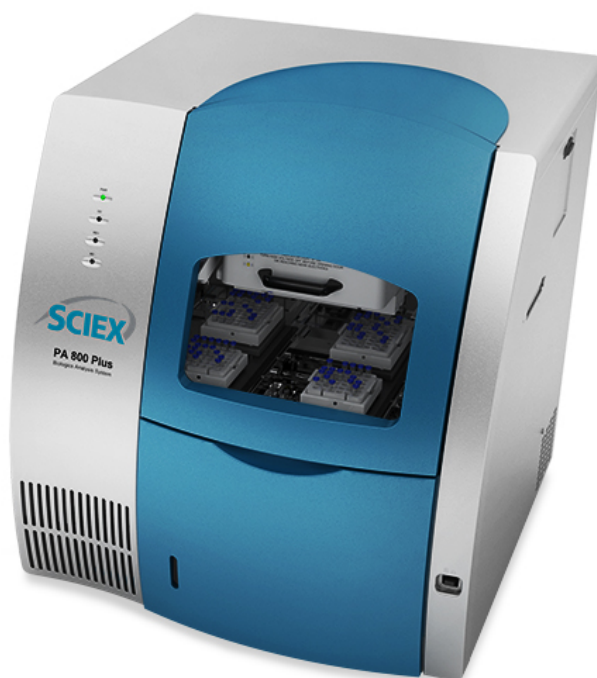




PA 800 Plus Pharmaceutical Analysis System

Site Planning Guide



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Introduction

1

This guide is for the site planner, the individual responsible for preparing the facility for the installation of the system.

Note: For safety and regulatory information, refer to the *System Overview Guide*.

Customer Site Planner Responsibilities

Complete the [Site Planning Checklist](#) in consultation with facilities services personnel (electrical, ventilation, and information technology [IT]), and return it to the SCIEX field service employee (FSE) before the completion date. Refer to [Signoff](#).

Note: The FSE will follow up if the checklist is not received prior to the scheduled installation date.

- Verify that adequate space and the required shipping or receiving facilities are available. Refer to [Site Layout Requirements](#).
- Provide all required electrical receptacles. Refer to [Electrical Requirements](#).
- Verify that the requirements for ventilation and waste collection are met. Refer to [Ventilation and Waste Collection Requirements](#).
- Verify that the requirements for the operating environment are met. Refer to [Environmental Requirements](#).
- Verify that the requirements for the computer and network are met. Refer to [Computer, Software, and Network Requirements](#).
- Verify that all required solutions and laboratory supplies are available. Refer to [Customer-Supplied Solutions and Equipment](#).
- Verify that up to two operators have been identified for training. Refer to [Customer Preparation Requirements](#).
- When the shipment arrives, inspect the packaging exterior for damage. If there is any damage, then note any issues on the delivery receipt and notify SCIEX immediately.
- Contact SCIEX Customer Service or the local FSE to schedule the installation.

FSE Responsibilities

Note: If the site preparation tasks are not complete when the SCIEX Field Service Employee (FSE) arrives, then the scheduled installation will be postponed.

- Review the checklist and discuss outstanding issues with the site planner.
- Unpack and set up the CE equipment.
- Verify the performance of the system.

During Installation



WARNING! Lifting Hazard. Make sure that at least four people or a lifting device are available to lift the CE system. Follow established safe lifting procedures.

The FSE unpacks the system (with the assistance of customer staff), sets up the system, and then confirms its operation. When the system is installed, the FSE conducts an installation qualification.

Customer Familiarization

During installation, the FSE provides a system and software overview, reviews data, and provides some basic operator familiarization.

Technical Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com.

Site Planning Checklist

2

Customer Information

Contact name			
Organization			
Address			
City			
State/Province/Region		ZIP code/Postal code	
Country			
Telephone			
E-mail address			

Requirements

Site Layout

Refer to [Site Layout Requirements](#).

Requirements	Complete
There is adequate lab space to accommodate the equipment.	
Additional personnel or lifting equipment are available to help the FSE move the equipment. Four people are recommended.	
A moveable or fixed bench that meets the physical requirements (dimensions and weight) of the system as listed in Weights and Dimensions . If the bench is fixed, then there is 10.2 cm (4 inches) of clearance on all sides for service access. Make sure that the bench can support the weight of the system.	

Site Planning Checklist

Electrical Requirements

Refer to [Electrical Requirements](#).

Requirement	Complete	N/A
Installation of electrical supplies and fixtures complies with local regulations and safety standards.		
One branch circuit is provided for the CE components. Three AC mains supply outlets are required. Note: Do not use extension cords.		
The mains supply voltage does not fluctuate more than $\pm 10\%$ from the nominal voltage.		
The mains supply includes a correctly installed protective earth conductor.		
A qualified electrician has determined the appropriate mains supply configuration based on the system electrical specifications. Refer to System Electrical Specifications .		

