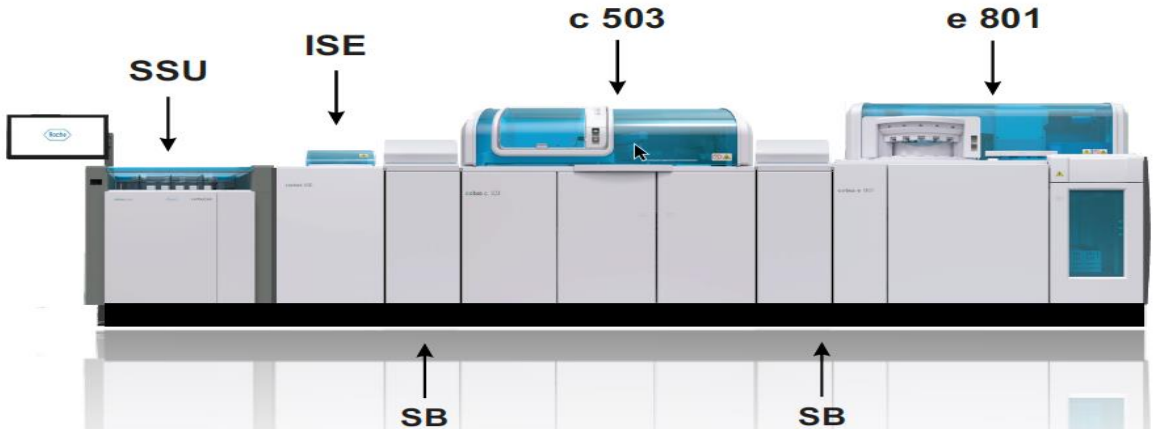
cobas® pro integrated solutions

Site Requirements V2s1

Sample Supply unit	ISE Unit	cobas c 503 unit	cobas e 801 unit
Up to **1000** samples per hour processing capacity Up to **300** samples direct loading Up to **300** samples direct unloading or bi-directional connectivity to lab automation	Up to **300** samples per hour **Up to 900** tests per hour	Up to **1000** tests per hour Reaction time : 3-10 minutes Up to **60** reagent positions RFID label	Up to 300 tests per hour Up to 48 reagent positions Reaction time: 9/18/27

Disclaimer



This Pre-Installation Site Checklist does not replace any user or service manual.
The site requirement document can be used as a basis for the pre-installation discussion with the customer.

Dimensions: ☐ W x D x H	SSU Including monitor	ISE module	c 503 including sample buffer	e801 Including sample buffer
	52 x 38 x 56 in.	18 x 46 x 46 in.	61 x 46 x 53 in	61 x 46 x 53 in
☐ Weight	551 lbs.	337 lbs.	1336 lbs.	1448 lbs

☐ The floor should have a grade (rise or fall) less than 1/200 within the footprint of the system.

Electrical Power Requirements

☐ Source

·Two 115 VAC +/- 10% / 60Hz -standard wall receptacle [5-15R connection]
·208 VAC 50 amp 1 connection required (**2 modules**)
·208 VAC 50 amp 2 connections required (**3-4 modules**)

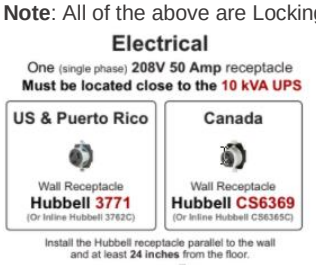
Two 15 Amp circuits will supply power to:
1. Roche Service use.
2. HP LaserJet Printer

50 AMP (Load tested) - Two (2) options***: United States***
1. Wall mounted Hubbell # 3771, 3-Wire 50 A, 250VDC - 600VAC
2. Cord mounted Hubbell# 3762C, 3 Wire 50 A, 250VDC - 600VAC

Note: All of the above are Locking Single Receptacles

50 AMP (Load tested) – Two (2) options: ***Canada***
1. Wall mounted Hubbell #6369CR, Outlet twist lock non-NEMA 50A
2. Cord mounted Hubbell # CS6364, 50A, 125/250VAC Female Power Plu

Note: All of the above are Locking Single Receptacles



☐ Power Consumption - Entire System 10 kVA (ISE, c503, and e801 plus sample supply unit and sample buffers)

☐ Power outlet (208V 50 amp) must be within 30 ft of the analyzer.

