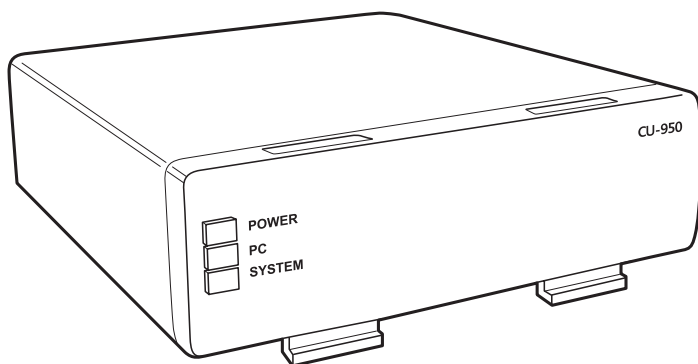


CU-950

Installation guide

Original instructions



1 Introduction

Purpose of the Installation guide

This instruction describes CU-950 and provides information on how to install it with ÄKTAexplorer, ÄKTAFPLC, ÄKTAmicro, ÄKTApilot™ and ÄKTApurifier.

Prerequisites

In order to operate CU-950 safely and according to the intended purpose the following prerequisites must be met:

- You must read the Safety Instructions in this Installation guide.
- The system should be installed according to the instructions in this Installation guide.

In this chapter

This chapter contains important user information and regulatory information.

1.1 Important user information

Read this before using or installing CU-950



All users must read the safety instructions in this Installation guide before installing, using or maintaining the system.

Do not operate CU-950 in any other way than described in the user documentation. If you do, you may be exposed to hazards that can lead to personal injury and you may cause damage to the equipment.

Intended use

CU-950 is intended for research use only, and shall not be used in any clinical or in vitro procedures for diagnostic purposes.

Definitions

This user documentation contains safety notices (WARNING, CAUTION, and NOTICE) concerning the safe use of the product. See definitions below.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. It is important not to proceed until all stated conditions are met and clearly understood.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. It is important not to proceed until all stated conditions are met and clearly understood.



NOTICE

NOTICE indicates instructions that must be followed to avoid damage to the product or other equipment.

1 Introduction

1.1 Important user information

Notes and tips

Note: *A note is used to indicate information that is important for trouble-free and optimal use of the product.*

Tip: *A tip contains useful information that can improve or optimize your procedures.*

Typographical conventions

Software items are identified in the text by ***bold italic*** text.

Hardware items are identified in the text by **bold** text.

In electronic format, references in *italics* are clickable hyperlinks.

1.2 Regulatory information

This section lists the directives and standards that are fulfilled by CU-950.

Contact information for support

To find local contact information for support and sending troubleshooting reports, visit cytiva.com/contact.

Manufacturing information

The table below summarizes the required manufacturing information.

Requirement	Information
Name and address of manufacturer	Cytiva Sweden AB Björkgatan 30 SE 751 84 Uppsala Sweden
Telephone number of manufacturer	+ 46 771 400 600

Conformity with EU Directives

See the EU Declaration of Conformity for the directives and regulations that apply for the CE marking.

If not included with the product, a copy of the EU Declaration of Conformity is available on request.

CE marking



The CE marking and the corresponding EU Declaration of Conformity is valid for the instrument when it is:

- used according to the *Operating Instructions* or user manuals, and
- used in the same state as it was delivered, except for alterations described in the *Operating Instructions* or user manuals.

Regulatory compliance of connected equipment

Any equipment connected to CU-950 should meet the safety requirements of EN 61010-1/IEC61010-1 or relevant harmonized standards. Within the European Union, connected equipment must be CE-marked.

1.3 Description

CU-950 unit consists of a rear panel with connectors and three indicators (LEDs) on the front. The unit is supplied with a small power converter and EU and US mains cables.