Ventilation and Waste Collection Requirements

Refer to [Ventilation and Waste Collection Requirements](#).

Requirement	Complete
Ventilation of the laboratory environment in which the system will be used complies with local regulations and the air exchange rate is appropriate for the work performed.	
Waste containers are available as required by local regulations.	

Environmental Requirements

Refer to [Environmental Requirements](#).

Requirement	Complete
The altitude does not exceed 2000 m (6562 ft) above sea level.	
Temperature and humidity requirements have been met.	

BioSafety Requirements

Refer to [BioSafety Requirements](#).

Requirement	Complete	N/A
The site is not designated as BioSafety Level 3 (BSL-3) or BioSafety Level 4 (BSL-4).		

Computer, Network, and Software Requirements

Refer to [Computer, Software, and Network Requirements](#).

Requirement	Complete
A table or bench is provided for the controller, located within 1 m (39 inches) of the system.	
(Optional) A network printer or a dedicated printer and necessary print drivers are available.	
(Optional) An active, tested LAN connection is available.	

Solutions and Equipment Requirements

Refer to [Customer-Supplied Solutions and Equipment](#).

Requirement	Complete	N/A
All of the required solutions and bottles are available.		

Customer Preparation

Refer to [Customer Preparation Requirements](#).

Requirement	Complete
Up to two customers have been identified for familiarization.	

Customer Profile

(Optional) To allow the FSE to provide site-specific familiarization, enter the following information.

Number of operators		
Years of experience with capillary electrophoresis		
Applications to be performed		
If known, which detectors will be used?		
PDA	LIF	UV

Comments and Exceptions

Signoff

Site planner contact name		Completion date (yyyy-mm-dd)	
I acknowledge that all of the installation requirements, as specified in this document, have been met.			
FSE name		Return date (yyyy-mm-dd)	
FSE e-mail			

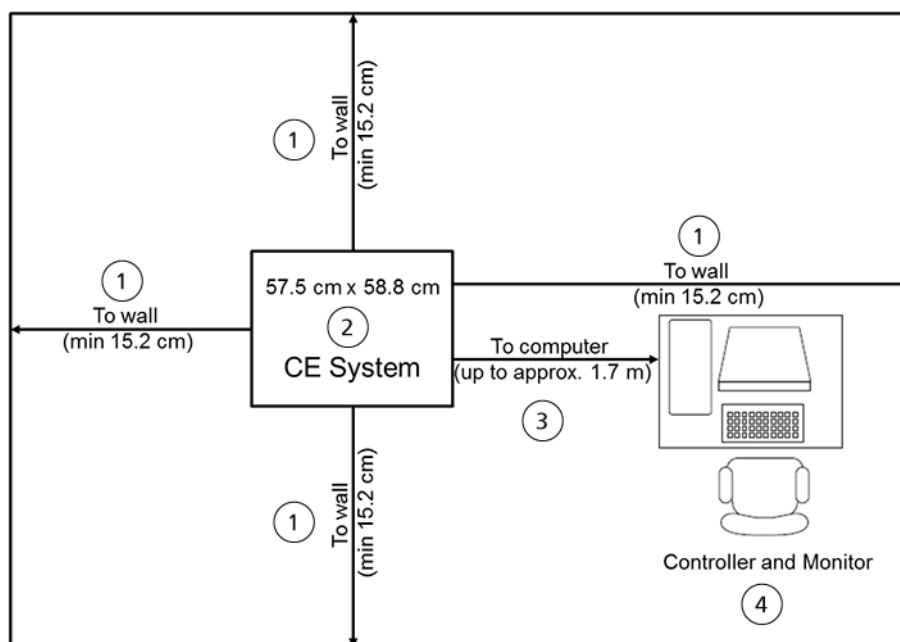
Site Layout Requirements

[Return to checklist.](#)

Laboratory Layout and Clearances

- The location allows at least 15.2 cm (6 inches) on all sides of the system.
- The location is away from heaters or cooling ducts, and not in direct sunlight.
- The location is away from vibrating equipment, such as refrigerators or centrifuges.

Figure A-1 Suggested Laboratory Layout



Site Requirements

Item	Description
1	Distance to wall, minimum 15.2 cm (6 inches)
2	PA 800 Plus system
3	Distance to controller, maximum 1.7 m (67 inches)
4	Controller and monitor

Weights and Dimensions

Refer to the following table for weights and dimensions and make sure that the system can be moved to the installation site. Make sure that the installation site can accommodate the equipment dimensions, weight, and associated clearance.

