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## **Waters 2545 Binary Gradient Module** **Performance Specifications**

The Waters 2545 Binary Gradient Module (BGM) is a high-pressure mixing binary gradient pump that serves as the primary solvent delivery device for the Waters AutoPurification System. The 2545 BGM provides consistently smooth, pulse-free solvent flow for both analytical- and preparative-scale flow rates under MassLynx™ Software control with the FractionLynx™ Application Manager.

### **Operating Specifications**

Flow rate range	0.50 to 150.00 mL/min
Primary wetted materials	316 stainless steel, UHMWPE, Sapphire, Ruby, Tefzel® (ETFE), Teflon® (FEP, PTFE, PFA), Nitronic 60, Valcon H, Chemraz, and PEEK
Flow rate increment	0.01 mL/min
Delay volume	350 µL maximum
Flow accuracy	±1.0% of required flow or 10 µL/min, whichever is greater (MeOH or water at 600 psi)
Composition accuracy	±1.0% absolute (full scale) from 5 to 95% from 1 to 130 mL/min (MeOH or water step gradients)
Composition precision	Retention time variation <0.3% RSD or 0.1 min SD, whichever is greater (Dial-a-mix, uracil/caffeine, 6 replicates, 1, 20, 50 mL/min, 70/30 water/MeOH)
Gradient comp. curves	Eleven (11) gradient curves including linear, step [2], concave [4], and convex [4]
Priming	Self prime from solvent container on floor with dry lines
Number of solvents	Up to four: A1 or A2 and B1 or B2
Pump seal wash	Integral, active, programmable
Max operating pressure	6,000 psi up to 100 mL/min; Rolloff to 5,000 psi at 150 mL/min
Leak Test	Fully automatic diagnostic

### **Instrument Control And Communication**

# of contact closure outputs	Four (4)
Stop flow input	TTL signal or contact closure
Start gradient input	TTL signal or contact closure
Auxiliary input	Two (2) TTL signal or contact closure (One (1) dedicated to leak detector)
Chart outputs	Two (2) 0 to 2 volts per scale
Ethernet	RJ45 connector

### Physical/Environmental Specifications

Dimensions	Width: 28.2 cm (11.1 in.) Height: 42.7 cm (16.8 in.) Depth (no drip tray): 63.5 cm (25.0 in.) Weight: 57.0 kg (125.0 lbs.)
Operating temperature	4 to 40° C
Operating humidity	20 to 80%, non-condensing
Acoustic noise	< 60 dBA at idle

### Electrical Specifications

Power requirements	6.5 A
Line voltage	100 to 240 Vac $\pm$ 10%
Frequency	50/60 Hz
Fuse	10 A, 5 x 20 mm, slow-blow, IEC type
Power consumption	650 W

Part Number: 2545 Binary Gradient Module 186025450

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