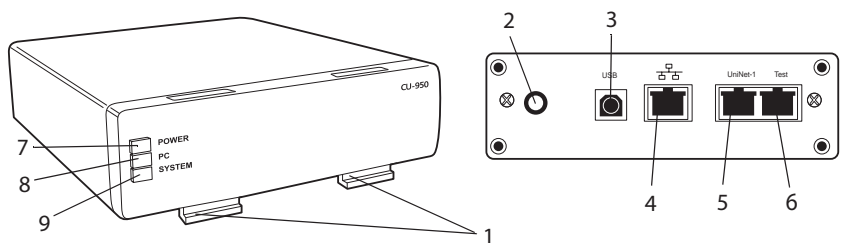


Figure 1.1: CU-950 unit.

Table 1.1: Main parts of CU-950 unit.

Part	Description
1	Attachment
2	Power input
3	USB port
4	Ethernet port
5	UniNet-1 cable port
6	Test port
7	POWER lamp, is on when connected to mains power
8	PC lamp, blinks at first and then remains on when communication with the PC is established
9	SYSTEM lamp, blinks and then remains on when communication with ÄKTA™ system has been established.

2 Safety instructions

This chapter describes the safety compliance, safety labels, general safety precautions, emergency procedures, power failure and recycling of CU-950.

2.1 Safety precautions

CU-950 is powered by mains voltage that may be hazardous. Before installing operating or maintaining the system, you must be aware of the hazards described in this manual.

Follow the instructions provided to avoid personal injury or damage to the equipment.

General precautions



WARNING

Always follow these safety precautions to avoid injury when using the CU-950 instrument.

Installation



WARNING

CU-950 shall be installed and prepared by personnel authorized by Cytiva.



WARNING

CU-950 is not designed for use in an environment where explosion-proof equipment is required.



WARNING

Protective ground. The CU-950 power converter must always be connected to a grounded power outlet.



WARNING

Supply voltage. Make sure that the supply voltage at the wall outlet corresponds to the marking on the power converter, before connecting the power cord. Failure to do this may cause injury to personnel and damage to the system.



CAUTION

CU-950 is designed for indoor use only.



CAUTION

Do not use CU-950 in a dusty atmosphere or close to spraying water.

System operation



WARNING

Operation and user maintenance of CU-950 should be performed by properly trained personnel only.



WARNING

Do not operate CU-950 in any other way than described in the CU-950 and UNICORN manuals.



WARNING

Do not use CU-950 if it is not working properly, nor if it has suffered any damage, for example:

- Damage to the power cord or its plug
- Damage caused by dropping the equipment
- Damage caused by splashing liquid onto it

Maintenance



WARNING

Electrical shock hazard. All repairs should be done by service personnel authorized by Cytiva. Do not open any covers or replace parts unless specifically stated in the user documentation.

2 Safety instructions

2.1 Safety precautions



WARNING

Do not use any accessories or products not supplied or recommended by Cytiva.



WARNING

Do not remove any protection devices from the system.

2.2 Safety and identification labels

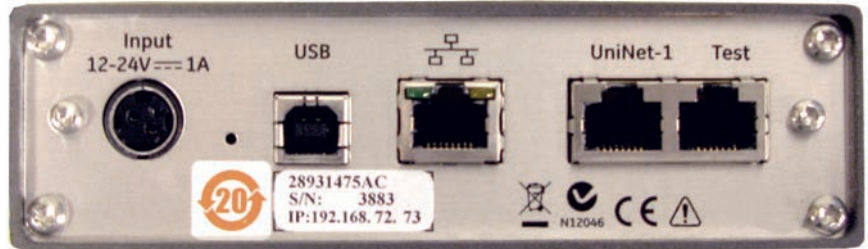







Figure 2.1: CU-950 rear panel with labels.

Label	Meaning
	This symbol indicates that the product contains hazardous materials in excess of the limits established by the Chinese standard SJ/T 11363-2006 <i>Requirements for Concentration Limits for Certain Hazardous Substances in Electronics</i> .
28911475AC	Instrument article number and revision
S/N	Instrument serial number
IP	Instrument IP-address
	This symbol indicates that the waste of electrical and electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact an authorized representative of the manufacturer for information concerning the decommissioning of equipment.
	The system complies with the requirements for electromagnetic compliance (EMC) in Australia and New Zealand.
	The system complies with applicable european directives (see <i>CE marking</i>).
	WARNING Read the Installation guide before using CU-950.