Equipment	Height	Width	Depth	Weight
PA 800 Plus system	Cover open: 98.6 cm (38.8 inches) Cover closed: 74.2 cm (29.2 inches)	63.5 cm (25 inches)	72.1 cm (28.4 inches)	85.3 kg (188 lbs)

Electrical Requirements

[Return to checklist.](#)



WARNING! Electrical Shock Hazard. Use only qualified personnel for the installation of all of the electrical supplies and fixtures, and make sure that all of the installations adhere to local regulations and safety standards.

Provide a branch circuit with an AC mains supply outlet for the system, the controller, and the monitor.

Do not use extension cords.

Mains Supply Connections



WARNING! Electrical Shock Hazard. Make sure that the system can be disconnected from the mains supply outlet in an emergency. Do not block the mains supply outlet.

Mains Supply Fluctuations

The PA 800 Plus system requires consistent voltage between 100 VAC to 240 VAC.

Protective Earth Conductor



WARNING! Electrical Shock Hazard. Do not intentionally interrupt the protective earth conductor. Any interruption of the protective earth conductor creates an electrical shock hazard.

The mains supply must include a correctly installed protective earth conductor that must be installed or inspected by a qualified electrician before the system is connected.

System Electrical Specifications

Note: Specifications are subject to change without notice.

Site Requirements

Table A-1 PA 800 Plus Pharmaceutical Analysis System Electrical Specifications

Specification	Value
Nominal input voltage	Instrument: 100 VAC to 240 VAC, auto-ranging
Frequency	50 Hz or 60 Hz
Maximum input current	Instrument: 5 A

Ventilation and Waste Collection Requirements

[Return to checklist.](#)

Ventilation Requirements

Refer to the "Laboratories" chapter in *ASHRAE, 2011 Handbook - HVAC Applications* for recommended laboratory ventilation guidance.

Waste Collection Requirements



WARNING! Biohazard, Toxic Chemical Hazard. Follow local directives when disposing of chemicals, vials and caps, and the remains of the prepared samples, if applicable. They might contain regulated compounds and biohazardous agents.

Environmental Requirements

[Return to checklist.](#)

- Altitude not exceeding 2000 m (6562 feet) above sea level
- An ambient temperature of 15 °C to 30 °C (59 °F to 86 °F)
- Relative humidity from 20% to 60%, non-condensing

BioSafety Requirements

The site must not be designated BioSafety Level 3 (BSL-3) or BioSafety Level 4 (BSL-4). SCIEX does not install, service, or repair SCIEX systems in areas designated BSL-3 or BSL-4.

Computer, Software, and Network Requirements

[Return to checklist.](#)

A computer (also referred to as a "controller") and monitor are supplied with the PA 800 Plus system.

Controller Requirements

The controller and monitor are provided with the CE system.

CAUTION: Potential System Damage. Other than security software, do not install additional software on the controller. Changes to the configured software could void the system warranty and cause the system to stop operating. All operators require read/write access to the C:\32Karat folder.

Printer Requirements

The system can be connected to a network or dedicated printer.

LAN Connection (Optional)

The controller can be connected to the network.

Customer-Supplied Solutions and Equipment

[Return to checklist.](#)



WARNING! Toxic Chemical Hazard. Refer to the chemical product *Safety Data Sheets* and follow all of the recommended safety procedures when handling, storing, and disposing of chemicals. For health and safety precautions, refer to the *System Overview Guide*.

General Equipment

- Appropriate personal protective equipment (PPE)
- Lint-free wipes
- Pipettors (2 μ L, 10 μ L, 20 μ L, 100 μ L or 200 μ L, and 1 mL) and appropriate tips

Reagents

- Double-deionized (DDI) water (MS-grade water filtered through a 0.2 μ m filter and with resistance above 18 M Ω)

Site Requirements

- 0.1 N HCl (Sigma PN 84428 or equivalent)
- 0.1 N NaOH (SCIEX PN 338424 or equivalent)
- Methanol (Fisher PN A454 or equivalent)

Customer Preparation Requirements

[Return to checklist.](#)

After the system has been installed, an FSE will demonstrate basic system operation to up to two operators. Operators should be available for the entire training period.

Equipment Safety Categories

B

Description	Category
Equipment pollution degree	Pollution Degree 2

Note: Environments with a Pollution Degree 2 rating include laboratories and sales and commercial areas.

For more information, refer to the International Electrotechnical Commission standards IEC 61010-1 and IEC 60364.

Revision History

Revision	Reason for Change	Date
B25806AA	First release. Applies to PA 800 plus Software Version 10.1 (includes 32 Karat software) and PA 800 plus Firmware version 10.1 (incompatible with 9.x)	January 2013
B25806AB	The following section changed subsequent to revision AA: CHAPTER 3, Computer Specifications.	June 2014
RUO-IVD-01-5329-A B25806AC	Applied new template. Re-branded. Changed document name from <i>Preinstallation Manual</i> to <i>Site Planning Guide</i> . Deleted system and computer specifications, they are now included in the <i>System Overview Guide</i> .	March 2018