

Minipuls 3 Peristaltic Pump



Multichannel Design Provides Ultra-Smooth, Low-Pulse Flow Rates

- Easy to integrate into your existing system—control through a digital keypad or remotely through another device
- Accommodates a wide range of flow rates: choose from four interchangeable standard pump heads with one, two, four or eight channels for flow rates from 0.3 $\mu\text{L}/\text{min}$ –30 mL/min, or from two high-flow pump heads with two or four channels for flow rates between 1–220 mL/min
- Driven by multiple stainless steel rollers to produce smoother, low-pulse flows
- Offers enhanced reliability and ease of operation; the pump's speed stability is maintained independent of normal temperature variations from 0–40°C

Applications

- Low-pressure LC
- Flow Injection Analysis (FIA)
- On-line sample transfer to spectrophotometers
- Biological perfusion applications from 0–40°C*

*Not intended for direct connection to human subjects.

Technical Specifications

Communication Interface	RS-232 or GSIOC; Two TTL-compatible inputs for control of start/stop and direction of flow and one analog input (0–5V) for variable control of motor speed
Flow Rate	Standard head: 0.3 µL/min–30 mL/min (72 psi/5 bar max.) High-Flow head: 1.0–220 mL/min (42 psi/3 bar max.)
Head Speed	Continuous adjustment from 0 to 48 rpm by 0.01 rpm increments up to 9.99 rpm, 0.1 rpm increments above 10 rpm
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Motor Speed Stability	0.5% for any variation of line voltage, torque or temperature
Peristaltic Tubing Diameter	Standard model: 0.25–4 mm (ID) High-Flow model: 2–8 mm (ID)
Power Requirements	Frequency: 47–63 Hz Voltage: 90–132 or 180–264V; mains voltage fluctuations not to exceed ±10% of the nominal voltage Consumption: full load 45W at 220V, no load 35W at 220V
Pump Heads	Standard model: 1-, 2-, 4- or 8-channel heads with 10 stainless steel rollers per head High-Flow model: 2- or 4-channel heads with five stainless steel rollers per head
Software	Via Gilson TRILUTION™ Software or UniPoint™ System Software
Dimensions (w x d x h)	15 x 17.5 x 18 cm (5.9 x 6.9 x 7.1 in.)
Weight	4 kg (9 lbs.)

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

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