

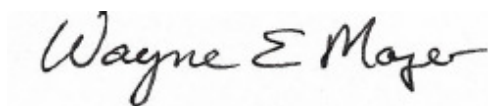
Hydra II C: Instrument Specifications

Principles :	Atomic Absorption with Thermal Decomposition
Source of light :	Low pressure mercury lamp
Apparatus control :	External PC Computer Sys.
Hg wavelength :	253,65 nm
Detectors :	UV enhanced silicon Photodiodes (2)
Shutter	Electronic
Detection limit :	0.0015 ng Hg
Working ranges :	Automatic scale change Dynamic range 0,005 ng – 1500 ng Hg Max. 25,000 ng extended range.
Repeatability :	<1.5% @ 20ng Hg
Average Analysis time :	5 minutes
Sample Treatment :	Adjustable from :
Drying Temp (°C)	50-500
Decomposition Temp (°C)	500-1000
Catalyst Temp (°C)	550-750
Amalgamator Temp (°C)	850-950
Drying time :	1 – 999 s
Decomposition time :	1 – 999 s
Waiting time :	1 – 999 s
Furnace Thermal Control Response	Thermocouple actual measurements
Calibration :	
Number of standards :	Standard solution or Solid CRM Min. 2 (blank & high), Max 33
Sample type	Liquid or solid
Maximum injection volume	500µl (refractory boat), 1500 µl (nickel boat)
Maximum sample weight	500 mg (refractory boat), 1500 mg (nickel boat)
Pre-concentration capability	10 time maximum
Carrier gas :	Oxygen or dry, clean compressed air
Input pressure :	100kPa/14.5PSI
Flow:	100-400 ml/min
Energy consumption (W):	~400W
Standby (W):	<100W
Dimensions w/AS(mm):	470Wx 457Dx 470H
Weight (kg) w/AS:	44lbs/20 kg

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Data	
Absorbance Plot	600 data points maximum
Absorbance Peak	Height or Area
Autosampler (AS)	
Number of sample	70 with small or large boats
Sample types	Liquid or solid
Others	
Power:	110/220 VAC, 50/60 Hz
Operating conditions:	
Temperature :	16 – 35 °C
Relative humidity :	max. 80 % non-condensing

For TLL



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