

Preparative HPLC Pump PU-2086/2087



In addition to the Model PU-2080 analytical pump, JASCO is pleased to introduce two new preparative scale HPLC pumps. The Model PU-2086 covering flow rates from 0.001 to 20.000 mL/min. and PU-2087, covering the flow rates from 0.001 to 50.000 mL/min. Just as the other components of the LC-2000Plus line, the PU-2086/2087 deliver excellent pump performance in an extremely compact package. Occupying only 15 cm of bench space the PU-2086/2087 contain microprocessors for full programmability. Both models can be used in isocratic or gradient modes with the same precision and reproducibility of many analytical scale pumps.

The PU-2086/2087 can easily be interfaced with the JASCO HPLC system using the JASCO chromatography data systems. These packages offer full automation of all JASCO HPLC components including the PU-2086/2087.

- **Preparative Performance in a Compact Package**

The small pump, a mere 15 cm wide by 15 cm high, makes purification of large amounts of compounds possible while occupying minimum bench space in the crowded modern laboratory.

- **High Pressure Gradient or Isocratic Operation**

The dual plunger design eliminates pulsation providing uniform flow over a wide range of flow rates. High quality purified samples are assured with precision and reproducibility better than many analytical pumps.

- **Recycle Valve/Port**

A recycle valve or port are provided for convenient recycle operation.

- **Full Programmability and Communication**

- Time programming of 10 files with up to 64 steps/file is available eliminating the need for external computers or system controllers.
- Built-in program allows high pressure gradient operation by 2 pumps.
- Event control capability allows column switching, and control of external components.
- An auto pump on/off timer is provided.



SPECIFICATIONS

PU-2086

Type of pump: Dual plunger type
Delivery mode: Constant flow/constant pressure selectable

Constant flow mode

Flow rate range: 1 µL/min to 20.0 mL/min
Flow rate setting: 1 µL/min to 20.0 mL/min with 1µL steps by Ten key operation
Flow rate precision: Less than 0.2% (Relative Standard Deviation) at 0.2 ~ 5.0 mL/min
Flow rate accuracy: ±2% of setting or ±20 µL/min whichever is larger at 0.2 ~ 5mL/min, 0 ~ 30MPa
Max. pressure applied: 50MPa (less than 10mL/min), 40MPa (10 ~ 15mL/min), 25MPa (more than 15mL/min)
Pressure limit: Selectable max. and min. pressure limit in 0.1 MPa increments (0 ~ 50 MPa)

Constant pressure mode

Pressure range: 3 ~ 50MPa (less than 10mL/min), 3 ~ 30MPa (more than 10mL/min)
Pressure setting: Adjustable in 0.1 MPa increments by Ten key operation
Pressure accuracy: ±10% of setting or ±1 MPa, which is larger

Others

Display: Flow rate, pressure, etc. are indicated on LCD.
Time programming: 64 steps, up to 10 files(Flow rate, composition ratio, max. pressure, min. pressure, event relay signals and valve position)
Gradient: Two pump (PU-2086 x2) high pressure mixing type
Composition ratio setting: 0 ~ 100% 0.1% increments

Events output: 3 provided, time programmable
Automatic pump on/off timer: Provided, 0 ~ 99.9 hours (0.1 hours steps)
Self-diagnostics: Internal memory check, pressure sensor check, DC power supply check
Materials: All materials in contact with solvent are ruby, sapphire, ceramic, stainless steel or fluorocarbon polymer, or PEEK
Pressure sensor: Flow through type strain-gauge transducer
Dimension: 150 (W) x 470 (D) x 150 (H) mm
Weight: Approx. 10 kg
Power Input voltage: AC100 ~ 240 V ±10% 50/60 Hz
Power consumption: 185 VA

PU-2087

Same as PU-2086 with the following exceptions

Constant flow mode

Flow rate range: 1 µL/min to 50.0 mL/min
Flow rate setting: 1 µL/min to 50.0 mL/min with 1µL steps by Ten key operation
Flow rate precision: Less than 1% (Relative Standard Deviation) at 1 ~ 10 mL/min
Flow rate accuracy: ±2% of setting or ±100 µL/min whichever is larger at 1 ~ 10 mL/min, 0 ~ 15 MPa

Max. pressure applied: 15 MPa (less than 40 mL/min)
Pressure limit: Selectable max. and min. pressure limit in 0.1 MPa increments

Constant pressure mode

Pressure range: 5 ~ 15 MPa (less than 40 mL/min)

STANDARD ACCESSORIES

Inlet tube assy., 3.0 mm O.D.	2 pcs
Tube PTFE, 2.0 mm O.D. x 1.4 mm I.D. x 1 m	1 pc
Spare fuse	1 pc
AC power cable	1 pc
Seal installation	1 set

ORDERING INFORMATION

6821-J002B	Model PU-2086	Semi-preparative HPLC Pump
6822-J002B	Model PU-2087	Preparative HPLC Pump
6818-J002B	Model PU-2080	HPLC Pump
6823-J003B	Model PU-2089	Quaternary HPLC Pump
6820-J002B	Model PU-2085	Semi-micro HPLC Pump
6819-J002B	Model PU-2080i	Bio-inert HPLC Pump
6823-J004B	Model PU-2089i	Bio-inert Quaternary HPLC Pump
6824-J002B	Model UV-2070	UV/VIS Detector (~ 900 nm)
6825-J002B	Model UV-2075	UV/VIS Detector (~ 600 nm)
6826-J002B	Model UV-2077	Multi-wavelength UV/VIS Detector
6832-J002B	Model MD-2015	Diode Array Detector (~ 900 nm)
6831-J002B	Model MD-2010	Diode Array Detector (~ 600 nm)
6829-J003B	Model FP-2020	Fluorescence Detector
6833-J002B	Model RI-2031	Refractive Index detector
6838-J002B	Model CD-2095	Circular Dichroism Detector
6837-J002B	Model OR-2090	Chiral Detector
6836-J002B	Model CL-2027	Chemiluminescence Detector
6828-J008B	Model AS-2059	Autosampler
6827-J005B	Model AS-2055	Autosampler
6827-J006B	Model AS-2057	Autosampler
6834-J002B	Model CO-2060	Column Oven
6835-J002B	Model CO-2065	Column Oven

● Specifications are subject to change without notice.



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