☐ Power outlet (115V 15 amp) must be within 8 ft of the printer/firewall/cobas link cart.

☐ It is recommended for the power to be fed from Emergency power (Generator backed up).

☐ A ground lead measuring less than 10 ohm with respect to earth ground is required. Safety ground must not be able to assume any potential above any grounded fixture located in the immediate vicinity of the analyzer (0.1 VAC maximum).

NOTE: Roche through an agreement with a power supply vendor provides an Uninterruptible Power Supply or Supplies (UPS) as part of the **cobas** pro analyzer series shipment. These UPS(s) provide power conditioning and short term AC power (5-10 minutes). If the site already has an Uninterruptible Supply built-into the facility, then it is not recommended that the Roche provided supplies be utilized (Uninterruptible supply should not be powered by another uninterruptible supply).

	ISE module	c 503	E 801
Liquid Waste Volume			
☐	Concentrated liquid waste volume: < 2.0 L/h	Concentrated liquid waste volume: < 2 L/h Normal liquid waste volume:<30 L/h	Concentrated liquid waste volume: ≤ 7 L/h Normal liquid waste volume: <22 L/h

☐ Floor drain required ≥ 2 inches ID and within 4 inches of the floor

☐ Floor drain must be located within 16 ft of the analyzer

☐ Waste is by gravity discharge

Deionized Water Consumption

☐ Average in Operation:	2 L/h	32 L/h	30 L/h

☐ Clinical Laboratory Reagent Water (CLRW)

- Bacteria <10 CFU/mL Resistivity >10 MΩ.cm Total Organic Carbon(TOC) 500 PPB Particles 0.2um filtration or better

☐ Pressure 7.3 to 49.3 psi. Customer supplies a gauge and regulator valve to monitor and adjust water pressure.

☐ Temperature 54 to 86 °F (10 – 30°C)

☐ Customer supplies an approved shutoff valve near the analyzer. 5/8 hose barb with an internal diameter of 1/2 inch supplied by customer. DI water components must be either PVC or Stainless steel.

☐ Any dead leg tubing **must** be < 10 feet.

***Note**: It has been found that systems utilizing a re-circulation/polishing loop, with a minimal velocity of 5 ft/sec. and a 0.2 micron output filter, have been extremely effective in minimizing bacterial growth and maintaining overall water quality.*

***Note**: If an acceptable floor or wall drain cannot be provided, the facility may provide, at their own discretion, an automated waste pumping solution (ie. separate waste container and "sump pump") capable of safely and effectively eliminating analyzer waste at the specified discharge rate.*

	SSU	ISE module	c 503	e 801
Environmental				
☐ Ambient Temperature	64 - 89° F in operation ≤ 3.6° F Δ/h			
☐ Relative Humidity	30 – 85% non-condensing			
☐ Noise emissions to Environment	<65 dbA in Operation/<56 dbA in STBY			
☐ Heat Dissipation				
(BTU/h)w/SB	2730	1365	8190	6824

☐ Normal altitude above sea level	6562 ft	6562 ft
☐ Max. altitude above sea level with high altitude kit	9843 ft	9843 ft

☐ The environment should be relatively dust and vibration free.

☐ The cobas pro integrated solutions should be located ample distance away from any equipment generating electromagnetic noise or electromagnetic wave interference (such as centrifuge, electric discharge machine, mobile telephone, transceiver, cordless telephone, etc

Routing Considerations (Uncrated)

☐ Is there a loading dock or other suitable facility to allow the analyzer to be safely unloaded?

☐ Truck with lift gate or Forklift needed? Is a forklift available onsite?

☐ Is there any restriction to the length of truck that will be used to deliver the analyzer?

☐ Is there any restriction on delivery times/days?

☐ Is there an unpacking location available?

Additional Considerations

☐ Installation Clearance: Minimum door width (opening) – 36 in. Minimum door height – 69 in. Minimum turning radius – 60 in.

☐ Elevator Clearance (if necessary): Width - 36 in. Depth - 48 in.

☐ Clearance for proper circulation and accessibility: Right: 24 in. Front: 39 in. Back: 28 in.

☐ Adequate ventilation in the immediate area of operation should be provided without airflow directly onto or across the top of the analyzer.