2.3 Recycling

When a CU-950 unit is taken out of service, the different materials must be separated and recycled according to national and local environmental regulations.

3 Installation with ÄKTA lab systems

This section describes the installation with ÄKTAexplorer, ÄKTAFLC, ÄKTApurifier, and ÄKTAmicro.



WARNING

Only use mains cables delivered and approved by Cytiva.

Mounting CU-950

Hang the CU-950 on the left side of the system by inserting the hooks on the front of CU-950 into the rails on the side of the UV-900 or UPC-900 and rotating into position, as shown in [Fig. 3.1, on page 13 \(I-II\)](#).

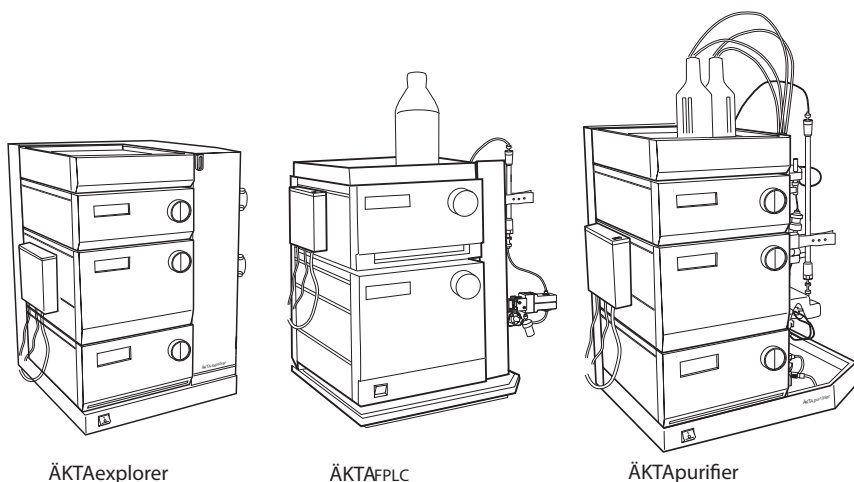


Figure 3.1: Location of CU-950 on ÄKTA systems.

Cable connections

[Fig. 3.2, on page 14](#), [Fig. 3.3, on page 14](#) and [Fig. 3.4, on page 15](#) show the schematic CU-950 cable connections for ÄKTAexplorer, ÄKTApurifier and ÄKTAmicro, and ÄKTAFLC respectively. Remember that the CU-950 unit is actually mounted on the side of UV-900 or UPC-900. The connection parts are described in [Table 3.1, on page 15](#).

