PPSQ-51A/53A Gradient System

Pre-Installation Requirements

(Installation Preparations/Confirmation)



ANALYTICAL & MEASURING INSTRUMENTS DIVISION

1. Introduction

This pre-installation requirements document describes the preparations that need to be performed by the customer in advance of installation in order to ensure the installation process can be accomplished smoothly.

Following these guidelines will help ensure the installation remains stable and the system will provide highly reliable analytical results. It will also extend the service life of the equipment.

2. Installation Conditions

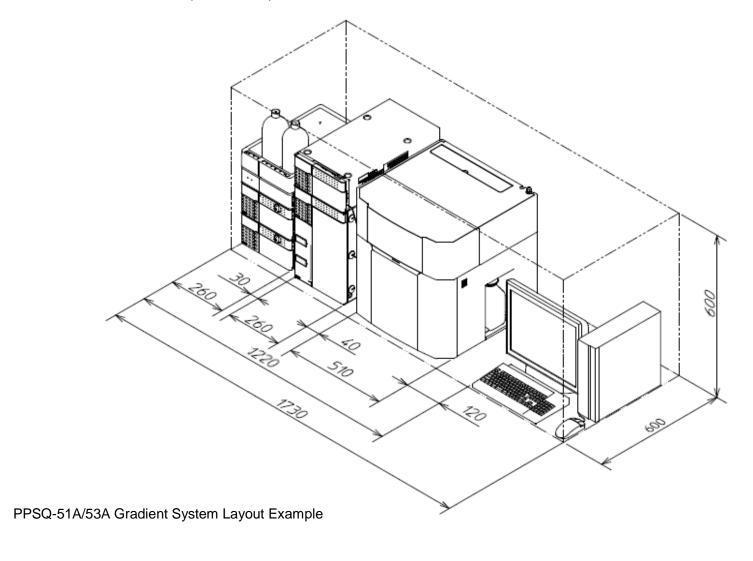
To ensure the system is used correctly and safely, always observe the installation precautions indicated below.

2.1 Installation Space

The PPSQ-51A/53A Gradient system is designed to be operated on a table or other such stand.

To provide adequate space for connecting cables or tubing to the back of the instrument, provide a stable table with a table top that is somewhat larger than the space required for the system and a height that allows performing analysis work in the sitting position (about 60 cm to 80 cm high).

A printer is not included in the example below. If the printer will be placed on the table, then make sure the table allows space for the printer as well.



2.2 Dry Weight

About 120 kgf (Without PC System) (PPSQ main unit: 50kgf approx.)

2.3 Corrosive Gases and Dust

To maintain analyzer performance and service life, avoid locating the system where it is exposed to corrosive gasses or high levels of dust.

2.4 Electromagnetic Noise

Do not locate the instruments near any equipment that generates a strong electromagnetic field. If the power line has a high level of noise, take makes to reduce the noise (by adding a noise filter, etc.).

2.5 Operating Environment Conditions

Ambient temperature between 17 °C and 28 °C, with minimal daily temperature variations.

Not exposed to direct air flow from heating or cooling system.

Not subject to direct sunlight.

No vibration.

Between 45% and 85% relative humidity.

2.6 Power Supply Requirements

Single-phase 120/230 V AC, 50/60 Hz, 1350 VA

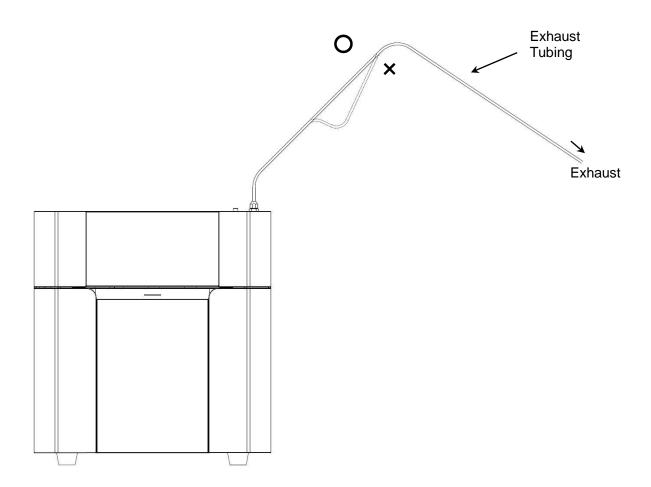
Provide 3-prong power supply outlet.

2.7 Ventilation and Flame Precautions

Flammable and toxic reagents and solvents are used in this system. Therefore, always ventilate the room where the system is installed.

Do not allow any open flames at the installation site. Also, avoid locating any equipment that generates a spark in the same room.