☐ The **cobas** pro analyzer should be located ample distance away from any equipment generating electromagnetic noise or electromagnetic wave interference such as centrifuge, electric discharge machine.

☐ System should be protected from direct sunlight.

☐ Adequate refrigerated storage at 2 to 8 °C **must** be available.

☐ Access for Maintenance is as follows:

It is recommended to have **at least** 16" on the right side, 40" at the front and a necessary space of 28" at the back to ensure proper air circulation and accessibility for maintenance and operation.

Network Connections

☐ A wired 10/100/1000 RJ45 female connection (1 drop per system) to the customer's network

☐ Roche provides a Firewall. The use of the Firewall is mandatory and requires a static IP address. See separate Firewall pre-site document.

☐ The communication is outbound through port 443 (HTTPS) and port 80 (HTTP with secure payload). Secure payload means that the data is encrypted, signed, and zipped. Protocols used are HTTP, HTTPS, SSH, SOAP, and BITS.

☐ For outbound LIS communication the Firewall will require access to the customers LIS over specific ports.

☐ For inbound LIS communication, the LIS will require access to the Firewall's static IP address.

☐ If installing at a VA account please follow IPB for Axeda setup – Veterans Affairs VPN Procedure

☐ For Roche remote diagnostics, Axeda, the Firewall's static IP address will need access to:

IP Address	Outbound Port	Host name
196.3.50.39	80	teleservice.roche.com**
62.209.44.11	443	remoteservice.roche.com
209.202.167.21	443	remoteservice-dr.roche.com
62.209.44.21	443	remoteservice-gas1.roche.com
62.209.44.22	443	remoteservice-gas2.roche.com
209.202.167.19	443	remoteservice-gas3.roche.com
209.202.167.20	443	remoteservice-gas4.roche.com
120.136.45.231	443	remoteservice-gas5.roche.com
120.136.45.230	443	remoteservice-gas6.roche.com

Cart

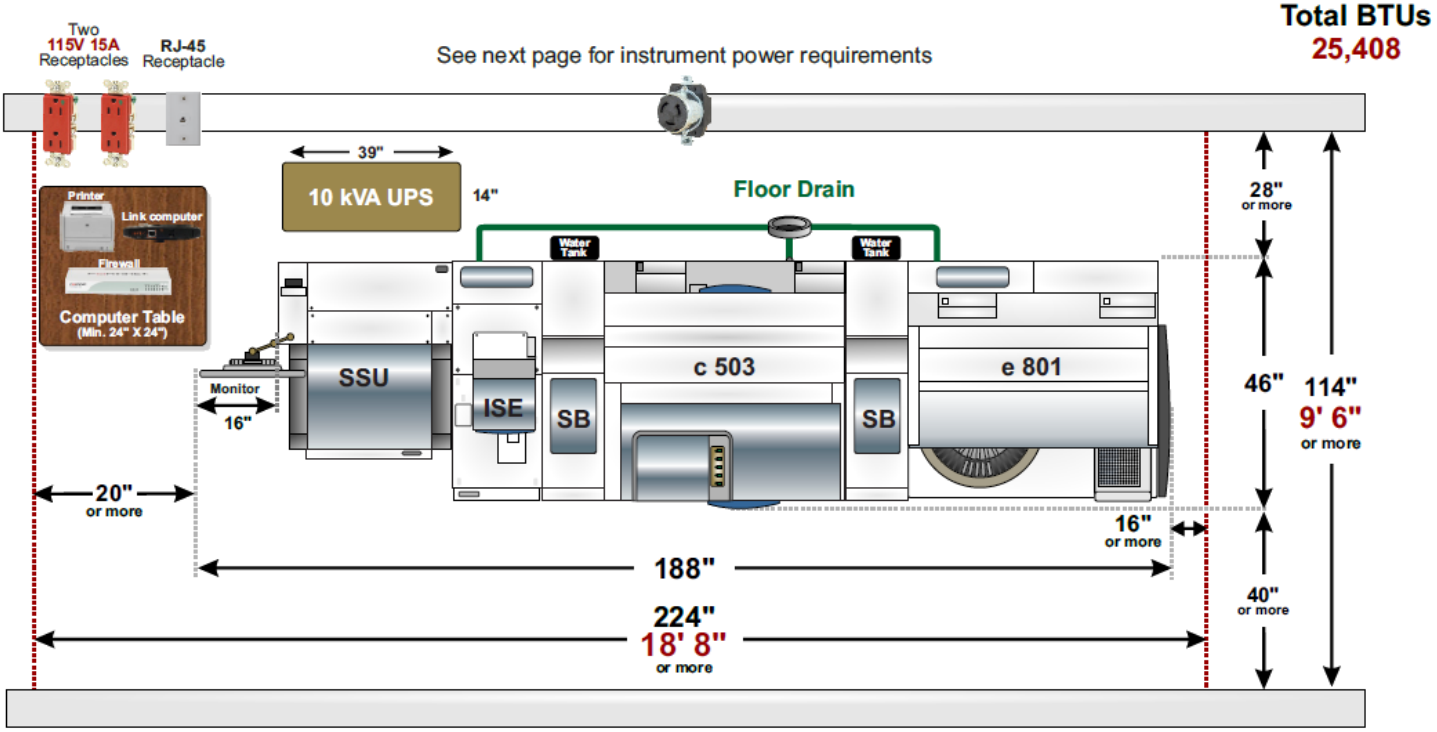
- □ A cart will be **optional**. There are two options: 24 in wide standing cart and a 36 in wide sitting cart.
- □ Cart **must** be on the left side of the instrument under the monitor

