

Periodic Maintenance for Recycling Preparative HPLC Model LC-9100 Series

Solvent

- Tank filter

Action: Perform ultrasonic cleaning periodically.

Remarks: Generation of rust may produce bubbles.

- Solvent bottle

Action: Perform cleaning periodically.

Remarks: Remove dirt and dust.

Pump

- Pump seal

Action: Check for any leakage from the head or any pressure fluctuation.

Remarks: When any abnormality is found even before life expiration, replace with a new one.

- Check valve

Action: If any pressure fluctuation or pumping failure is found, disassemble to perform cleaning.

Remarks: If degree of degradation is high, replace with new one.

- Plunger

Action: If buffer solution (salt solvent) is used as solvent, feed water to the plunger cleaning port to wash.

Remarks: If degradation is found, replace with new one.

Detector (RI-5)

- • Purge valve

Action: No running sound is heard even if the PURGE switch is pressed.

Remarks: Degradation may occur because of solenoid valve.

- • Optical axis

Action: If Autozeroing does not function, readjust the optical axis.

Remarks: If the unit is subjected to excessive shocks, readjustment may be required.

Detector (UV-310B/3702B)

- • Light source lamp

Action: Replace with new one.

Remarks: Replace with new one.

- • Flow cell

Action: Chromatogram noise or leakage from connector

Remarks: Disassemble and clean, or replace.

*Parts with warranty life

(Warranty life is a guideline based on the operation for 8 hours a day)

Item	Cleaning or replacement period
Tank filter	Yearly
Pump seal	Replace every 6 months
Check valve	Yearly
Frictional part for injector etc.	
Rotor seal, stator face and needle guide	Yearly
Pre-column	At pressure rise
Column	At separation deterioration
Flow cell	Yearly
UV light source lamp	2000 hours
Solenoid valve	Every two years