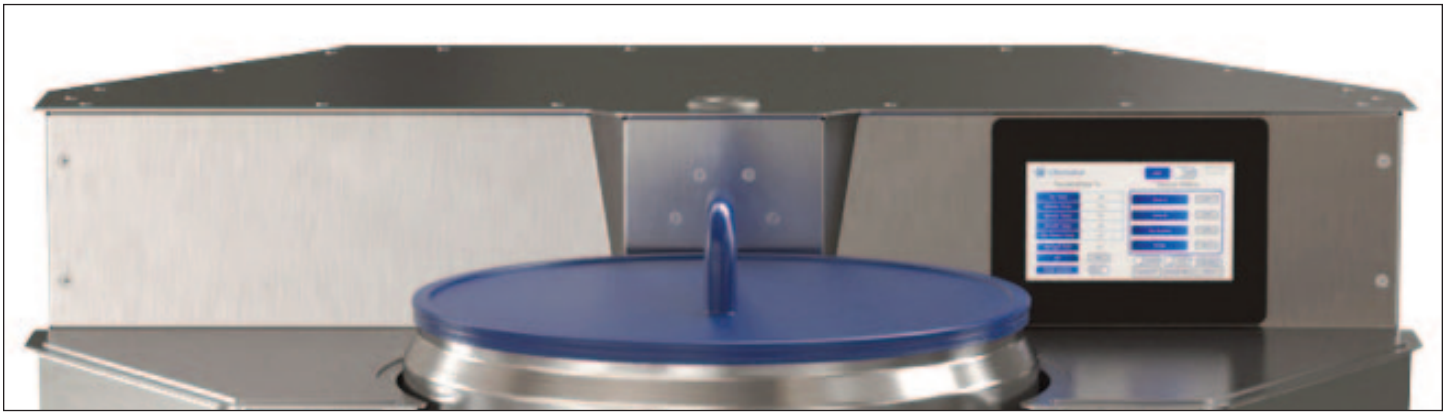
- Interior LED lighting and automatic defogging fan maximize sample visibility when working with the freezer
- Space-efficient with enhanced user ergonomics, racks are easier to place, find and remove
- Improved level management with completely redesigned liquid delivery
- Fail-safe level measurement with dual, fully redundant, control channels
- Hinged lid for easy access
- Manufactured in our medical-grade, ISO 13485-certified facility