The exhaust tube provided with this system has an outside diameter of 6 mm. The length of an attached exhaust tube is 20m.



2.8 High Pressure Gas

This system uses high pressure gas cylinders (99.9999% nitrogen gas).

Secure cylinders to prevent them from tipping over and strictly observe applicable local laws about high pressure gas control.

2.9 Personal Computer

PC is not included in PPSQ-50A system and must be prepared as local purchases.

A personal computer is necessary at installation of PPSQ-50A to control the device and data processing with PPSQ software and LabSolution.

The specification of PC needs to satisfy spec of LabSolution operates.

(Refer to latest Products News for LabSolutions.)

OS	Windows 10 Pro, English/Chinese 64bit version			
CPU	Intel Core i5 equivalent processor with a clock frequency of 2.5GHz or faster.			
RAM	4 GB min.			
HDD	40GB min.			
LAN	100BASE-T / 100BASE-TX			
	(Acquisition Controller: x 2-port, Client PC: x 1-port)			
Display	High Color (65536 color) min SXGA (1,280×1,024) min.			
Other	Includes a drive that can read CD-ROM and DVD-ROM. *1			
Peripheral				
Equipment				
Required				

3. Other Items to Prepare

3.1 Tools

- · Glassware kit
- · Sample Tubes (1.5 mL size is preferable)
- Pipette (1 mL and 100 μL)
- Pipette Tips (1 mL and 100 µL)
- Wiper (lint-free cloth) and Parafilm

3.2 Reagent and Consumables

• All reagents(*1) are required at installation.

Reagent	Type Name		
R1 reagent	Wako Code 161-27341		
R2GR reagent	Wako Code 132-18821		
R3 reagent	Wako Code 207-20031		
R4 reagent	Wako Code 202-20721		
S2 reagent	Wako Code 052-09041		
S3 reagent	Wako Code 033-24371		
S4B reagent	Wako Code 018-26041		
Glass fiber disk	Wako Code 072-06461		
WakoPak PTH-GR	Wako Code 236-63981		
PTH AA mobile phase A	Wako Code 163-28261		
PTH AA mobile phase B	Wako Code 160-28271		
PTH-AA standard	Wako Code 165-27361		
Sequa-brene	Sigma-Aldrich S2667		
Apomyoglobin	Sigma-Aldrich A8673		
Distilled Water	HPLC grade		
2-Propanol			
Methanol	HPLC grade		
Acetonitrile	HPLC grade		
Formic acid			
PVDF membrane	S292-31326-91		
5mM acetic acid solution	For adjustment of Apomyoglobin		

(*1) Certificate of analysis for myoglobin is required to prepare myoglobin sample solution for performance check at PPSQ installation. Certificate of analysis is published on the homepage of Sigma Aldrich

4. Preparation Checklist

Address:
Deliver to:
The following is a checklist of the items described above. Please submit the completed document to our installation engineer.
Customer:
Address:
TEL:

Checklist Item Conditions			Checked
1. Site	1-1 Installation Space		
Conditions	Space	See Section 2.1	
	Strength	See Section 2.2	
	Space Behind Instrument	300 mm (minimum)	
	1-2 Installation site		
	Temperature	17 °C to 28 °C	
	Humidity	45% RH to 85% RH	
	Other requirements	Satisfies all requirements in	
		section 2.3 to 2.5	
2. Power Supply	2-1 Power Supply		
	Voltage Fluctuations	120/230 ±10% 50/60Hz	
	Current Capacity	1500VA	
	Other requirements	See Section 2.6	
Exhaust	Indoor Ventilation System	Exhaust system	
System	(Section 2.7)		
	Nitrogen Gas (Section 2.8)	99.9999% or higher	
4 Other Items	PC specification	See Section 2.9	
	Items prepared by customer	See Section 3	
	Maintenance and Consumable Parts	If required	
	Refrigerated and frozen reagents	Refrigerator and freezer	

文書承認履歴 DOCUMENT APPROVE HISTORY

DOCUMENT NUMBER: ZEPV-9032A

 $DOCUMENT\ NAME: PPSQ-51A_53A (Gradient)_Pre-Installation_Reqirement$

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REVIEW1	007829	坊垣生也(Ikuya Bohgaki)	2018/04/06 10:19:59(+09:00)
APPROVE1	001338	鈴木 功一(Suzuki Koichi)	2018/04/06 10:45:49(+09:00)

申請者コメント COMMENT

制定・改訂理由(Established/Revised Reason): 対応OSにWindows 10 Pro, Chinese 64bit version を追加

制定・改訂理由詳細(Detailed Established/Revised Reason):