



ARCHITECT

SYSTEM SPECIFICATIONS

- True family commonality
- Integration without compromise
- Enhanced system and assay dynamics

Refer to the ARCHITECT System Operations Manual for operational precautions, limitations and hazards. Manuals can be found on corelaboratory.abbott

ARCHITECT SYSTEMS

TRUE FAMILY COMMONALITY

The ARCHITECT family delivers advanced technology, with a simple and consistent user experience. Abbott offers true family commonality across multiple platform combinations for all your laboratory's needs while maximizing ease of use through common reagent sharing, sample carriers, software and instrument consumables.

CONSISTENT USER EXPERIENCE

CLINICAL CHEMISTRY



c16000



c8000



c4000

IMMUNOASSAY



i4000SR



i2000SR



i1000SR

INTEGRATION



ci16200



ci8200



ci4100

↑
INCREASING
VOLUME

ARCHITECT SYSTEMS

DISTINGUISHING FEATURES OF ARCHITECT c4000, c8000 and c16000 Systems

	c4000	c8000	c16000
Feature	Photometric, potentiometric, turbidimetric	Photometric, potentiometric, turbidimetric	Photometric, potentiometric, turbidimetric
Maximum Throughput	Up to 800 tests/hour	Up to 1,200 tests/hour	Up to 1,800 tests/hour
Sample Types	Serum, plasma, whole blood, urine, CSF	Serum, plasma, whole blood, urine, CSF	Serum, plasma, urine, CSF
Sample Tubes	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm
Sample Cup (Dead Volume)	Yes (50 µL)	Yes (50 µL)	Yes (50 µL)
Sample Capacity	100	215	215
Sample Barcode Types	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128
Sample Result Storage	50,000	50,000	50,000
Sample Volume	1.5–35 µL (Average: 7 µL)	1.5–35 µL (Average: 7 µL)	1.5–35 µL (Average: 7 µL)
Automatic Dilution	Yes	Yes	Yes
Sample Probe Carryover	< 1,000 ppm WB to WB ≤ 0.1 ppm WB to serum	< 1,000 ppm WB to WB ≤ 0.1 ppm WB to serum	≤ 0.1 ppm
Assays Capacity Onboard	55 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)	65 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)	65 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)
Reagent Type	> 97% liquid ready-to-use	> 97% liquid ready-to-use	> 97% liquid ready-to-use
Reagent Onboard Stability	5–65 days (Average: 38 days)	5–65 days (Average: 38 days)	5–65 days (Average: 38 days)
Calibration Frequency	1–60 days (Average: 25 days)	1–60 days (Average: 25 days)	1–60 days (Average: 25 days)
Sample, Clot and Bubble Detection	Yes	Yes	Yes
Reagent Pressure Monitoring	Yes	No	Yes
Sample Interference Measurement	Yes, hemolysis, icterus and lipemia	Yes, hemolysis, icterus and lipemia	Yes, hemolysis, icterus and lipemia
System Control Center	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse
Onboard Maintenance Records	Yes	Yes	Yes
Online Error Code Help	Yes	Yes	Yes
Host Interface	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available
Remote Diagnostics	AbbottLink®	AbbottLink	AbbottLink
Dimension (H × W × D)	49 × 63 × 36 in/125.1 × 160 × 90.7 cm	48 × 79 × 49 in/121.9 × 200.6 × 124.5 cm	48 × 79 × 49 in/121.9 × 200.6 × 124.5 cm
Weight	1,132 lb/513.5 kg	1,425 lb/646.4 kg	1,545 lb/701 kg
Electrical Requirements	AC 180–264 V/47–63 Hz/20 A	AC 180–264 V/47–63 Hz/20 A	AC 180–264 V/47–63 Hz/20 A
Water Requirements	Deionized water 15 liters/hour during normal operation (25 liters/hour maximum)	Deionized water 25 liters/hour during normal operation	Deionized water ≤ 54 liters/hour during normal operation
Heat Output*	3,050 BTU/hr, Running mode	3,400 BTU/hr, Running mode	4,730 BTU/hr, Running mode
Sample Loading	RSH	RSH + carousel	RSH + carousel

*Values provided represent the typical output in Running mode for the system processing module and sample handler. A maximum value of 389 BTU/hr was obtained for the system control center (SCC) using the i2000SR as a representative system. Values obtained during an internal study. Data on file with Abbott.