Automatic defogging fan and interior LED light maximize sample visibility

New leak-free plumbing manifold design

ICBiomedical

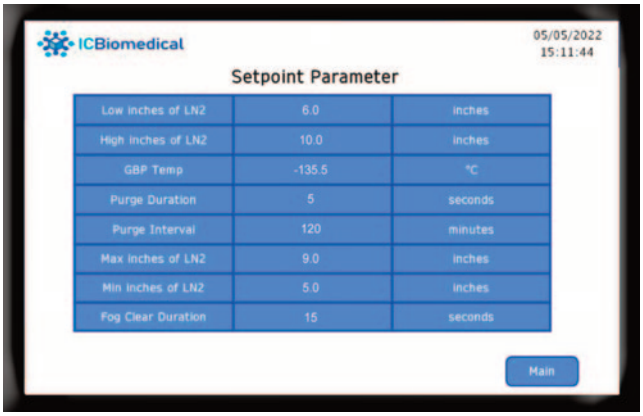
ICBiomedical

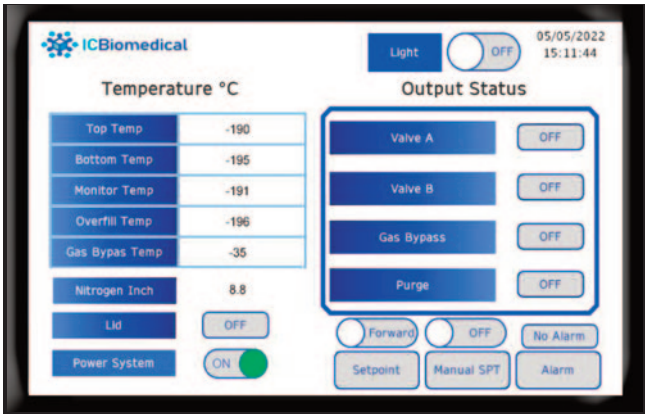


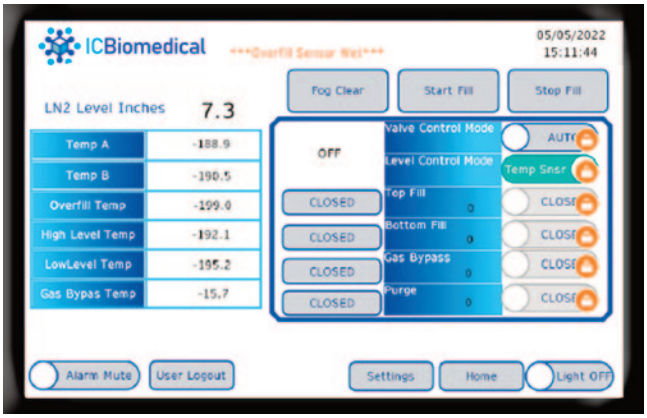
Control Features

Control systems are a fundamental building block of freezer functionality and the facilitation of compliance. The control unit has been designed to provide a simple, intuitive interface with an extremely robust, redundant control platform featuring state-of-the-art connectivity and simple user interaction.

- Dual, redundant level sensing guards against level control issues
- Large, touchscreen user panel
- Industry-proven PLC controller providing robust control platform
- Web server and API supports BMS and Network connection
- User management and audit-trail functions







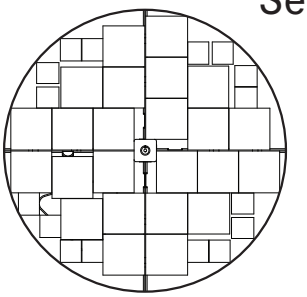
EVOLUTION

Evolution's fully redundant level management, combined with new leak-free plumbing for nitrogen supply and level measurement, creates a uniquely robust operational platformat the lowest storage temperaturein the industry.

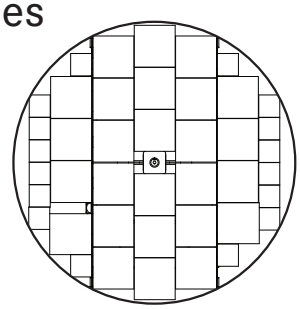
FEATURE	STATUS
Discrete RTD Level Control	Standard
Differential Pressure Level Control	Standard
Temperature Measurement - RTD	Standard
Cloud or Network Data Platform	Field Update
Audit Trail / User Activity	Optional

Rack Capacity by Model

400 Series

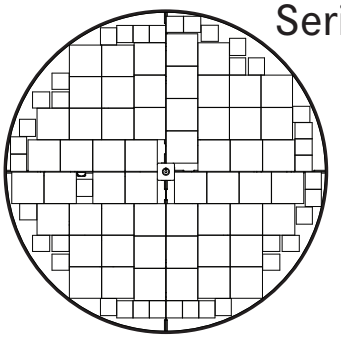


Large Racks
100 Cell Boxes - 24
Mini-Racks
25 Cell Boxes - 16

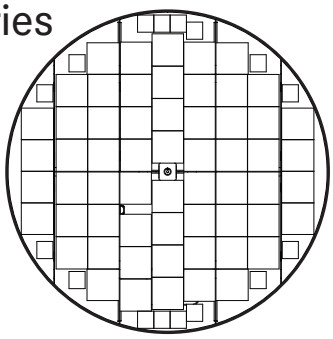


Large Racks
100 Cell Boxes - 26
Mini -Racks
25 Cell Boxes - 16

600 Series



Large Racks
100 Cell Boxes - 56
Mini-Racks
25 Cell Boxes - 39



Large Racks
100 Cell Boxes - 60
Mini -Racks
25 Cell Boxes - 16

	414-P	415-P	414-R	415-R	614-P	615-P	614-R	615-R
Number Std Racks (Boxes)	24 (336)	24 (360)	26 (364)	26 (390)	56 (784)	56 (840)	60 (840)	60 (900)
Number Mini Racks (Boxes)	16 (56)	16 (60)	16 (56)	16 (60)	39 (136.5)	39 (146)	16 (56)	16 (60)
Number Half (Vertical) Racks (Boxes)	72 (360)	72 (432)	72 (360)	72 (432)	156 (730)	156 (936)	156 (730)	156 (936)