Configurations	Total length Including Monitor (To stat port)
	in
<ISE | c503>	129 (113)
<ISE | c503 | e801>	188 (172)
<ISE | c503 | ISE | c503>	206 (190)
<ISE | c503 | ISE | c503 | e801>	265 (249)
<ISE | c503 | e801 | e801>	247 (231)
<ISE | c503 | ISE | c503 | e801 | e801>	324 (308)
<ISE | c503 | e801 | e801 | e801>	307 (291)
<e801>	111 (95)
<e801 | e801>	171 (155)
<e801 | e801 | e801>	230 (214)
<e801 | e801 | e801 | e801>	289 (273)

Visual Guide
ISE / c 503 / e 801

cobas pro
19,109 BTUs
UPS
4,239 BTUs
cobas Link
132 BTUs
Firewall
51 BTUs
Printer
1877 BTUs

Total BTUs
25,408



The cobas pro is approximately
(Not including UPS or computer table)
4,500 lbs

Visual Guide
ISE / c 503 / e 801

Water

CLRW grade DI water @ 7.3 to 50 PSI

Operational Consumption= 61 L/Hr
Maximum Consumption = 64 L/Hr
Required Flow Rate = 70 L/Hr

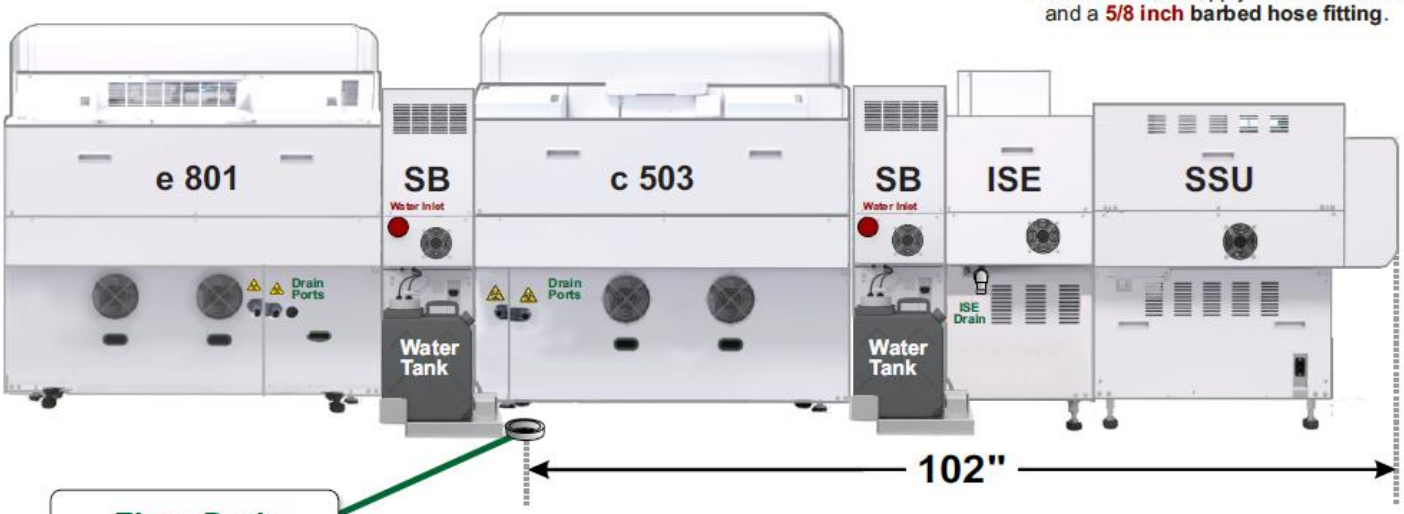
Tubing on this side of the valve will be supplied by Roche

