

AU400^e™ Main Specifications and System Operations

General Characteristics

Test Menu Selection:	122
On-board Parameters:	99
Maximum Tests/Hour:	400 photometric + 400 ISE
Analytical System:	Fully selective discrete analytical
Methods:	Endpoint Endpoint with self blanking Endpoint with sample blanking Kinetic rate Fixed rate ISE
Sample Processing Selection:	Single, multiple or profile
Sample Volume:	2 - 50 μ L [0.5 μ L increments]
Sample Type:	Serum, plasma, urine, CSF
Sample Tray Capacity:	80 samples by rack 22 samples by carousel
Sample Container:	12 x 75 - 16 x 100 mm tubes 3, 5, 7, 10 mL primary collection tubes and pediatric cups
Sample Transport:	10 position bar-coded rack
STAT Sample Transport:	22 user-definable for STAT, QC, cal, routines, enclosed and refrigerated module
Sample Quality Analysis:	Lipemia, Hemolysis, Icterus Clot detection Probe crash prevention
Sample Identification:	Bar code reader [Maximum 20 digits; 95 mm]
Sample Bar Code Formats:	As mixed bar codes: NW7 Code 39 Code 128 2 of 5 interleaved 2 of 5 standard Alone: ISBT code 128 Bar code reader
Reagent Identification:	Bar code reader
Reagent Configuration:	Concentrated and full strength
Reagent Volume:	R1 and R2: 25 - 300 μ L [1 μ L increments]
Reagent Delivery:	One reagent pipettor dispensing
Reagent Storage:	4 - 12° C
Reagent Bottle Capacity:	15, 30, 60 mL
Reagent Storage Capacity:	R1 + R2 = 76 user defined
Reaction Mixture:	Minimum = 150 μ L Maximum = 550 μ L
Reaction Temperature:	37° C
Reaction Incubation Method:	Dry bath
Reaction Cell:	6 x 8 x 30 mm nondisposable glass cuvette
Reaction Time:	8 min. + 37 sec. (maximum)
Repeat Run:	Automatic repeat run Increase or decrease sample volume
Reflex Testing:	User defined
Sample Predilution:	Dilution ratio 5 - 100 by one-fold increments

ISE Module

Analytical System:	Vertical block flow cell with ISE
Analytical Tests:	Sodium [Na ⁺], Potassium [K ⁺], Chloride [Cl ⁻]
Sample Throughput:	200 samples/hour
Maximum Tests/Hour:	600, if ISE mode only
Sample Type:	Serum, plasma, urine [undiluted]
Sample Volume:	20 μ L [serum], 25 μ L [urine]
Final Dilution Ratio:	1:34.1
Measuring Range:	Serum and plasma: Sodium 50 - 200 mEq/L Potassium 1 - 10 mEq/L Chloride 50 - 200 mEq/L Urine: Sodium 10 - 400 mEq/L Potassium 2 - 300 mEq/L Chloride 25 - 400 mEq/L
Electrode Composition:	Sodium Crown-ether membrane Potassium Crown-ether membrane Chloride Molecular oriented PVC membrane Reference Liquid on liquid membrane

Optical Characteristics

Photometer:	Multi-wavelength diffraction grating spectrophotometer
Light Source:	Tungsten-halogen lamp
Photometric Modes:	Monochromatic or bichromatic
Wavelengths:	340, 380, 410, 450, 480, 520, 540, 570, 600, 660, 700, 750 and 800 nm
Light Path:	6 mm
Photodetector:	Silicon photo cell
Photometric Range:	0 to 2.5
Photometric Sensitivity:	0.0001 OD

Data Processor

Interface:	Standard RS232C; bidirectional Real time and batch processing
Program Storage:	\geq 10 GB hard drive
Patient Storage:	30,000 files
Data Input:	Alphanumeric keyboard, mouse or interface
Display:	17 in. flat screen monitor
Printer:	Dot matrix
Software:	Windows NT® Graphic user interface Modem-linked technical support Online HELP program User defined parameter window Real time QC Reaction curve monitor User defined repeat run criteria Reflex testing Daily test statistics User defined calculated tests Sample and test oriented data editing CLIA software package System status screens Advanced calibration Auto-QC

Electrical Requirements

Electrical Consumption:	3.5 KVA
Current [Circuit Breaker Required]:	20 Amp [standard] 30 Amp with UPS
Circuit:	Dedicated and noise free
Voltage:	208/220 VAC [±10%] single phase
Frequency:	60 [±1 Hz]
Ground Requirements:	Resistance < 100 ohms
Location:	Power cable length 10 m

Environmental Requirements

Average Heat Output:	5,000 BTU
Ambient Temperature:	18 - 32 ± 2° C during measurement
Ambient Humidity:	40 - 80% relative humidity
Water Consumption:	20 L/hour
Water Type:	Deionized CAP Type II, bacteria free
Supply:	Continuous flow
Resistivity:	> 1 Megaohm
Pressure:	7 - 57 PSI
Control:	Shut off valve within 30 ft.