ICBiomedical

ICBiomedical

EVOLUTION
Model Specifications

EVOLUTION MODEL		414-P	415-P	414-R	415-R
1.2 and 2 ml Vials		39,200	42,000	42,000	45,000
Quantity of Large Racks		24	24	26	26
Quantity of Mini Racks		16	16	16	16
Number of Shelves Per Rack		14	15	14	15
Quantity of Vertical Racks		74	76	76	74
1.2 and 2 ml Vials		38,000	45,600	37,000	44,400
Total LN2 Capacity Storage (L)		102	102	102	102
Total Inner Vessel Capacity (L)		978	1139	978	1139
Inside Diameter (in/mm)		39.8/1012	39.8/1012	39.8/1012	39.8/1012
Outside Diameter (in/mm)		42/1068	42/1068	42/1068	42/1068
Overall Height (in/mm)		55.8/1419	61.9/1574	55.8/1419	61.9/1574
Useable Height (in/mm)		31/788	37.2/947	31/788	37.2/947
Weight, Empty (lb/kg)		677/307	737/334.5	677/307	737/334.5
Weight, Full Without ICS (lb/kg)		858/389.1	918/416.6	858/389.1	918/416.6
Neck Opening (in/mm)		16.7/426	16.7/426	16.7/426	16.7/426
Blood Bag Capacities	25ml	3320	-	3184	-
	50ml	1736	-	1687	-
	250ml	812	-	768	-
	500ml	608	-	576	-

EVOLUTION MODEL		614-P	615-P	614-R	615-R
1.2 and 2 ml Vials		92,050	98,625	89,600	96,000
Quantity of Large Racks		56	56	60	60
Quantity of Mini Racks		39	39	16	16
Number of Shelves Per Rack		14	15	14	15
Quantity of Vertical Racks		168	168	-	-
1.2 and 2 ml Vials		84,000	100,800	-	-
Total LN2 Capacity Storage (L)		271	271	271	271
Total Inner Vessel Capacity (L)		1667	1900	1667	1900
Inside Diameter (in/mm)		57.9/1470	57.9/1470	57.9/1470	57.9/1470
Outside Diameter (in/mm)		60/1524	60/1524	60/1524	60/1524
Overall Height (in/mm)		57.8/1469	63.9/1625	57.8/1469	63.9/1625
Useable Height (in/mm)		31.5/800	37.7/958	31.5/800	37.7/958
Weight, Empty (lb/kg)		1271/576.6	1358/615.9	1271/576.6	1358/615.9
Weight, Full Without ICS (lb/kg)		1754/795.6	1841/834.9	1754/795.6	1841/834.9
Neck Opening (in/mm)		24.5/622	24.5/622	24.5/622	24.5/622
Blood Bag Capacities	25ml	-	6704	-	6432
	50ml	-	3936	-	3920
	250ml	-	1980	-	2010
	500ml	-	1380	-	1550

ICBiomedical

All products are produced in our medical-grade, **ISO 13485-certified** manufacturing facility in Cartersville, Georgia USA.

A 65-year legacy of cold chain storage and transport technology

Capitalizing on a 65-year legacy of cold chain storage and transport technology, IC Biomedical is bringing new life to the cryogenic equipment world. IC Biomedical builds the highest-quality cryogenic storage and transport systems for the global biomedical research and development, healthcare, biorepository, pharmaceutical, biotechnology, IVF and animal husbandry markets.

855.750.8191 | sales@ICBiomedical.com | www.ICBiomedical.com