To SB

To SB

To DI Water System
All components need to be either PVC or Stainless Steel

Customer Supplied
Customer must supply a shut-off valve and a 5/8 inch barbed hose fitting.



Floor Drain
≥2 inches ID
< 4 inches

10 kVA UPS

208V - 50A
Single Phase

US & Puerto Rico
Wall Receptacle
Hubbell 3771
(Or Inline Hubbell 3762C)

or

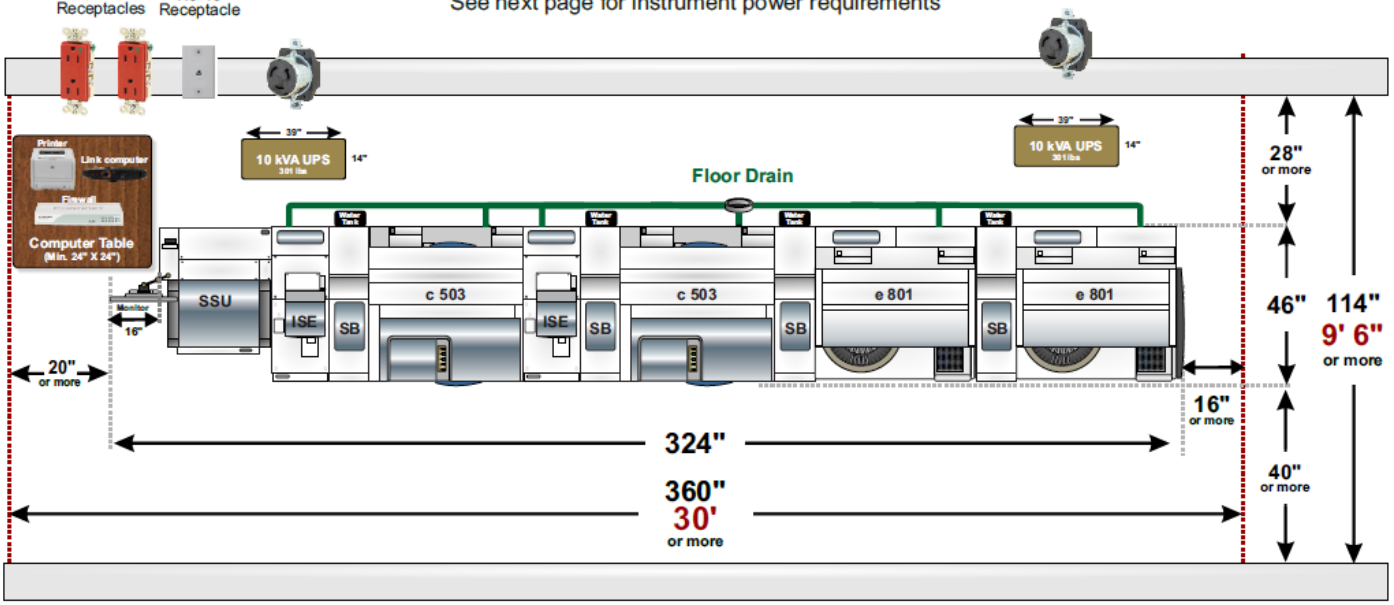
Canada
Wall Receptacle
Hubbell CS6369
(Or Inline Hubbell CS6365C)

Visual Guide

ISE / c 503 / c 503 / e 801 / e 801

cobas pro
35,488 BTUs
2 UPS
8,478 BTUs
cobas Link
132 BTUs
Firewall
51 BTUs
Printer
1877 BTUs