3 Installation with ÄKTA lab systems

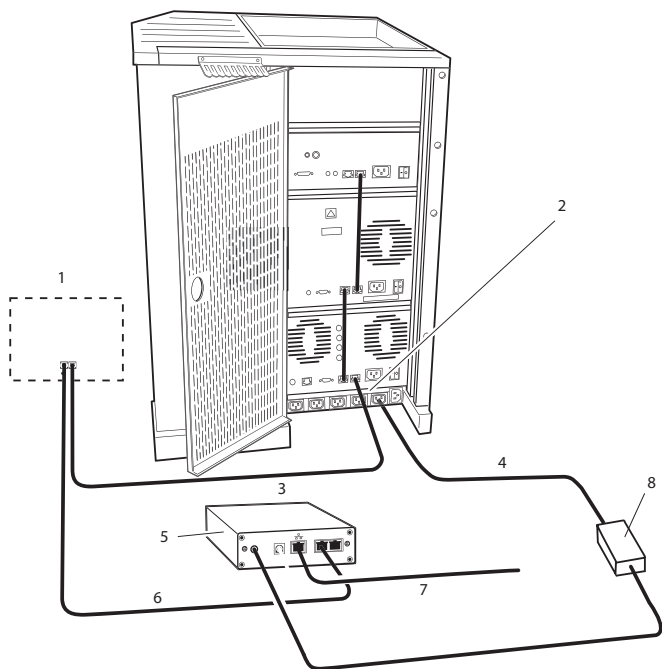


Figure 3.2: Schematic UniNet-1 and mains cable connections for ÄKTAexplorer

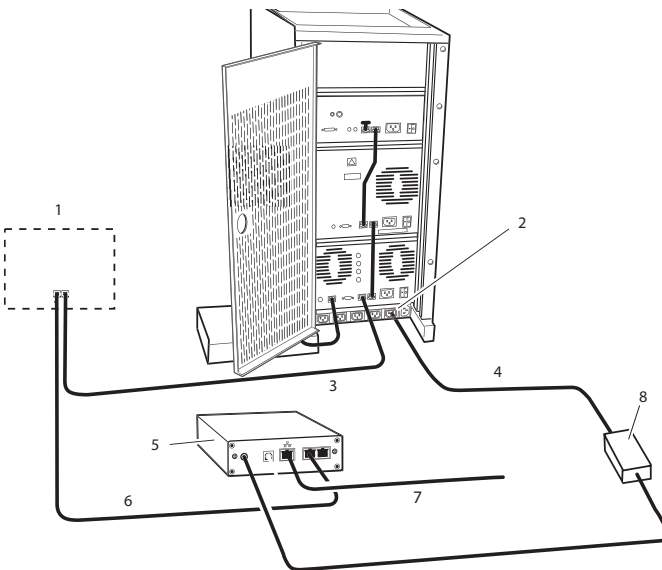


Figure 3.3: Schematic UniNet-1 and mains cable connections for ÄKTApurifier and ÄKTAmicro.

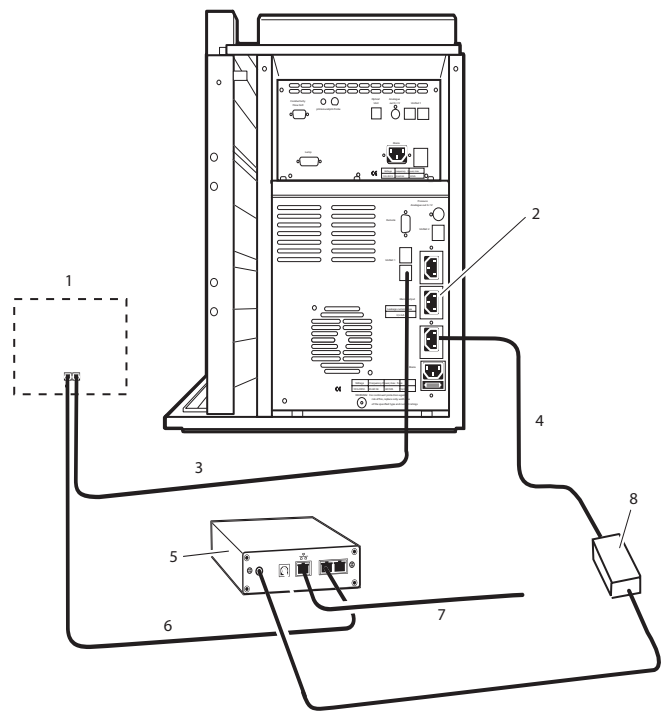


Figure 3.4: Schematic UniNet-1 and mains cable connections for ÄKTA FPLC.

Table 3.1: Connections for ÄKTAexplorer, ÄKTApurifier, ÄKTAmicro and ÄKTA FPLC.

Part	Description	Part	Description
1	Fraction collector (optional)	5	CU-950
2	Mains supply socket	6	UniNet-1-cable
3	UniNet-1-cable	7	Ethernet cable
4	Mains cable	8	Power converter

Connecting the cables

Step	Action
1	Connect the UniNet-1 data communication cable between the UniNet-1 port on CU-950 and Pump P-900 or Pump P-920 in the system.