ARCHITECT SYSTEMS

DISTINGUISHING FEATURES OF ARCHITECT *i1000SR*, *i2000SR* and *i4000SR* Systems

	<i>i1000SR</i>	<i>i2000SR</i>	<i>i4000SR</i>
Feature	CHEMIFLEX	CHEMIFLEX	CHEMIFLEX
Maximum Throughput	Up to 100 tests/hour	Up to 200 tests/hour	Up to 400 tests/hour
Sample Types	Serum, plasma, whole blood, urine	Serum, plasma, whole blood, urine	Serum, plasma, whole blood, urine
Sample Tubes	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm
Sample Cup (Dead Volume)	Yes (50 µL)	Yes (50 µL)	Yes (50 µL)
Sample Capacity	65	135	285
Sample Barcode Types	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128
Sample Result Storage	50,000	50,000	50,000
Sample Volume	10–160 µL (Average: 62 µL)	10–150 µL (Average: 57 µL)	10–150 µL (Average: 57 µL)
Automatic Dilution	Yes	Yes	Yes
Sample Probe Carryover	≤ 0.1 ppm	≤ 0.1 ppm	≤ 0.1 ppm
Assays Capacity Onboard	25	25	50
Reagent Type	100% liquid ready-to-use	100% liquid ready-to-use	100% liquid ready-to-use
Reagent Onboard Stability	14–30 days	14–30 days	14–30 days
Calibration Frequency	Calibrate with new lot number, if controls are out of range or if specified otherwise within the package insert	Calibrate with new lot number, if controls are out of range or if specified otherwise within the package insert	Calibrate with new lot number, if controls are out of range or if specified otherwise within the package insert
Sample, Clot and Bubble Detection	Yes	Yes	Yes
Reagent Pressure Monitoring	Yes	Yes	Yes
Sample Interference Measurement	No	No	No
System Control Center	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse
Onboard Maintenance Records	Yes	Yes	Yes
Online Error Code Help	Yes	Yes	Yes
Host Interface	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available
Remote Diagnostics	AbbottLink®	AbbottLink	AbbottLink
Dimension (H × W × D)	49 × 59 × 30 in/124.5 × 149.9 × 76.2 cm	48 × 61 × 49 in/121.9 × 154.9 × 124.5 cm	48 × 127 × 49 in/121.9 × 322.6 × 124.5 cm
Weight	636 lb/288 kg	1,081 lb/490.3 kg	2,162 lb/980.7 kg
Electrical Requirements	AC 110–120 V or 200–240 V, ± 10%, 50 or 60 Hz self-adjusting	AC 180–264 V/47–63 Hz	AC 180–264 V/47–63 Hz
Water Requirements	Purified water to dilute buffer concentrate	Purified water to dilute buffer concentrate	Purified water to dilute buffer concentrate
Heat Output*	2,400 BTU/hr, Running mode	4,280 BTU/hr, Running mode	See <i>i2000SR</i> specifications
Sample Loading	RSH	RSH	RSH

*Values provided represent the typical output in Running mode for the system processing module and sample handler. A maximum value of 389 BTU/hr was obtained for the system control center (SCC) using the *i2000SR* as a representative system. Values obtained during an internal study. Data on file with Abbott.

ARCHITECT SYSTEMS

DISTINGUISHING FEATURES OF ARCHITECT *ci4100*, *ci8200* and *ci16200* Systems

	<i>ci4100</i>	<i>ci8200</i>	<i>ci16200</i>
Feature	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Maximum Throughput	Up to 900 tests/hour	Up to 1,400 tests/hour	Up to 2,000 tests/hour
Sample Types	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Sample Tubes	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm	Height: 72–102 mm/Diameter: 9.6–16.1 mm
Sample Cup (Dead Volume)	Yes (50 µL)	Yes (50 µL)	Yes (50 µL)
Sample Capacity	180	365	365
Sample Barcode Types	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128	Code 39, Codabar, Interleaved 2 of 5, Code 128
Sample Result Storage	50,000	50,000	50,000
Sample Volume	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Automatic Dilution	Yes	Yes	Yes
Sample Probe Carryover	≤ 0.1 ppm	≤ 0.1 ppm	≤ 0.1 ppm
Assays Capacity Onboard	80 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)	90 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)	90 plus patented ISE (Na ⁺ , K ⁺ and Cl ⁻)
Reagent Type	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Reagent Onboard Stability	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Calibration Frequency	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Sample, Clot and Bubble Detection	Yes	Yes	Yes
Reagent Pressure Monitoring	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Sample Interference Measurement	Yes, hemolysis, icterus and lipemia	Yes, hemolysis, icterus and lipemia	Yes, hemolysis, icterus and lipemia
System Control Center	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse	1 SCC, with color touch-screen monitor, keyboard and mouse
Onboard Maintenance Records	Yes	Yes	Yes
Online Error Code Help	Yes	Yes	Yes
Host Interface	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available	Bi-directional, serial RS-232 interface, host query option available
Remote Diagnostics	AbbottLink®	AbbottLink	AbbottLink
Dimension (H × W × D)	49 × 111 × 36 in/125.1 × 281.2 × 90.7 cm	48 × 127 × 49 in/121.9 × 322.6 × 124.5 cm	48 × 127 × 49 in/121.9 × 322.6 × 124.5 cm
Weight	1,677 lb/760.7 kg	2,447 lb/1,109.9 kg	2,679 lb/1,215 kg
Electrical Requirements	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Water Requirements	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Heat Output*	See c4000 and i1000SR specifications	See c8000 and i2000SR specifications	See c16000 and i2000SR specifications
Sample Loading	RSH	RSH + carousel	RSH + carousel

*Values provided represent the typical output in Running mode for the system processing module and sample handler. A maximum value of 389 BTU/hr was obtained for the system control center (SCC) using the i2000SR as a representative system. Values obtained during an internal study. Data on file with Abbott.

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All ARCHITECT analyzers are Class 1 laser products.