Total BTUs
46,026



The cobas pro is approximately
(Not including UPSs or computer table)
8,300 lbs

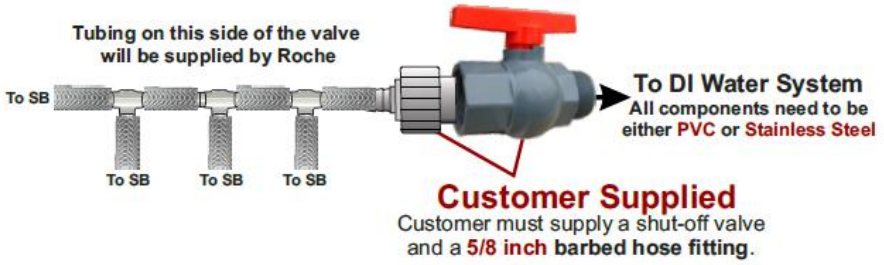
Visual Guide

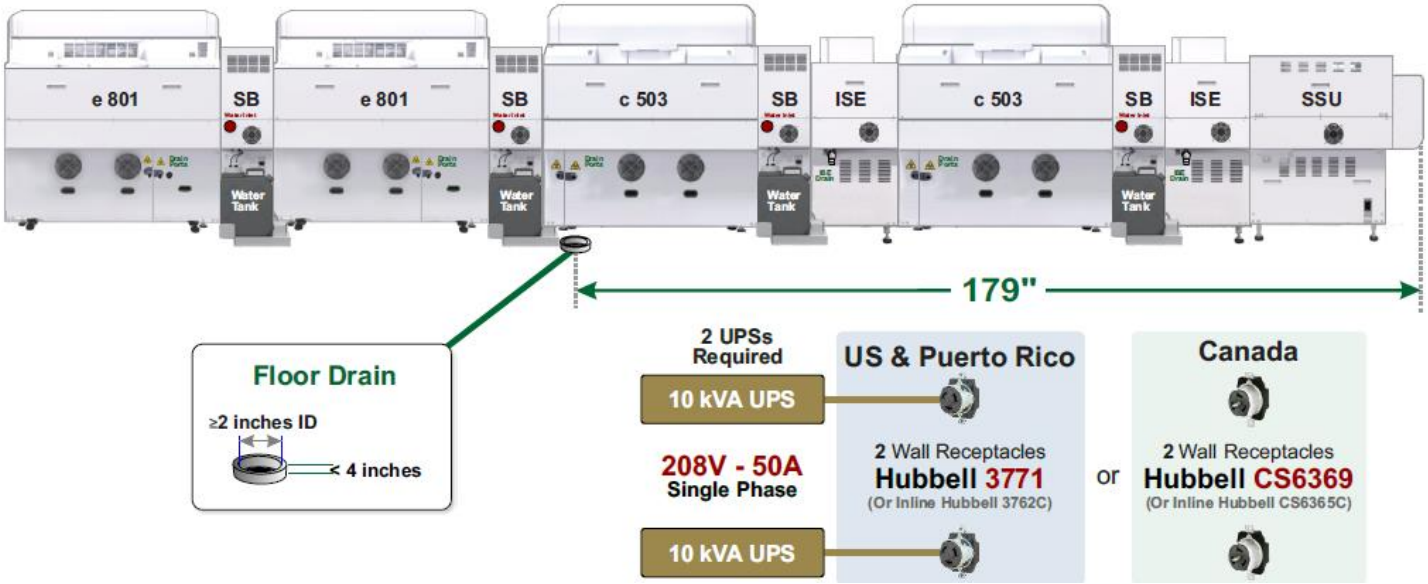
ISE / c 503 / c 503 / e 801 / e 801

Water

CLRW grade DI water @ 7.3 to 50 PSI

Operational Consumption= 124 L/Hr
Maximum Consumption =132 L/Hr
Required Flow Rate = 160 L/Hr





Important: The strict adherence to the site requirements contained in this document is an essential component in achieving a successful and compliant installation. Any delays in site requirement implementation over the jointly agreed dates can have a negative impact on and delay instrument shipment and/or installation. Deviations from these site specifications should be reported to the Roche Technical Support Center (1-800-428-2336).

Notes