



Installation Qualification Procedures

GX-241 Liquid Handler

The Installation Qualification (IQ) procedures are aimed at end users who are implementing GLP-type requirements and can be readily incorporated into proprietary Standard Operating Procedures (SOPs).

1. Instrument Identification

Manufacturer

Gilson, Inc.
3000 Parmenter Street
PO Box 620027
Middleton, WI 53562-0027 USA

<i>Instrument Name</i>	<i>Serial Number*</i>
GX-241 Liquid Handler	
GX Direct Injection Module (Optional)	
GX Rinse Pump (Optional)	

*Refer to the shipping label, located on each shipping container, for the serial number.

Supplier

Organization _____

Address _____

Phone Number _____

Fax Number _____

Service Technician _____





User

Organization _____

Department _____

Site (Room) _____

Primary Contact

Name _____

Phone _____

E-Mail _____

Date of Installation _____

2. Pre-Installation

Instrument Description

The GX-241 Liquid Handler is a compact X/Y/Z instrument designed for automating general liquid handling procedures. The GX-241 Liquid Handler can be configured with a VERITY® syringe pump, GX Direct Injection Module, fraction collection valve, transfer ports, racks, rinse station, and a GX Rinse Pump.

For technical specifications, refer to the *GX-241 Liquid Handler User's Guide*.

Unpacking

When unpacking the instrument, check the contents against the information listed under the **Unpacking** heading in the *GX-241 Liquid Handler User's Guide*.

Retain all packing material so the instrument may be shipped safely in the future.



Installation Site Requirements

Power Requirements	GX-241 Liquid Handler Voltage: 24V DC Current Rating (Maximum): 6.25A, 150W
	External Power Supply Voltage Input Frequency: 50 to 60 Hz Voltage: 100–240V AC Voltage Output Voltage: 24V DC Current rating: 6.25A, 150W
Temperature Range	5°C–40°C
Dimensions* (W x D x H) <small>*with Z-Arm installed and connected</small>	39 x 50 x 47 cm (15.4 x 19.8 x 18.5 in.)

Documents

In addition to this document, the following are provided. For reference purposes, specify the storage location for each.

LT2615CD	GX-241 Liquid Handler Documentation CD _____
LT312241	GX-241 Declaration of Conformity _____
LT310196	QC Checklist - GX-241 _____
LT310202	Items Included Checklist - GX-241 Liquid Handler _____
LT255573	GX-241 China RoHS _____



3. Installation

Locator Plate Setup

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-241 Liquid Handler User's Guide*.

Z-Arm Setup

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-241 Liquid Handler User's Guide*.

Plumbing Connections

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-241 Liquid Handler User's Guide*.

Rear Panel Connections

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-241 Liquid Handler User's Guide*.

Start Up

Refer to **Chapter 3, Operation**, in the *GX-241 Liquid Handler User's Guide*, for information on starting the GX-241 Liquid Handler.

GX-241 Offset Utility

Refer to **Chapter 3, Operation**, in the *GX-241 Liquid Handler User's Guide*, for information on running the GX 241 Offset Utility (part number 21067549).



4. Firmware Version

To obtain the firmware version for your records:

1. Install the Gilson Ethernet Utility. Refer to its documentation, if necessary.
2. Start the Gilson Ethernet Utility. Click the Start button and then select **All Programs > Gilson Applications > Utilities > Gilson Ethernet Utility.**
3. Select the instrument from the list and then click **Connect.**
 - Select **GX-241 II** for the GX-241 Liquid Handler.
 - Select **GX D Inject** for the GX Direct Injection Module.
4. Record the firmware version, which is displayed in the “Prom Version” column.

<i>Instrument Name</i>	<i>Firmware Version</i>
GX-241 Liquid Handler	
GX Direct Injection Module	
GX Rinse Pump	N/A

5. Acceptance

If no installation problems were detected or installation problems that were detected were resolved, have the local Gilson representative who installed the GX-241 Liquid Handler provide the information requested below.

Name _____

Organization _____

Signature _____

Date _____

End user was provided with a copy of this document.