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## Dionex GS50 Gradient Pump Performance Specifications

### **Physical Specifications**

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Dimensions	33.5 cm high x 22.5 cm wide x 42 cm deep (13.1 in x 8.9 in x 16.8 in) 6 cm (2.5 in) clearance required behind the module
Weight	19 kg (42 lb)
Decibel Level	60 db ("A WEIGHTING" setting)

### **Environmental Specifications**

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Operating Temperature	10 to 50 °C (50 to 104 °F)
Operating Humidity	5% to 95% relative humidity (noncondensing)

### **Electrical Specifications**

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Main Power Requirements	100 to 240 Vac, 50/60 Hz; 2.5 amps. No manual adjustment is required; the GS50 power supply is main voltage auto-sensing.
Fuse Requirements	Two 3.15 amp fast-blow IEC 127 fuses (P/N 954745)

### **Display and Keypad Specifications**

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Display	Liquid crystal with adjustable backlighting
Keypad	26-button pad for entering commands and numeric values for screen parameters.

### **Hydraulics Specifications**

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Eluent Selection	Four different eluent components; each can be proportioned from 0% to 100%
Pump	Dual-piston (in series), variable speed, 100 µL per revolution
Settable Flow Range	0.0 mL/min, or from 0.05 to 5.0 mL/min in increments of 0.01 mL/min. Note: The GS50 is optimized for operation at 1.5 mL/min or less.
Proportioning Type	Low pressure
Compositional Range	0% to 100% in 0.1% increments
Gradient Linearity	Four concave, four convex, one linear
Flow Accuracy	<1% of set value or ± 2 µL/min, whichever is greater
Flow Precision	<0.2%
Compositional Accuracy	<± 1%
Operating Pressure	35 MPa (5000 psi), maximum
High Pressure Limit	691 kPa to 35 MPa (100 to 5000 psi) in increments of 0.1 MPa (14 psi); trips instantaneously

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Low Pressure Limit	0 to 34 MPa (0 to 4900 psi) in increments of 0.1 MPa (14 psi); a start-up delay prevents false tripping
Delay Volume	Low delay volume: <400 µL Standard delay volume: <800 µL
Pressure Ripple	<1% at 13.8 MPa (2000 psi) and 1.0 mL/min
Control Modes	
Remote	Limited remote operation via TTL-input logic level and TTL-output and Relay contact closures or full remote programming and control via the Dionex DX-LAN interface.
Local (Front Panel)	<i>Methods:</i> Stores up to 100 separate methods (00 through 99); the actual number depends on available memory. Each method can contain up to 50 separate steps. <i>Storage:</i> Nonvolatile memory protects against the loss of programs when the pump is turned off or if there is a power failure.

#### **Vacuum Degas Assembly (Optional)**

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Channels	4-channel degas chamber (with degas membranes)
Pump	Dual-stage diaphragm vacuum pump
Materials	Wetted materials, PEEK, PTFE

#### **Ordering Information**

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System: DX-600	GS50 with Vacuum Degas Assembly: P/N 059481
System: DX-600	GS50 without Vacuum Degas Assembly: P/N 059479
System: BioLC	GS50 with Vacuum Degas Assembly: P/N 059493
System: BioLC	GS50 without Vacuum Degas Assembly: P/N 059491

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