Alinity

Alinity
ci-series

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Alinity ci-series System Specifications

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Abbott

Alinity

FEATURE	ALINITY c	ALINITY i
Dimension (H x W x D)	134 x 119 x 117 cm/1.39 m^2	134 x 119 x 117 cm/1.39 m^2
Methods	Photometric, Potentiometric	Chemiluminescence
Maximum Throughput	Up to 1350 TPH	Up to 200 TPH
Throughput/m^2	Up to 971 TPH/m^2	Up to 144 TPH/m^2
Scalability	Up to 4 modules controlled by one System Control Module (SCM)	
Continuous Access of Reagents, Calibrators, Controls, and Consumables	Yes	
Flexible Stat Options	Prioritize single rack as needed or configure multiple fixed positions	
Sample Types*	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, whole blood, urine
Sample Capacity	150	150
Sample Bar Code Types	Code 128, Standard Code 39, Interleaved 2 of 5, Codabar	
Sample Result Storage	200,000	
Dead Volume	50 µL (sample cup)	
Sample Volume*	1.5–35 µL	2–200 µL
Sample Probe Carryover	≤0.1 parts per million†	
Reagent Capacity	Up to 70 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 47 refrigerated reagent cartridges onboard
Reagent Type	100% liquid ready-to-use	
Reagent Onboard Stability*	5–60 days	15–30 days
Automated Onboard Calibrators and Controls*	Yes	Yes (controls only)
Calibration Frequency*	1–60 days	15–30 days
Sample, Clot, and Bubble Detection	Yes	
Reagent Pressure Monitoring	Yes	
Sample Interference Measurement	Yes: hemolysis, icterus, and lipemia	No
On Board Maintenance Records	Yes	
Online Error Code Help	Yes	
Host Interface	HL7 or ASTM	
Remote Diagnostics	AbbottLink	
Weight	712 kg	623 kg
Electrical Requirements	SCM: 90–264 V, 16 amp Each Instrument: 180–264 V, 16 amp	
Water Requirements	Average: 27 L/hr Max‡: ≤30 L/hr	Average: ≤10 L/hr Max‡: ≤30 L/hr
Heat Output (processing)	Average: 2005 Btu	Average: 1634 Btu
Noise Level (1 m)	Alinity c: 55.9 dBA Alinity i: 63.4 dBA	
Laboratory Automation Connection	ACCELERATOR a3600	ACCELERATOR a3600

TPH=tests per hour
* Assay dependent.
† Excluding whole blood.
‡ Maximum of 2 minutes during the prime of the wash buffer dilution assembly.

