

INSTALLATION QUALIFICATION

Instrument Origin and Identification

Instrument Series:	Infinity XE 50 Series
Model:	5020
Instrument Description:	Nitrogen Gas Generator
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 <input type="checkbox"/> Used <input type="checkbox"/> Reconditioned <input type="checkbox"/>
Date Received:	
Installed Location:	
Purchase Order Number:	
Identification / Asset Number:	

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Instrument Specification

Instrument Parameter	Specified Range	Acceptable
Output		
Nitrogen Pressure	Refer to generator specific data	<input type="checkbox"/>
Nitrogen Flow Rate	Refer to generator specific data	<input type="checkbox"/>
System Purge Time	1 minute	<input type="checkbox"/>

Environment and Siting

<p>Has the instrument been adequately acclimatized since transport or storage? (Requires 3 hours before operation)</p> <p style="text-align: center;">Yes <input type="checkbox"/> No <input type="checkbox"/></p>		
Operating Parameter	Specified Range	Acceptable
Ambient Temperature	5-30 °C (41-86 °F)	<input type="checkbox"/>
Maximum Relative Humidity	80% Non-Condensing	<input type="checkbox"/>
Maximum Altitude	2000 m (6500 ft)	<input type="checkbox"/>
Supply Voltage & Frequency	100/230V ±10%, 50/60Hz Refer to User Manual for acceptable range	<input type="checkbox"/>
Siting – In-House / Large Space	Minimum Clearance around Machine – 75mm	<input type="checkbox"/>
Siting – In-House / Confined Space	Air Conditioner/Extraction Fan	<input type="checkbox"/>
Mains Power Outlet	Within 2m Radius to Generator	<input type="checkbox"/>
<p>Comments:</p> 		

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Instrument Delivery and Documentation

Unpack the instrument carefully. Are any items missing against the Packing List?			
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
If yes, state missing items:			
Is there any damage to the instrument?			
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
If yes, describe damage:			
Manufacturer informed:			
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Is all standard documentation included?			
	Present		Missing
Declaration of Conformity	<input type="checkbox"/>		<input type="checkbox"/>
Warranty Registration Card	<input type="checkbox"/>		<input type="checkbox"/>

Installation

Installed By:	User <input type="checkbox"/>	Authorized Engineer <input type="checkbox"/>
Comments:		

INSTALLATION QUALIFICATION

Summary Report

Instrument: INFINITY XE 5020		Serial Number:	
Assessment of Complete Installation Qualification: No Deviations <input type="checkbox"/> Deviations <input type="checkbox"/>			
Deviation	Impact on Operation	Justification for Acceptance	
Successful completion of the preceding activities and checks indicate 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:	

OPERATIONAL QUALIFICATION

Pre-Run Checks

Pre-Run Check	OK	Discrepancy	N/A
Confirm inlet air pressure meets requirement. Refer to generator specific data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm inlet air flow meets requirement. Refer to generator specific data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power-off / Isolate Generator from Mains Power / Allow pressure to drop to Zero	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outlet pressure gauge showing 0 psig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drain line connected to suitable outlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nitrogen Outlet disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			

Functional Tests

Note: A flow controller should be temporarily connected to the Nitrogen outlet to run these tests.

Functional Test	Acceptance Criteria	Pass	Fail
Apply Mains Power / