

P S ANALYTICAL

PRODUCT SPECIFICATION

PSA 10.055 MILLENNIUM EXCALIBUR SYSTEM

System Description

An automated atomic fluorescence spectrometer with integrated vapour generation for the determination of hydride forming elements to trace and ultra trace levels. The system utilises boosted hollow cathode lamps (interchangeable) as excitation source with photomultiplier detection. Single multi-reflectance filter allows facility to measure Arsenic, Bismuth, Selenium, Antimony and Tellurium. Capable of operation with both continuous flow and discrete sample injection options, the system is suitable for both routine and research applications matching throughput with sensitivity requirements.

General

Gas Liquid Separator Unique design with low foaming characteristics offering

virtually zero carryover

Gas Supply An inlet pressure of 30 - 60 psi is required. Flow rates pre-

set to optimum levels with automatic shutdown under

software control

Perma Pure™ Cassette Perma Pure™ continuous moisture removal system in an

interchangeable cassette

System Control Full control under PSA's Millennium software running under

MS Windows™

Data Connection Built in USB interface

Computer Specification The Millennium software will operate with any of the

following Microsoft Windows operating systems: 2000, XP,

Vista and 7.

A PC with an equivalent Pentium III processor, 256 MB of memory (when using Windows 2000/XP), an SVGA graphics 800x600 pixels with 256 colours, and a minimum of 15 MB of HD space is required for program installation.

Sample Throughput and Analytical Performance

Limits of Detection Se 1ppt Te 10ppt*

As 2ppt Bi 10ppt* Sb 2ppt *performance with optimised multi-reflectance filter

Linear Dynamic Range Up to 10 ppm

Sample Throughput Up to 80 samples per hour

Autosampler Up to 142 sample, random access

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Power Requirements Voltage 230V AC at 50 Hz

or 120V AC at 60 Hz

Voltage Fluctuation ±10%

Power Total system, not including PC, 46 VA

Operating Environment -5°C to +40°C, further details available on request.

Technical Standard Compliant with the legal requirements of the Low Voltage Directive

73/23/EEC and the EMC directive 89/336/EEC

The System is also Compliant with the Following Standards

Safety Built to IEC 1010-1 (EN61010-1)

Safety requirements for electrical equipment for measurement, control

and laboratory use

EMC EN50081-1

Generic emission, residential, commercial light industrial environment

EN50082-1

Generic immunity, residential, commercial light industrial environment

System Specification

Weight Actual: 17.5 Kg

Packed: 29 Kg including manuals/spares and consumables kit

Dimensions Actual: 460 H x 380 W x 350 D (mm)

Packed: 750 H x 600 W x 500 D (mm)

Software

The PSA Millennium Software provides instrument control and data acquisition software running under MS Windows™

Fully Multi-Tasking

- Add a calibration, multiple samples and checks at the touch of a button
- Set the system to automatically shut down at the end of a run
- User definable results display
- Set over range criteria, such as automatically running a blank after a high sample
- Export to LIMS software
- Complete saving of all information about a particular sample
- Keep a history of all modifications made to a particular method

As Standard the Millennium Excalibur System Comprises

Millennium Excalibur

Random Access Multiple Tray Autosampler

PSA Millennium Software

All interface cabling

Installation Kit

Consumables Kit (up to 6 months supply depending on use)

User Manual



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Optional Items

Personal Computer (Pentium based). (Full specification available on request). Printer compatible with above PC

Millennium Excalibur is a PSA Tradename. M/S Windows is a Microsoft Tradename.