Alinity

FEATURE	ALINITY ci	ALINITY cc	ALINITY ii
Dimension (H x W x D)	134 x 199 x 117 cm/2.33 m^2	134 x 199 x 117 cm/2.33 m^2	134 x 199 x 117 cm/2.33 m^2
Methods	Photometric, Potentiometric, Chemiluminescence	Photometric, Potentiometric	Chemiluminescence
Maximum Throughput	Up to 1550 TPH	Up to 2700 TPH	Up to 400 TPH
Throughput/m^2	Up to 665 TPH/m^2	1159 TPH/m^2	172 TPH/m^2
Scalability	Up to 4 modules controlled by one System Control Module (SCM)		
Continuous Access of Reagents, Calibrators, Controls, and Consumables	Yes		
Flexible Stat Options	Prioritize single rack as needed or configure multiple fixed positions		
Sample Types*	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, whole blood, urine
Sample Capacity	300	300	300
Sample Bar Code Types	Code 128, Standard Code 39, Interleaved 2 of 5, Codabar		
Sample Result Storage	200,000		
Dead Volume	50 µL (sample cup)		
Sample Volume*	Alinity c: 1.5–35 µL Alinity i: 2–200 µL	1.5–35 µL	2–200 µL
Sample Probe Carryover	≤0.1 parts per million†		
Reagent Capacity	Up to 117 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 140 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 94 refrigerated reagent cartridges onboard
Reagent Type	100% liquid ready-to-use		
Reagent Onboard Stability*	For Alinity c: 5–60 days For Alinity i: 15–30 days	5–60 days	15–30 days
Automated Onboard Calibrators and Controls*	Alinity c: Yes Alinity i: Yes (controls only)	Yes	Yes (controls only)
Calibration Frequency*	For Alinity c: 1–60 days For Alinity i: 15–30 days	1–60 days	15–30 days
Sample, Clot, and Bubble Detection	Yes		
Reagent Pressure Monitoring	Yes		
Sample Interference Measurement	Yes: hemolysis, icterus, and lipemia (CC only)	Yes: hemolysis, icterus, and lipemia	No
On Board Maintenance Records	Yes		
Online Error Code Help	Yes		
Host Interface	HL7 or ASTM		
Remote Diagnostics	AbbottLink		
Weight	1160 kg	1248 kg	1071 kg
Electrical Requirements	SCM: 90–264 V, 16 amp Each Instrument: 180–264 V, 16 amp		
Water Requirements	Average: ≤37 L/hr Max‡: ≤60 L/hr	Average: ≤54 L/hr Max‡: ≤60 L/hr	Average: ≤20 L/hr Max‡: ≤60 L/hr
Heat Output (processing)	Average: 3639 Btu	Average: 4010 Btu	Average: 3268 Btu
Noise Level (1 m)	Alinity c: 55.9 dBA Alinity i: 63.4 dBA		
Laboratory Automation Connection	ACCELERATOR a3600	ACCELERATOR a3600	ACCELERATOR a3600

TPH=tests per hour
* Assay dependent.
† Excluding whole blood.
‡ Maximum of 2 minutes during the prime of the wash buffer dilution assembly.

Alinity

FEATURE	ALINITY cic	ALINITY ccc	ALINITY iii
Dimension (H x W x D)	134 x 280 x 117 cm/3.27 m^2	134 x 280 x 117 cm/3.27 m^2	134 x 280 x 117 cm/ 3.27 m^2
Methods	Photometric, Potentiometric, Chemiluminescence	Photometric, Potentiometric	Chemiluminesence
Maximum Throughput	Up to 2900 TPH	Up to 4050	Up to 600
Throughput/m^2	888 TPH/m^2	1239 TPH/m^2	183 TPH/m^2
Scalability	Up to 4 modules controlled by one System Control Module (SCM)		
Continuous Access of Reagents, Calibrators, Controls, and Consumables	Yes		
Flexible Stat Options	Prioritize single rack as needed or configure multiple fixed positions		
Sample Types*	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, whole blood, urine
Sample Capacity	450		
Sample Bar Code Types	Code 128, Standard Code 39, Interleaved 2 of 5, Codabar		
Sample Result Storage	200,000		
Dead Volume	50 µL (sample cup)		
Sample Volume*	Alinity c: 1.5–35 µL Alinity i: 2–200 µL	1.5–35 µL	2–200 µL
Sample Probe Carryover	≤0.1 parts per million†		
Reagent Capacity	Up to 187 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 210 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 141 refrigerated reagent cartridges onboard
Reagent Type	100% liquid ready-to-use		
Reagent Onboard Stability*	For Alinity c: 5–60 days For Alinity i: 15–30 days	5–60 days	15–30 days
Automated Onboard Calibrators and Controls*	Alinity c: Yes Alinity i: Yes (controls only)	Yes	Yes
Calibration Frequency*	For Alinity c: 1–60 days For Alinity i: 15–30 days	1–60 days	15–30 days
Sample, Clot, and Bubble Detection	Yes		
Reagent Pressure Monitoring	Yes		
Sample Interference Measurement	Yes: hemolysis, icterus, and lipemia (CC only)	Yes: hemolysis, icterus, and lipemia	No
On Board Maintenance Records	Yes		
Online Error Code Help	Yes		
Host Interface	HL7 or ASTM		
Remote Diagnostics	AbbottLink		
Weight	1696 kg	1785 kg	1520 kg
Electrical Requirements	SCM: 90–264 V, 16 amp Each Instrument: 180–264 V, 16 amp		
Water Requirements	Average: ≤64 L/hr Max‡: ≤90 L/hr	Average: ≤81 L/hr Max‡: ≤90 L/hr	Average: ≤30 L/hr Max‡: ≤90 L/hr
Heat Output (processing)	Average: 5644 Btu	Average: 6015 Btu	Average: 4902 Btu
Noise Level (1 m)	Alinity c: 55.9 dBA Alinity i: 63.4 dBA		
Laboratory Automation Connection	ACCELERATOR a3600	In Development	In Development