Step	Action
	<p>Note:</p> <p><i>If a fraction collector is used, connect the fraction collector UniNet-1 cable between Pump P-900 or Pump P-920 and the fraction collector, and the 1.5 m UniNet-1 cable between the fraction collector and CU-950, and then the USB cable between CU-950 and the computer.</i></p>
2	Connect the power converter cable to the Input port on CU-950.
3	Connect the mains cable between the power converter and the mains supply socket at the rear of the system.
4	<p>If an autosampler is used, the mains cable to the autosampler may be connected to an external mains outlet if all mains supply sockets on the system are occupied.</p> <p>Note:</p> <p><i>In this case the autosampler must be manually reset by disconnecting the power cable when performing a system reset or restart.</i></p>
5	<p>Connect the Ethernet cable to the Ethernet port on CU-950. For connection to and installation on the computer, please refer to the <i>UNICORN™ Administration and technical manual</i>.</p> <p>Note:</p> <p><i>The CU-950 driver is available on the UNICORN installation CD and is normally installed together with UNICORN.</i></p>
6	Hang the CU-950 on the left side of the system by inserting the hooks on the front of CU-950 into the channel on the side of the UPC-900 and rotating into position, as shown in Fig. 4.1, on page 17 .

4 Installation with ÄKTApilot

This section describes the installation with ÄKTApilot.



WARNING
Only use mains cables delivered and approved by Cytiva.

The CU-950 unit and the power converter is placed near or inside ÄKTApilot. [Fig. 4.1, on page 17](#) shows the schematic CU-950 cable connections for ÄKTApilot.

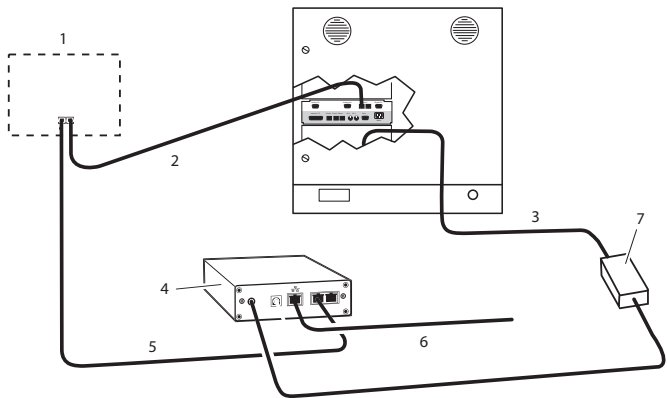


Figure 4.1: Schematic UniNet-1 and mains cable connections for ÄKTApilot.

Table 4.1: Connections from ÄKTApilot.

Part	Description	Part	Description
1	Fraction collector (optional)	5	UniNet-1-cable
2	UniNet-1-cable	6	Ethernet cable, to computer
3	Mains cable	7	Power converter
4	CU-950		

Connecting the cables

Step	Action
1	<p>Connect the UniNet-1 data communication cable between the UniNet-1 port on CU-950 and one of the UniNet-1 sockets on the controller rear panel inside ÄKTApilot.</p> <p>Note: <i>If a fraction collector is used, connect the fraction collector UniNet-1 cable between the controller rear panel inside ÄKTApilot and the fraction collector, and the 1.5 m UniNet-1 cable between the fraction collector and CU-950.</i></p>
2	<p>Connect the cable on the CU-950 power converter to the Input port on CU-950.</p>
3	<p>Connect the mains cable between the power converter and the mains supply socket inside the system.</p>
4	<p>Connect the Ethernet cable to the Ethernet port on CU-950. For connection to and installation on the computer, please refer to the <i>UNICORN Administration and technical manual</i>.</p> <p>Note: <i>The CU-950 driver is available on the UNICORN installation CD and is normally installed together with UNICORN.</i></p>

Page intentionally left blank



cytiva.com/akta

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate.

ÄKTA, ÄKTApilot, and UNICORN are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

All other third-party trademarks are the property of their respective owners.

© 2020–2021 Cytiva

UNICORN©2020–2021

Any use of UNICORN is subject to Cytiva Standard Software End-User License Agreement for Life Sciences Software Products. A copy of this Standard Software End-User License Agreement is available on request.

All goods and services are sold subject to the terms and conditions of sale of the supplying company operating within the Cytiva business. A copy of those terms and conditions is available on request. Contact your local Cytiva representative for the most current information.

For local office contact information, visit cytiva.com/contact

11000325 AH V:5 02/2021