



# 333/334 HPLC Pumps

## INSTALLATION QUALIFICATION PROCEDURES

The installation qualification (IQ) procedures are intended for end users who are implementing good laboratory practice (GLP) requirements and can be readily incorporated into proprietary standard operating procedures (SOPs).

### 1. Product Identification

#### Manufacturer

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

	INSTALLED	COMPONENT	SERIAL NUMBER	FIRMWARE VERSION
333 HPLC PUMP		333 HPLC Pump	_____	_____
		H3 Pump Heads	_____	
		Pressure, Purge, and Mixing Module (PPMM)	_____	
334 HPLC PUMP		334 HPLC Pump	_____	
		H3 Pump Heads	_____	

The serial number is found inside the door on the right side of the pump or on a sticker on the component. Refer to the QC Checklist for the firmware version.

## Supplier

Organization	<hr/>
Address	<hr/> <hr/> <hr/>
Phone Number	<hr/>
Fax Number	<hr/>
Name of Gilson Representative	<hr/>

## User

Organization	<hr/>
Department	<hr/>
Site (Room)	<hr/>
Primary Contact Name	<hr/>
Phone	<hr/>
Email	<hr/>
Date of Installation	<hr/>

## 2. Pre-Installation

### Instrument Description

The 333/334 HPLC Pumps are reciprocating piston pumps that provide a preparative pumping solution accommodating flow rates from 1 mL/min to 200 mL/min and pressures up to 3040 psi (210 bar). With additional pumps in parallel, you can double the flow rate up to 400 mL/min. Individually, a 333 Pump is for single solvent delivery (isocratic) under high pressure. When coupled with a 334 Pump, multi-solvent delivery (binary) is possible.

The 333/334 Pumps are controlled by either 333 Pump software using its control panel or by TRILUTION® LC Software as part of an HPLC system.

For technical specifications, refer to the *333/334 HPLC Pumps User's Guide*.

### Unpacking

When unpacking the pump(s), check the contents against the information listed under the **Unpacking** heading in the *333/334 HPLC Pumps User's Guide*.

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

### Installation Site Requirements

REQUIREMENT	DESCRIPTION
Electrical	<b>Line Voltage</b> 90–260 VAC <b>Frequency</b> 50 or 60 Hz <b>Power Consumption</b> 600 W
Environmental	<b>Operating Temperature</b> 333 Pump: 10°C to 40°C 334 Pump: 4°C to 40°C <b>Operating Humidity</b> 15%–80% <b>Operating Altitude</b> Up to 2000 m (81 kPa or 604 mmHg)
Physical	<b>Dimensions (W x D x H)</b> 333 Pump: 26 x 41 x 50.7 cm (10.2 x 16.2 x 20 in.) 334 Pump: 26 x 41 x 38.7 cm (10.2 x 16.2 x 15.2 in.) <b>Weight</b> 333 Pump: 33.1 kg (73 lbs.) Shipping Weight: 36.3 kg (80 lbs.) 334 Pump: 29 kg (64 lbs.) Shipping Weight 33.1 kg (73 lbs.)

### Documents

The following documents are provided. For reference purposes, specify the storage location for each.

PART NUMBER	DESCRIPTION	STORAGE LOCATION
LT801422USB	Documentation USB	<div></div>
LT312851	Declaration of Conformity	<div></div>
LQCC0017	QC Checklist	<div></div>
LT801397	Unpacking Notice	<div></div>
LPTR0003	Pump Test Report	<div></div>

### 3. Installation

When setting up the pump(s) follow the instructions provided in the *333/334 HPLC Pumps User's Guide*.

### 4. Acceptance

If no installation problems were detected or installation problems that were detected were resolved, have the local Gilson representative who installed the pump(s) (if applicable) provide the information requested below.

Gilson Representative	<div></div>
Organization	<div></div>
Signature	<div></div>
Date	<div></div>
<div><input type="checkbox"/> End user was provided with a copy of this document.</div>	