305/306 HPLC Pumps Precise, Accurate Solvent Delivery for Analytical to Preparative Chromatography



SPEC SHEET | PUMPS

305/306 HPLC PUMPS





Features

- Large selection of interchangeable Gilson pump heads
- Titanium or stainless steel heads
- Dynamic Mixing Module with different mixing chamber volumes
- Single-piston head design
- Programmable 305 master pump with built-in gradient control and compressibility compensation controls up to three slave pumps and three peripherals
- 306 model is controlled via the 305 master pump or Gilson controller software

Benefits

- Wide range (10 µL/min-200 mL/min) of precise and accurate flow rates for isocratic or gradient HPLC
- Accommodate any type of liquid covering a wide range of flow rates and pressures
- Provides high-efficiency mixing for accurate and repeatable gradients over a wide flow rate range
- Powerful, smooth flow rates from a robust and laboratory-proven pump design
- Enables simple and easy upgrades from isocratic to binary, tertiary, or quaternary gradients
- 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



		05/306 HPLC P			
Pump	Reciprocating pump with single-piston interchangeable head, constant stroke and fast re external pulse dampener, and pressure feedback				
	Pump Head	Flow Rate Range	Pressure Range psi	Manometric	
Pump Heads SC= Stainless steel W= Rinsing compartment for aqueous salt solutions (≥0.1M) Ti= Titanium *= Pulse dampening/pressure control	Model	(mL/min)	(bar)	Module*	
	5SC 10SC	0.010-5	14.5-8700 (1-600) 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	
	25WTi	0.125-25	14.5-4060 (1-280)	806	
	25%/11 25SC	0.125-25	14.5-4060 (1-280)	806	
	50SC	0.250-50	72.5-2030 (5-140)	806	
	100SC	0.500-100		807	
			72.5-1015 (5-70)		
	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, 700 μL; 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 (Prog				
Programmable Parameters (305)	Timed eventTime, adjustaFlow controlUp to 999 log	ints that can be superimp s for programming three able from 10 ⁻² –10 ⁴ min wit adjustable from 0.01%–10 ops with unlimited linking 0 user programs and fou m	output contact closures ch increments from 0.00 00% of the maximum flo g of files	, one input, and one in 1-1 min depending on w rate of the pump h	
Flow Rate	 Flow rate: 10 μL/min-200 mL/min Coefficient of variation: 0.1%-0.6% with aqueous solutions or hydro organic polar solve 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 (1-600 bar, 14.5-8700 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 TRILU	Via Gilson TRILUTION® LC 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, HDPE, and PEEK				
Power Requirements	Frequency: 50–60 Hz				
Environmental Operating Temperature	Voltage: 100–120V or 220–240V; mains voltage fluctuations not to exceed ±10% of the nom 4–40°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.)	14.5 kg (32 lbs.)			