

Troubleshooting for Marker and Flow line and column

Marker

Case	Phenomenon	Probable cause	Action
A	Malfunctioning	Incorrect sensitivity adjustment	Readjust sensitivity.
		Incorrect siphon positioning	Readjust the siphon position.
B	Not appear at all	Lamp cable breakage	Replace the lamp unit.
C	Pulse malfunctioning	Electric circuit trouble	Replace control circuit board.

Flow line and column

Case	Phenomenon	Probable cause	Action
A	Pressure rise	Pre-column clogged	Replace the pre-column.
		Column pressure rise	When columns are connected in series, measure pressure for each column to identify a defective column. Send the defective column for repair.
		Incorrect setting of pump flow rate	Set at a flow rate suitable for the column.
		Pipeline clogged	Depending on the solvent type or environment, rust may be produced inside the pipeline. Clean the pipeline from upstream to downstream. When the detector is clogged, contact our local sales representative.
		Viscosity increase due to room temperature drop	Raise the room temperature.
		Improper sample viscosity	Adjust sample viscosity or perform pre-treatment.
B	Pressure drop due to flow rate decrease	Incorrect setting of pump flow rate	Set the flow rate correctly.
		Leakage from pump seal	Replace the pump seal.
		Air suction through check valve inlet side	Air bubbles are often produced during recycle processing. Degas solvent and purge the pump.
		Leakage from connector	Locate the leakage point and repair.
C	Poor separation by column	Sample concentration too high	Lower the concentration.
		Column contaminated by sample	This may be associated with detector drift.
		Column degradation due to cavity produced in packing	Connect each column individually to check the theoretical number of plates. Repair or replace the defective column.