

Thermo Scientific Dionex AXP-MS Auxiliary Pump

Accurate and precise solvent delivery

The Thermo Scientific™ Dionex™ AXP-MS Auxiliary Pump is a single-piston pump that uses a digital stepper drive and rapid refill to deliver precise and accurate flow. Internal transducer provides pressure display and monitoring capability.



The Dionex AXP-MS is the perfect companion to the Thermo Scientific™ MSQ Plus™ mass spectrometer (MS).

- Supply of cone wash solvents to keep the entrance orifice free of salt and matrix buildup for reliable operation with increased uptime
- Easy delivery of the internal reservoir calibration standards to the inlet probe

The Dionex AXP-MS can also be used as a general metering device for any MS instrument when other pumping is not available or would be inconvenient:

- For flow injection analysis of standards or samples for the optimization of the MS inlet parameters
- As a postcolumn addition pump for introducing organic additives or acid/base modifiers to the eluent stream, or reagents for the derivatization of analytes after chromatographic separation

Wide Flow Range

The Dionex AXP-MS pump operates from 0.01 to 1.00 mL/min at pressure ratings up to 2500 psi.

Internal Pulse Damper

Diaphragm-type pulse damper reduces pulsation while maintaining an inert flow path.

Fully IC and Biocompatible

Metal-free fluidic pathway with the use of PEEK and ceramic materials.

Robust Design

The self-flush head extends seal life and the inert fluid path ensures compatibility over a wide range of solvents and chemical compounds.

Easy Maintenance

The complete head assembly can be changed in seconds at a price similar to seals and check valves in many pumps.

Advanced Software Control

The Dionex AXP-MX pump can be controlled (control/status) through Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS) software.

Integrated Injection Valve

The Dionex AXP-MS pump is equipped with an injection valve with a purge/priming port. This feature allows precise and reproducible injections of samples or analytes when the pump is used with flow or loop injection modes of analysis.

Product Specifications

Specification	Value
Rated Pressure	2500 psi
Flow Rates	0.01–1.00 mL/min
Flow Accuracy	3% throughout flow range
Pressure Pulsation	2% peak-to-peak at 100 psi, 1 mL/min with in-line pulse damper
Flow Rate Precision	0.5% at calibration pressure
Control	Interfaces with Chromeleon CDS, RS-232, and relay control Full control with Chromeleon CDS revision 6.8 or greater using serial/USB connection Limited control (no status feedback) with generic serial driver Front panel and relay control
Dimensions (h × w × d)	6.5 × 6.5 × 10 in
Weight	15 lbs
Power	120/230 Vac 50/60 Hz
Materials	PEEK, ceramic, and inert polymers

Ordering Information

Description	Part Number
Dionex AXP-MS Auxiliary Pump for MS	060684

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