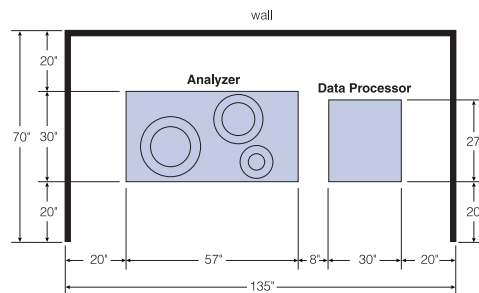
Drain Requirements

Non-hazardous Waste:	Floor drain required Maximum height - 4 in. gravity Optional waste pump unit Maximum height - 4 ft.
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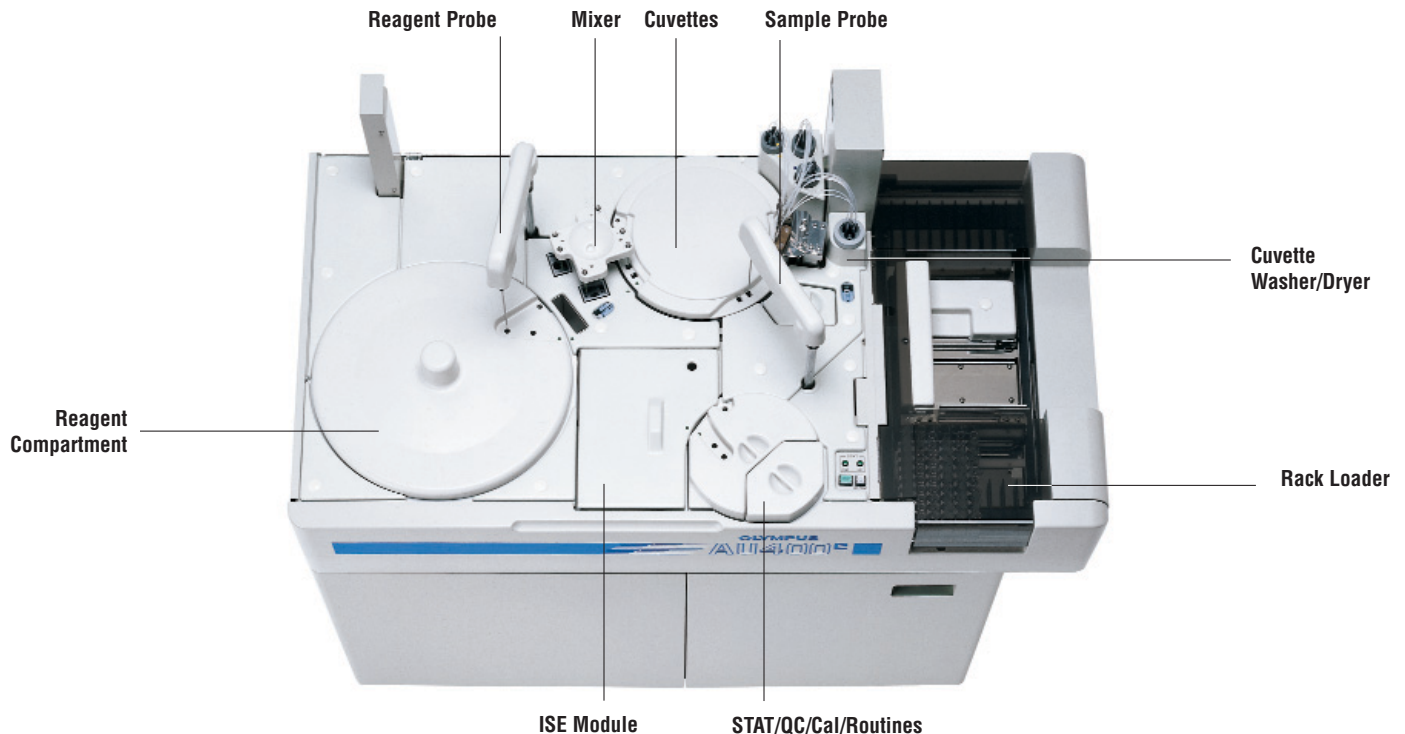
Dimensions

Width:	57.1 in.
Depth:	29.9 in.
Height:	47.6 in.
Weight:	924 lbs.

Installation Requirements



Olympus AU400^e Components



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