

# Revolution 400 Series

## Revolution Core Features

- Configurable text and email notifications / web access
- Limited battery backup, gas bypass
- Operation at -190C Vapor phase with extended hold
- 360° LED internal light
- Built in extraction fan to clear fog
- Dual, redundant level measurement system
- Coordinated and/or timed filling
- Hinged, auto-locking lid with access control
- Stabilized carousel with top and bottom bearings
- Drilled manifold and direct plumbing connections
- Fold-down full-sized step

## Revolution+

(All Core Features Plus Up to 4 Options)

- Radiance Cooling maximum temperature & liquid level management
- RFID badge user access
- Motorized tray with sample access management & individual rack location learning
- External communications package



Solenoid-Based Locking Lid



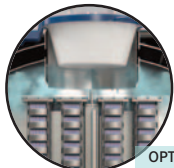
Large, Intuitive Touch Screen



Leak-Free Manifold Plumbing



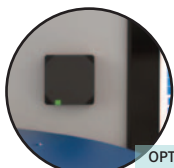
Defogging Fan & LED Light



Radiance Cooling Technology



Motor-Driven Sample Carousel



RFID Badge Reader



External Comms Package

REVOLUTION 400 Series	413-P	414-P	415-P	413-R	414-R	415-R
1.2 and 2 ml Vials	36,400	39,200	42,000	39,000	42,000	45,000
Quantity of Large Racks	24	24	24	26	26	26
Quantity of Mini Racks	16	16	16	16	16	16
Number of Shelves Per Rack	13	14	15	13	14	15
Total LN2 Capacity Storage (L)	133	88	102	88	88	102
Total Inner Vessel Capacity (L)	978	978	1139	978	978	1139
Inside Diameter (in/mm)	39.8/1012	39.8/1012	39.8/1012	39.8/1012	39.8/1012	39.8/1012
Outside Diameter (in/mm)	42/1068	42/1068	42/1068	42/1068	42/1068	42/1068
Overall Height (in/mm)	55.8/1419	55.8/1419	61.9/1574	55.8/1419	55.8/1419	61.9/1574
Useable Height (in/mm)	30/762	32.4/883	34.8/883	32.4/883	32.4/883	34.8/883
Weight, Empty (lb/kg)	677/307	677/307	737/334.5	677/307	677/307	737/334.5
Weight, Full Without ICS (lb/kg)	858/389.1	858/389.1	918/416.6	858/389.1	858/389.1	918/416.6
Neck Opening (in/mm)	16.7/426	16.7/426	16.7/426	16.7/426	16.7/426	16.7/426

