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307 HPLC Pump





Precise, Accurate Solvent Delivery for Analytical Chromatography

Feature	Benefit
Built-in pulse dampener and pressure transducer	Delivers low-pulse flows from 10 µL/min to 10 mL/min
Isocratic pump with built-in programmable control; controlled as a slave pump by the 305 Pump or control software for gradient applications	Enables simple and easy upgrades from isocratic to binary, tertiary or quaternary gradients
Titanium or stainless steel heads	Accommodate any type of liquid covering a wide range of flow rates and pressures
Available pump heads include models for concentrated salt buffers, low pH, volatile or viscous mobile phases	Specifically engineered to accommodate a wide range of applications
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

Applications

- Microbore to analytical HPLC
- Large-volume injection pumping
- Inert pumping systems for electrochemical detection
- Buffer gradients and ion exchange chromatography (when controlled by 305 Pump or control software)

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Technical Specifications

Pump	Programmable reciprocating pump with single-piston interchangeable head, constant stroke and fast refill motion, internal pulse dampener and pressure feedback
Pump Heads **SC** = stainless steel **W** = rinsing compartment for aqueous salt solutions (≥0.1M) **Ti** = titanium	<table><tr><th rowspan="2">Pump Head Model</th><th rowspan="2">Flow Rate Range (mL/min)</th><th colspan="2">Pressure Range</th></tr><tr><th>psi</th><th>bar</th></tr><tr><td>5SC</td><td>0.010–5</td><td>14.5–8700</td><td>1–600</td></tr><tr><td>10WSC</td><td>0.050–10</td><td>14.5–8700</td><td>1–600</td></tr><tr><td>10WTi</td><td>0.050–10</td><td>14.5–8700</td><td>1–600</td></tr></table>
Mixing Modules	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)
Pump Parameters	Head number: 5 or 10 Liquid compressibility: 0–2000 $Mbar^{-1}$ Refill time: 125–1000 ms Inlet pressure: 0–10 MPa
Programmable Parameters	• Timed events for programming four output contact closures and one input to wait for injection • Time, adjustable from 10^{-2}–10^{4} min with increments from 0.01–1 min depending on the range used • Flow control adjustable in mL/min from 0.01%–100% of the maximum flow rate of the pump head being used • Up to 999 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–10 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)
Pulse Dampening	Pulsation: <1% with water at 1 mL/min and pressure >8 MPa Dampener volume: 0.6 mL at atmospheric pressure, 1.6 mL at 60 MPa
Software	Via Gilson UniPoint™ System Software
Communication Interface	RS-232 or GSIOC; four inputs and four relay outputs
Display Panel	2 x 24-character LCD
Front Panel	Keypad and built-in help messages
Liquid Contact Materials	316L stainless steel, titanium, sapphire, ruby, 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)	11.5 kg (25.4 lbs.)
Shipping Weight (with head)	15.4 kg (34 lbs.)

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

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