

Instrument Origin and Identification

Instrument Series:	PRECISION HYDROGEN	
Model:	Precision Hydrogen SL	
Instrument Description:	Hydrogen Gas Generator	
Flow Variant:	100cc	
Water Load Variant:	Manual Fill Pumped Fill Pressure Fill	
Colour Variant:	Black White	
Manufacturer:	Peak Scientific Instruments Ltd Fountain Crescent Inchinnan Business Park Inchinnan Renfrew PA4 9RE Scotland, UK	
Service Contact:	Peak Scientific Instruments Ltd Tel. +44 (0)141-812-8100 Email support@peakscientific.com	
Serial Number:		
Condition when Received:	New Used Reconditioned	
Date Received:		
Installed Location:		
Purchase Order Number:		
Identification / Asset Number:		



Instrument Specification

Instrument Parameter	Specified Range	Acceptable	
Output	openion image		
Pressure	100 psi (6.9 bar)		
Hydrogen Flow Rate	100cc/min (ATP)		
(Select as appropriate)	200cc/min (ATP)		

Environment and Siting

Has the instrument been adequately acclimatized since transport or storage?			
(Requires 3 hours before operation)			
Yes No			
Operating Parameter	Specified Range	Acceptable	
Ambient Temperature	10-35 °C (50-95 °F)		
Maximum Relative Humidity	90% Non-Condensing		
Maximum Altitude	3000 m (9800 ft)		
Supply Voltage & Frequency	100-240V ±10%, 50/60Hz		
	Refer to User Manual for acceptable range(s)		
Siting – Generator Placement	Sit Generator on a Flat Surface		
	Minimum Clearance around Machine – 75mm		
Siting – General Lab Conditions	Extraction Fan/Fume Hood (Recommended)		
Mains Power Outlet	Within 2m Radius to Generator		
Water Purity Requirement	<1.0µ Siemens/cm OR >1 Mohm-cm		
Comments:			



Instrument Delivery and Documentation

Unpack the instrument carefully. Are any items missing against the Fitting kit list as per Installation Guide?			
	Yes		No
If yes, state missing items:			
Is there any damage to the instrumer	nt?		
	Yes		No
If yes, describe damage:			
Manufacturer informed:	Yes		No
Fittings Kit			Present Missing
Fittings Kit included			
Is all standard documentation includ	ed?		
			Present Missing
User Manual (Available via download fr	om Peak Extra	anet)	
Warranty Registration Card			
Installation Guide			
Site Preparation Guide (Available via Download from Peak Extr	ranet)		
Installation			
Installed By:	User		Authorized Engineer
Comments:			



Summary Report

Instrument: Precision Hydrogen SL		Serial Number:	
Assessment of Complete Installation Qualification:			
	No Deviations	Deviations	
Deviation	Impact on Operation	Justification for Acceptance	
Successful completion of the preceding activities and checks indicates that this instrument has been satisfactorily delivered and installed. The instrument has passed the Installation Qualification procedure and may now be submitted for Operational Qualification.			
IQ Completed By:		Date:	
Deviations Approved By:		Date:	
IQ Approved By:		Date:	

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OPERATIONAL QUALIFICATION

Pre-Run Checks

Pre-Run Check	ок	Discrepancy	N/A
Check water purity			
Deioniser column installed			
Connect delivery connection to instrument			
Vents to fume hood			
Pumped and Valve	d Fill generators	only*	
Position of water bottle			
Water inlet pressure 1 ≤ P ≤ 3 bar			
Connect inline water filter			
Connect water supply			
Comments:			

*Refer to Installation Guide and User Manual for details



Functional Tests

Functional Test	Acceptance Criteria	Pass	Fail
	Fan Running		
Apply Mains Power / Switch On	Bubbles produced in water tank		
	Water tank LED pulsing green		
Allow to run for 10 minutes	Water tank LED solid dim green		
Allow to full for 10 minutes	Bubbles in water tank cease		
Press front button	Water tank LED turns solid bright green		
	Output pressure 100 psi*		
Output connections leak tight [†]	No leaks between generator and instrument		
Notes:			
* If lower pressures are required, an external pressure regulator should be fitted to the output port of the generator.			
[†] Liquid leak detectors should not be used on the Precision Hydrogen. If a liquid solution must be used, then it should be IPA based, or a portable Hydrogen detector should be used.			
Serial number of calibrated flow meter:			
Calibration due date of flow meter:			
Serial number of calibrated pressure gauge:			
Calibration due date of pressure gauge:			
Comments:			

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OPERATIONAL QUALIFICATION

Training

Date Instrument Released for Use:			
Trained Operators	Read User Manual	Practical Training	Authorized Signature
Comments:			

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Assessment of Complete Operational Qualification:			
	No Deviations	Deviations	
Deviation	Impact on Operation	Justification for Acceptance	
Successful completion of the preceding activities and checks indicates that this instrument is operating satisfactorily following delivery and installation. The instrument has passed the Operational Qualification procedure and may now be released for use.			
OQ Completed By:		Date:	
Deviations Approved By:		Date:	
OQ Approved By:		Date:	

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