



SCIENCE THAT MAXIMIZES  
YOUR POTENTIAL.

ARCHITECT


# *c/*4100



*Put science on your side.*

ARCHITECT *ci4100*  
Immunochemistry System

EVERYDAY CHALLENGES  
MEET EVERYDAY SOLUTIONS.



By integrating immunoassay and chemistry testing on a single platform along with advanced technologies like CHEMIFLEX and FlexRate, the ARCHITECT *ci4100* can offer your laboratory the same robust science that larger-volume labs employ.

***Put science on your side.***

Refer to the Operator's manual for warnings, precautions and limitations regarding proper use of this instrument. Manuals can be found on [www.abbottiagnostics.com](http://www.abbottiagnostics.com)



### Seamless Integration

- **Immunoassay and clinical chemistry** testing on a single platform
- **≤0.1 ppm** (insignificant level) sample-to-sample carryover

### Accurate Results Fast

- **Throughput** up to 800 chemistry tests and 100 immunoassay tests per hour<sup>†</sup>
- **Immediate STAT** processing
- **Up to seven** customizable priority bays

### Easy to Operate

- **Intuitive software** with a single interface
- **Access** to reagents, samples and supplies while system is in process
- **Multiple tube types** and sizes
- **Expanded calibration** and QC capabilities



<sup>†</sup>Based on individual analyzer throughput

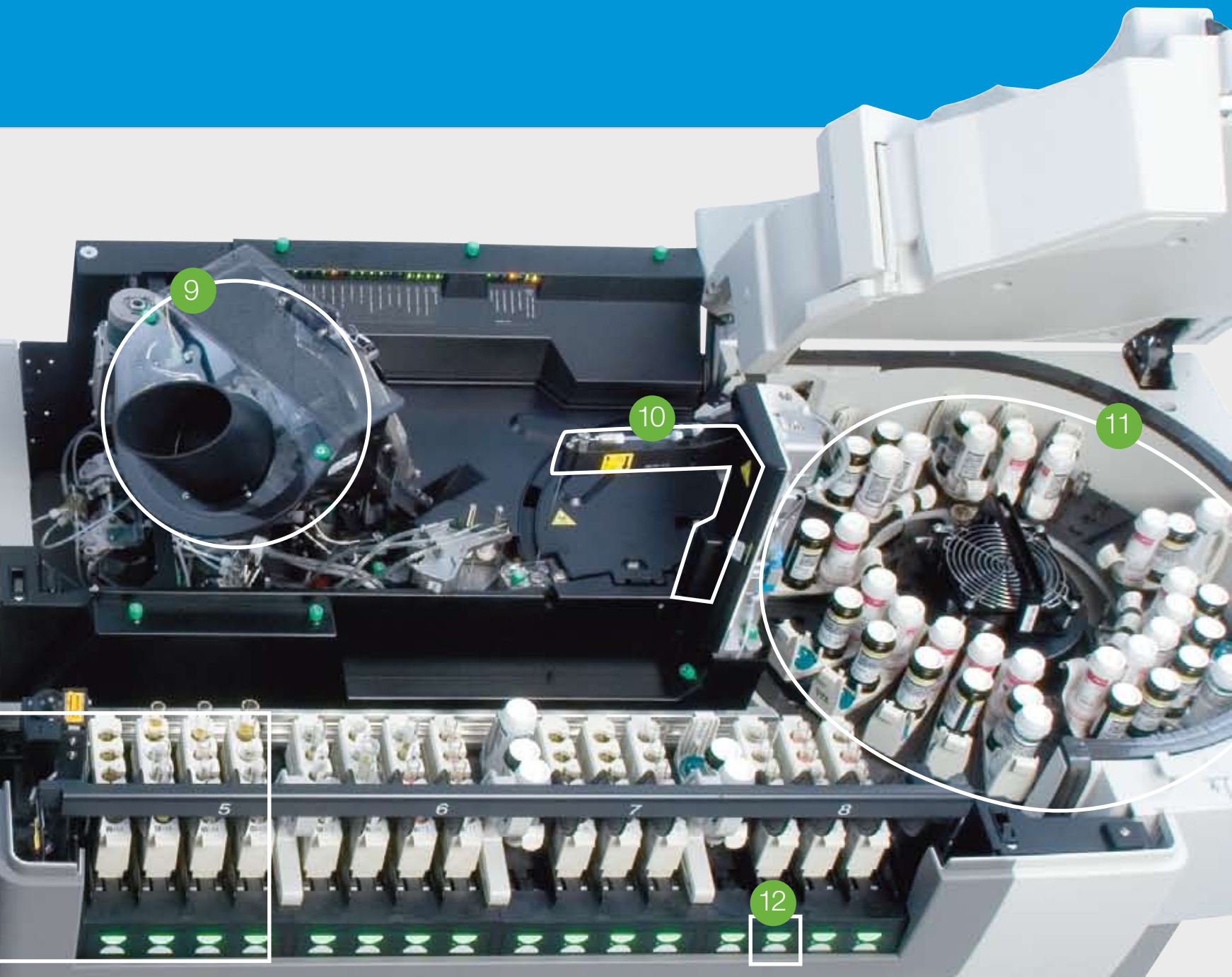
ARCHITECT *ci4100*  
Immunochemistry System

GREATER EFFICIENCY,  
OPTIMAL WORKFLOW.



