Piston Pump System

INSTALLATION QUALIFICATION PROCEDURES

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).

Product Identification

Manufacturer

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

	Installed	Component	Instrument Name	Firmware Version	Serial Number
Pump A	☐	Pumping Module			
		Pump Head			
Pump B	☐	Pumping Module			
		Pump Head			
Pump C	☐	Pumping Module			
		Pump Head			
Pump D	☐	Pumping Module			
		Pump Head			
Injection Pump	☐	Pumping Module			
		Pump Head			
Manometric Module	☐				
Dynamic Mixer	☐				

Supplier

Organization	
Address	
Phone Number	
Fax Number	
Name of Gilson Representative	

User

Organization	
Department Site (Room) System that Includes the Pumps	
Primary Contact	
Name Phone Email	
Date of Installation	

Pre-Installation

Instrument Description

The most complete Gilson piston pump system consists of up to five pumping modules with appropriate head (pump A, B, C and D plus injection pump), a manometric module and a mixer.

Pumping modules are 305 HPLC Pump or 306 HPLC Pump.

Piston-pump heads correspond to nine models (from 5SC to 200 WTi). Manometric modules are 805, 806 or 807 (generically 80X).

Mixer is 811.

The multi-pump systems are controlled either by a 305 or by a computer with Gilson software.

Unpacking

The 30X pumping modules are supplied in a carton including their standard accessory package.

The pump heads are supplied with their standard accessories.

The 80X manometric modules are supplied in a carton including their standard accessories. Check the content of the carton against the parts list given in Chapter 1 of the 80X User's Guide.

The 811 dynamic mixer is supplied in a carton including its standard accessories. Check the content of the carton against the parts list given in Chapter 1 of the 811 User's Guide.

Documents

To perform the installation of your pumping system properly, you need the following documents:

- ❒ 305 or 306 User's Guide(s)
- ❒ Pump Head User's Guide(s)
- ❒ 805-806-807 User's Guide
- ❒ Installation Qualification (IQ)
- ❒ 811 User's Guide

Installation Site Requirements

Electrical
100/115 V and 220/240 V ± 10 %, 50 and 60 Hz.

Power requirement
120 W for 30X and 811.

Temperature
4–40°C.

Minimum bench space
330 x 330 x 150 mm (13 x 13 x 6 in.) for a 30X. (W x D x H).

The other 30X, the 80X and the 811 must be stacked above the first 30X.

Access to rear panel.

Installation Qualifications

Safety Instructions

Read the safety instructions in each user's guide before installing and operating your pumping system.

Electrical Setup

- ❒ Check that the male plug of the power cord provided with the 30X corresponds to the female plug in your lab and satisfies your country's safety requirements; otherwise contact your local Gilson representative.
- ❒ Install the fuses in the fuse drawer.
- ❒ Check that the On/Off switch is in the Off position (I = on, O = off).
- ❒ Connect the power cord to the power socket and to the power supply source.
- ❒ If a manometric module is present, connect the manometric module cable to the 80X socket marked "To 305 pump" and the other end to the "Manometric module" socket of the 305 or 306.

If you have a multi-pump system and the 811, repeat steps above.

GSIOC Setup

- ❒ For each 30X controlled by a 305, use a supplied GSIOC cable to connect the 30X socket marked "GSIOC from controller" to the 305 socket marked "GSIOC to slave" on the rear panel of each 30X.
- ❒ For each 30X controlled by a computer, use a supplied GSIOC cable to connect the 30X socket marked "GSIOC from controller" to the 506 socket marked "GSIOC".

Hydraulic Setup

- ❒ Install the pump head into the front aperture of the pumping module as described in the 30X User's Guide.
- ❒ Connect the inlet and outlet tubing provided with the pump head to the inlet and outlet of the pump head as described in the pump head User's Guide.
- ❒ Immerse the inlet filter into the solvent reservoir. This solvent is HPLC grade and degassed isopropanol or methanol to implement the OQ procedure.
- ❒ If an 80X module is present, connect the pump head outlet to the 80X inlet.
- ❒ If you have a multi-pump system and the 811, make the appropriate connections to the mixing chamber as described in the 811 User's Guide.

External Communications

- ❒ If your pumping system is controlled by a computer, connect the GSIOC socket located on the rear panel of the 30X pump(s) to the GSIOC line controlling all the other modules.
- ❒ If your pumping system is controlled by a 305, connect the input/output electrical contacts of the 305 to the surrounding instruments as described in Chapter 3 of the 305 User's Guide.

Acceptance

If no installation problems were detected or installation problems that were detected were resolved, have the local Gilson representative who verified the installation of the TRILUTION® LC v4.x provide the information requested below.

Gilson Representative	_____
Organization	_____
Signature	_____
Date	_____
❒ End user was provided with a copy of this document.	