

P S ANALYTICAL

PRODUCT SPECIFICATION

PSA 10.045 MILLENNIUM MERLIN ATOMIC ABSORPTION (AAS) SYSTEM

System Description

Automated atomic absorption spectrometer with integrated vapour generation for the determination of mercury to trace and ultra trace levels. Hollow cathode lamp excitation source with detection by Photodiode. Capable of operation with both continuous flow and discrete sample injection options. 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 with PSA's Millennium software running

under MS Windows™

Data Connection Built in USB interface

Computer Specification The minimum specification of the PC needed to run the

software is Intel Pentium processor, 64 MB RAM., 50 MB free HD space, SVGA graphics 800 x 600, 256 colours, Windows 95, 98, NT, 2000 or XP operating

system

Sample Throughput and Analytical Performance

Limit of Detection 20 ppt (without pre-concentration)

Linear Dynamic Range 20 ppt to 100 ppb in continuous mode.

Sample Throughput Up to 60 samples per hour

Autosampler Up to 200 sample, random access. (4 versions

available)

Power Requirements Voltage 230V AC at 50 Hz or 120V AC at 60

Hz

Voltage Fluctuation <u>+</u> 10%

Power Total system, not including PC, 32 VA



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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

Weight Actual: 14 Kg

Packed: 25 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 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 overrange 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 Merlin System Comprises

Millennium Merlin

Random Access Multiple Tray Autosampler

PSA Millennium Software

All interface cabling

Installation Kit

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

Users Manuals

Optional Items

Personal Computer Pentium based. (Full specification available on request)

Printer compatible with above PC Atomic Fluorescence Detector

Note: Millennium Merlin is a PSA Tradename. MS Windows is a Microsoft Tradename



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