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305/306 HPLC Pumps







Precise, Accurate Solvent Delivery for Analytical to Preparative Chromatography

Feature	Benefit
■ Large selection of interchangeable Gilson pump heads	■ Wide range (10 µL–200 mL/min) of precise and accurate flow rates for isocratic or gradient HPLC
■ Titanium or stainless steel heads	■ Accommodate any type of liquid covering a wide range of flow rates and pressures
■ Dynamic Mixing Module with interchangeable mixing chambers	■ Provides high-efficiency mixing for accurate and repeatable gradients over a wide flow rate range
■ Single-piston head design	■ Powerful, smooth flow rates from a robust and laboratory-proven pump design
■ Programmable 305 master pump with built-in gradient control and compressibility compensation controls up to three slave pumps and three peripherals	■ Enables simple and easy upgrades from isocratic to binary, tertiary or quaternary gradients
■ 306 model is controlled via the 305 master pump or Gilson controller software	■ Flexible design; use the 306 Pump for elution or repetitive sample injection

Applications

- Microbore to preparative HPLC
- Large-volume injection pumping
- Inert pumping systems for electrochemical detection
- Buffer gradients and ion exchange chromatography

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Technical Specifications

Pump	Reciprocating pump with single-piston interchangeable head, constant stroke and fast refill motion, external pulse dampener and pressure feedback
Pump Heads **SC** = stainless steel **W** = rinsing compartment for aqueous salt solutions (≥0.1M) **Ti** = titanium * = pulse dampening/pressure control	

Pump Head Model	Flow Rate Range (mL/min)	Pressure Range psi (bar)	Manometric Module*
5SC	0.010–5	14.5–8700 (1–600)	805
10SC	0.050–10	14.5–8700 (1–600)	805
10WSC	0.050–10	14.5–8700 (1–600)	805
10WTi	0.050–10	14.5–8700 (1–600)	805
25WTi	0.125–25	14.5–4060 (1–280)	806
25SC	0.125–25	14.5–4060 (1–280)	806
50SC	0.250–50	72.5–2030 (5–140)	806
100SC	0.500–100	72.5–1015 (5–70)	807
200WTi	1.000–200	72.5–508 (5–35)	807

Mixing Modules	811D Prep Mixer: >10 mL/min, 23 mL; 110/220V 811D Analytical Mixer: 1.0–10 mL/min, 1.5 mL; 110/220V 811D Titanium Analytical Mixer: 1.0–10 mL/min, 1.5 mL; 110/220V 811D Titanium Analytical Mixer: 0.1–3.0 mL/min, 0.7 mL; 110/220V 811D Microbore Mixer: <0.1 mL/min, 65 µL; 110/220V
Operating Modes	Constant flow rate (Flow), constant volume (Dispense) and time-based sequence (Program)
Programmable Parameters (305)	• Solvent composition points for high-pressure mixing of three solvents from three pumps • Flow rate points that can be superimposed over gradient composition profile • Timed events for programming three output contact closures, one input and one injection pump • Time, adjustable from 10^{-2}–10^{4} min with increments from 0.01–1 min depending on the range used • Flow control adjustable from 0.01%–100% of the maximum flow rate of the pump head being used • Up to 99 loops with unlimited linking of files • Storage for 10 user programs and four error files with a maximum of 25 points and timed events in each program
Flow Rate	Flow rate: 10 µL/min–200 mL/min Coefficient of variation: 0.1%–0.6% with aqueous solutions or hydro organic polar solvent mixtures; 0.3%–1% with hydrocarbons or chlorinated volatile solvents Maximum accuracy error: ±1% with water over the full flow rate and pressure ranges
Pressure	0.1–60 MPa (600 bar, 8700 psi), depending on pump head used Accuracy: <±1% or 0.1 MPa (1 bar, 15 psi) Repeatability: <1% or 0.1 MPa (1 bar, 15 psi)
Software	Via Gilson UniPoint™ System Software
Communication Interface	305: GSIOC; four inputs and three relay outputs
Display Panel	305: 2 x 24-character LCD
Front Panel	305: Keypad and built-in help messages
Liquid Contact Materials	316L stainless steel, titanium, sapphire, ruby, ceramic, PTFE, PCTFE and HDPE
Power Requirements	Frequency: 50–60 Hz Voltage: 100–120 or 220–240V; mains voltage fluctuations not to exceed ±10% of the nominal voltage
Environmental Operating Temperature	0–40°C
Manufacturing Standards	Meets applicable Safety and EMC certification standards; CE certified
Instrument Dimensions (w x d x h)	33 x 33 x 15 cm (13 x 13 x 6 in.)
Instrument Weight (with head)	10 kg (22 lbs.)
Shipping Weight (with head)	14.5 kg (32 lbs.)

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

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