TPH=tests per hour
* Assay dependent.
† Excluding whole blood.
‡ Maximum of 2 minutes during the prime of the wash buffer dilution assembly.

Alinity

FEATURE	ALINITY cccc	ALINITY iiii	ALINITY cici
Dimension (H x W x D)	134 x 360 x 117 cm/4.2 m^2	134 x 360 x 117 cm/4.2 m^2	134 x 360 x 117 cm/4.2 m^2
Methods	Photometric, Potentiometric	Chemiluminescence	Photometric, Potentiometric, Chemiluminescence
Maximum Throughput	Up to 5400 TPH	Up to 800 TPH	Up to 3100
Throughput/m^2	1286 TPH/m^2	190 TPH/m^2	738 TPH/m^2
Scalability	Up to 4 modules controlled by one System Control Module (SCM)		
Continuous Access of Reagents, Calibrators, Controls, and Consumables	Yes		
Flexible Stat Options	Prioritize single rack as needed or configure multiple fixed positions		
Sample Types*	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood	Serum, plasma, whole blood, urine	Serum, plasma, urine, cerebrospinal fluid, hemolysate, whole blood
Sample Capacity	600		
Sample Bar Code Types	Code 128, Standard Code 39, Interleaved 2 of 5, Codabar		
Sample Result Storage	200,000		
Dead Volume	50 µL (sample cup)		
Sample Volume*	1.5–35 µL	2–200 µL	Alinity c: 1.5–35 µL Alinity i: 2–200 µL
Sample Probe Carryover	≤0.1 parts per million†		
Reagent Capacity	Up to 280 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)	Up to 188 refrigerated reagent cartridges onboard	Up to 234 refrigerated reagent cartridges onboard plus patented ISE (Na+, K+, and Cl-)
Reagent Type	100% liquid ready-to-use		
Reagent Onboard Stability*	5–60 days	15–30 days	For Alinity c: 5–60 days For Alinity i: 15–30 days
Automated Onboard Calibrators and Controls*	Yes	Yes	Yes
Calibration Frequency*	1–60 days	15–30 days	For Alinity c: 1–60 days For Alinity i: 15–30 days
Sample, Clot, and Bubble Detection	Yes		
Reagent Pressure Monitoring	Yes		
Sample Interference Measurement	Yes: hemolysis, icterus, and lipemia	No	Yes: hemolysis, icterus, and lipemia (CC only)
On Board Maintenance Records	Yes		
Online Error Code Help	Yes		
Host Interface	HL7 or ASTM		
Remote Diagnostics	AbbottLink		
Weight	2321 kg	1968 kg	2145 kg
Electrical Requirements	SCM: 90–264 V, 16 amp Each Instrument: 180–264 V, 16 amp		
Water Requirements	Average: ≤108 L/hr Max‡: <120 L/hr	Average: ≤40 L/hr Max‡: ≤120 L/h	Average: ≤74 L/hr Max‡: ≤120 L/hr
Heat Output (processing)	Average: 8020 Btu	Average: 6536 Btu	Average: 7278 Btu
Noise Level (1 m)	Alinity c: 55.9 dBA Alinity i: 63.4 dBA		
Laboratory Automation Connection	ACCELERATOR a3600	ACCELERATOR a3600	In Development

TPH=tests per hour
* Assay dependent.
† Excluding whole blood.
‡ Maximum of 2 minutes during the prime of the wash buffer dilution assembly.

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