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ABI 4800

Mass Spectrometer Specifications

Condition	Specification
Throughput	>400 samples per hour, depending on application
Ion detection	Positive, negative
Sample plate loading	Automated single-plate sample-loading system
Sample acquisition	<ul style="list-style-type: none">• Manual control using control pad, mouse, or keyboard• Automatic control using Interactive or Batch mode
Ion acceleration	Two acceleration regions. The first region has three stages; the second has two-stages.
Ion path length	<ul style="list-style-type: none">• MS Linear mode – 150 cm (59 in.)• MS Reflector mode – 300 cm (118 in.)• MS/MS mode – 240 cm (94 in.)
Reflector mirror	Two-stage
Laser	Nd:YAG, 355 nm wavelength, 3 to 7 ns pulse width, 200 Hz firing rate
Digitizer	Acqiris® DP211 <ul style="list-style-type: none">• Samples/second – 2 gigasample/second• Analog bandwidth – 500 MHz• Available bin sizes (ns) – 0.5, 1, 2, 4, 10, 20• Input bandwidth – 25 or 500 MHz• Recording rate – 200 Hz
Vacuum system	<ul style="list-style-type: none">• Triple differential turbomolecular pumping for high vacuum• Multi-vacuum gauge capability for independent monitoring of source and reflector chambers

Dimensions	<ul style="list-style-type: none"> • Depth – 81 cm (32 in.) • Width – 109 cm (43 in.) • Height – 239 cm (94 in.)
Weight	657 kg (1,448 pounds) including the roughing pump

Miscellaneous Specifications

Condition	Specification
Environmental	<ul style="list-style-type: none"> • Operating temperature: 20 to 25 °C (68 to 77 °F) • Stable within 2 °C over 24 hours • Relative humidity: 30 to 80%, non-condensing • Altitude: ≤2,000 m (6,500 feet) above sea level • For indoor use only • Installation category (overvoltage category) of II; classified as portable equipment • Pollution degree rating of 2; can be installed in an environment that has only nonconductive pollutants
Computer	<p>Minimum supplied configuration:</p> <ul style="list-style-type: none"> • Dual Pentium® 4 Xeon™, 2.4-GHz CPU, two 120-GB hard disk drives, and 1-GB RAM (random access memory) • 20-inch color flat-panel monitor



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