



## Installation Qualification Procedures

### GX-271 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-271 Liquid Handler	
Z-Arm	
GX Solvent System (Optional)	
GX Direct Injection Module (Optional)	
GX Rinse Pump (Optional)	

\*Refer to the shipping label, located on each shipping container, for this information. Check that it matches the serial number on the instrument.



## *Supplier*

Organization \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number \_\_\_\_\_

Fax \_\_\_\_\_

Name of Service Technician \_\_\_\_\_

## *User*

Organization \_\_\_\_\_

Department \_\_\_\_\_

Site (Room) \_\_\_\_\_

Name \_\_\_\_\_

Phone \_\_\_\_\_

E-Mail \_\_\_\_\_

Date of Installation \_\_\_\_\_



## 2. Pre-Installation

### Instrument Description

The GX-271 Liquid Handler is an X/Y/Z instrument that automates liquid handling procedures. The liquid handler can be configured with a GX Solvent System or VERITY® Syringe Pump, rinse stations, and racks. Optional accessories include a GX Direct Injection Module, GX Rinse Pump, and fraction collection valve.

For technical specifications for the GX-271 Liquid Handler, refer to the **Chapter 1, Introduction** in the *GX-271 Liquid Handler User's Guide*. For technical specifications for an optional accessory, refer to its appendix in the *GX-271 Liquid Handler User's Guide*.

### Unpacking

When unpacking the instrument, check the contents against the information listed under the **Unpacking** heading in **Chapter 1, Introduction** in the *GX-271 Liquid Handler User's Guide*.

Retain all packing material so the GX-271 Liquid Handler may be shipped safely in the future.

### Installation Site Requirements

Technical Specification	Definition	
<b>Power Requirements</b>	50 to 60 Hz	
	Voltage: 100 to 240V (Universal Input)	
	Current Rating	2A for 100 to 120V
	1A for 220 to 240V	
	Power Consumption: 250W (Maximum)	
<b>Temperature Range</b>	5°C to 40°C	
<b>Dimensions (W x D x H)</b>	59.7 x 54.1 x 57.1 cm (23.5 x 21.3 x 22.5 in.)	
	<b>NOTE</b> The height dimension does not include the Z-arm, which will vary depending on where the Z-arm is clamped.	



## Documents

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

LT26141CD	Documentation CD, GX-271/274 Liquid Handlers	
LT310180	Quality Control (QC) Checklist - GX-27X	
LT310181	Quality Control (QC) Checklist - GX-27X Z-Drive	
LT255565	China RoHS	
LT312270	Declaration of Conformity	
LT315018	Unpacking Instructions	

## 3. Installation

### Locator Plate Setup

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-271 Liquid Handler User's Guide*.

### Z-Arm Setup

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-271 Liquid Handler User's Guide*.

### Plumbing Connections

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-271 Liquid Handler User's Guide*. For an optional accessory, refer to its appendix in the *GX-271 Liquid Handler User's Guide*.

### Rear Panel Connections

Refer to the appropriate procedures in **Chapter 2, Installation** in the *GX-271 Liquid Handler User's Guide*. For an optional accessory, refer to its appendix in the *GX-271 Liquid Handler User's Guide*.

### Start Up

Refer to the appropriate procedures in **Chapter 3, Operation** in the *GX-271 Liquid Handler User's Guide*. For an optional accessory, refer to its appendix in the *GX-271 Liquid Handler User's Guide*.



## GX-27X Series Offset Utility

Refer to **Chapter 3, Operation** in the *GX-271 Liquid Handler User's Guide* for information on running the GX-27X Series Offset Utility (part number 21067529).

## 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 **GX 271**, **GX D Inject** (for GX Direct Injection Module), or **GX PSolvent** (for GX Solvent System) from the list and then click **Connect**.
4. Record the firmware version, which is displayed in the "Prom Version" column.

<i>Instrument Name</i>	<i>Firmware Version</i>
GX-271 Liquid Handler	
GX Solvent System	
GX Direct Injection Module	

## 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-271 Liquid Handler provide the information requested below.

Name \_\_\_\_\_

Organization \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

End user was provided with a copy of this document.