



Revolution 300 Series

Revolution Core Features

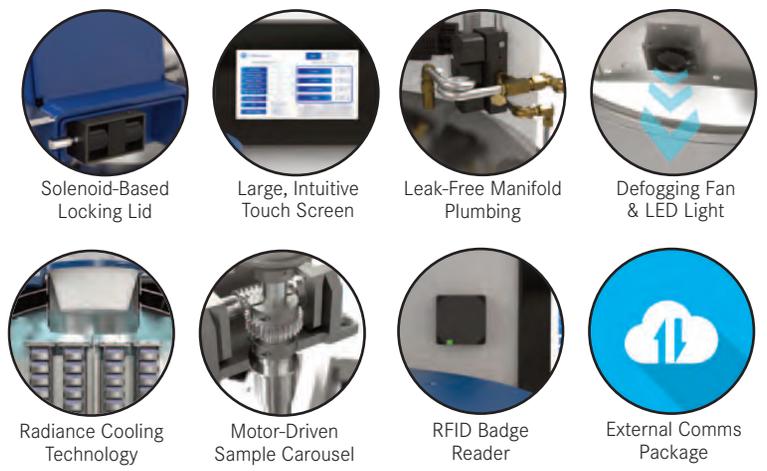
- Configurable text and email notifications / web access
- Limited battery backup, gas bypass
- Operation at -190C Vapor phase with extended hold
- 360° LED internal light
- Built in extraction fan to clear fog
- Dual, redundant level measurement system
- Coordinated and/or timed filling
- Hinged, auto-locking 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

REVOLUTION 300 Series	313-P	315-P
1.2 and 2 ml Vials	16,900	19,500
Quantity of Large Racks	12	12
Quantity of Mini Racks	4	4
Number of Shelves Per Rack	13	15
Total LN2 Capacity Storage (L)	54.3	67.0
Total Inner Vessel Capacity (L)	460.9	530.4
Inside Diameter (in/mm)	29.9/759	29.9/759
Outside Diameter (in/mm)	32/813	32/813
Overall Height (in/mm)	57.7/1465	57.7/1465
Useable Height (in/mm)	30.8/783	35.8/911
Weight, Empty (lb/kg)	462/209.6	490/222.3
Weight, Full Without ICS (lb/kg)	553/250.8	1175/533
Neck Opening (in/mm)	11.8/300	11.8/300



OPTIONAL



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
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Solenoid-Based Locking Lid



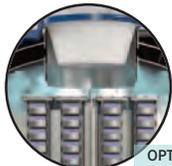
Large, Intuitive Touch Screen



Leak-Free Manifold Plumbing



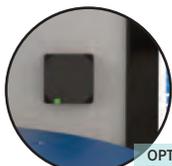
Defogging Fan & LED Light



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

Revolution 600 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



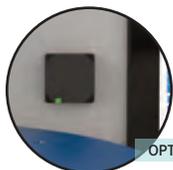
Defogging Fan & LED Light



Radiance Cooling Technology



Motor-Driven Sample Carousel



RFID Badge Reader



External Comms Package

REVOLUTION 600 Series	613-P	614-P	615-P	613-R	614-R	615-R
1.2 and 2 ml Vials	85,475	92,050	98,625	83,200	89,600	96,000
Quantity of Large Racks	54	56	56	60	60	60
Quantity of Mini Racks	39	39	39	16	16	16
Number of Shelves Per Rack	13	14	15	13	1	15
Total LN2 Capacity Storage (L)	225	201	319	225	201	319
Total Inner Vessel Capacity (L)	1667	1667	1900	1667	1667	1900
Inside Diameter (in/mm)	57.9/1470	57.9/1470	57.9/1470	57.9/1470	57.9/1470	57.9/1470
Outside Diameter (in/mm)	60/1524	60/1524	60/1524	60/1524	60/1524	60/1524
Overall Height (in/mm)	57.8/1469	57.8/1469	63.9/1625	57.8/1469	57.8/1469	63.9/1625
Useable Height (in/mm)	31.1/789.9	34.7/883.1	35.6/904.2	31.1/789.9	34.7/883.1	35.6/904.2
Weight, Empty (lb/kg)	1271/576.6	1358/615.9	1358/615.9	1271/576.6	1358/615.9	1358/615.9
Weight, Full Without ICS (lb/kg)	1754/795.6	1841/834.9	1841/834.9	1754/795.6	1841/834.9	1841/834.9
Neck Opening (in/mm)	24.5/622	24.5/622	24.5/622	24.5/622	24.5/622	24.5/622