- |   |                     |   |  |
|---|---------------------|---|--|
| 1 | Sample probe        | 4 | Integrated Chip Technology (ICT)                           |
| 2 | Piezoelectric mixer | 5 | Refrigerated reagent carousel (90 positions, 50-55 assays) |
| 3 | Cuvette washer      | 6 | Reagent probes (2)   |

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- 7 Customizable Priority Bays (0-7) with blue indicator lights
- 8 Robotic Sample Handler (RSH)—180 samples

- 9 Reaction vessel hopper
- 10 Reagent and sample pipettor
- 11 Refrigerated reagent carousel (25 positions)
- 12 RSH routine indicator lights

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SIMPLIFIED OPERATION.  
ROBUST SCIENCE.



ARCHITECT  
Universal  
Sample Carrier

### **Integration Without Compromise**

Abbott Diagnostics has combined seamless integration of immunoassay and clinical chemistry testing into one platform incorporating benefits such as:

- Optimized workflow: one tube for both IA and CC testing
- Prioritized samples with RSH
- Carryover control with SmartWash ( $\leq 0.1$  ppm sample-to-sample carryover; level is insignificant)

**One operator can effectively handle workload on a single platform**

ARCHITECT  
Integrated Chip  
Technology



ARCHITECT  
Universal  
Software

### Enhanced System and Assay Dynamics

The ARCHITECT family employs key features for exceptional detection, fewer reruns and reduced error such as:

- CHEMIFLEX technology
- FlexRate providing extended linear ranges
- Integrated Chip Technology (ICT) (45,000 electrolyte determinations)
- Pressure differential technology for detection of clots, bubbles, foam and insufficient volume

**Certainty and confidence  
in clinical results**

### True Family Commonality

The ARCHITECT *ci4100* exemplifies the design philosophy of the ARCHITECT family of analyzers with identical:

- Immunoassay reagents and assay protocols
- Chemistry reagents and assay protocols
- ARCHITECT software
- Universal sample carrier

**Equivalent patient results across  
all ARCHITECT analyzers and  
a simple, consistent user experience**

# SYSTEM SPECIFICATIONS

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## ARCHITECT

### ARCHITECT c4000 clinical chemistry

### ARCHITECT i1000SR immunoassay

### ARCHITECT ci4100 integration

	ARCHITECT c4000 clinical chemistry	ARCHITECT i1000SR immunoassay	ARCHITECT ci4100 integration
Detection Methods	Photometric Potentiometric Turbidimetric	CHEMIFLEX	See c4000 and i1000SR specifications
Maximum Throughput	Up to 800 tests/hour	Up to 100 tests/hour	See c4000 and i1000SR specifications
Sample Types	Serum, Plasma, Urine, CSF	Serum, Plasma, Urine	See c4000 and i1000SR 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
Pediatric Sample Cup	Yes (50 µL dead volume)	Yes (50 µL dead volume)	Yes (50 µL dead volume)
Sample Capacity	100	65	180
Sample Volume	1.5–35 µL, Average: 5 µL	10–150 µL, Average: 50 µL	See c4000 and i1000SR specifications
Automatic Dilution	Yes	Yes	Yes
Sample-to-Sample Carryover	≤0.1 parts per million	≤0.1 parts per million	≤0.1 parts per million
Reagent Capacity (Refrigerated)	Approximately 55 reagent kits onboard plus patented ICT (Na <sup>+</sup> , K <sup>+</sup> , and Cl)	25 reagent kits onboard	Approximately 80 reagent kits onboard plus patented ICT (Na <sup>+</sup> , K <sup>+</sup> , and Cl)
Reagent Type	>95% Liquid ready-to-use	100% Liquid ready-to-use	See c4000 and i1000SR specifications
Reagent Onboard Stability	5–65 days, Average: 30 days	30 days	See c4000 and i1000SR specifications
Calibration Frequency	1–60 days, Average: 25 days	As needed	See c4000 and i1000SR specifications
Sample Clot and Bubble Detection	Yes	Yes	Yes
Reagent Pressure Monitoring	Yes	Yes	Yes
Sample Interference Measurement	Hemolysis, Icterus, and Lipemia measured on the c4000		
System Control Center	A single computer with color touchscreen monitor, keyboard, and mouse		
Onboard Maintenance Logs	Yes	Yes	Yes
Online Error Code Help	Yes	Yes	Yes
Remote Diagnostics	AbbottLink	AbbottLink	AbbottLink
Dimensions (H x W x D)	49.3" x 63.1" x 35.7" 1251 x 1602 x 907 mm	49.3" x 59" x 30" 1251 x 1499 x 762 mm	49.3" x 110.7" x 35.7" 1251 x 2812 x 907 mm
Weight	1132 lbs 513.5 kg	636 lbs 288 kg	1677 lbs 760.7 kg
Electrical Requirements	AC 180-264V, 47-63 Hz, 20 Amp	AC 99-127V, 47-63 Hz, 20 Amp or AC 180-264V, 47-63 Hz, 10 Amp	See c4000 and i1000SR specifications
Water Requirements	15 L per hour during normal operation	As needed to dilute buffer concentrate	See c4000 and i1000SR specifications
Heat Output	560 BTU/hr, Standby Mode 2800 BTU/hr, Running Mode	2100 BTU/hr, Standby Mode 2400 BTU/hr, Running Mode	2600 BTU/hr, Standby Mode 4500 BTU/hr, Running Mode

ARCHITECT, CHEMIFLEX, i1000SR, ci4100, c4000, SmartWash, FlexRate, *Put science on your side.* and AbbottLink are trademarks of Abbott Laboratories in various jurisdictions. c4000 is a Class 1 Laser Product

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Diagnostics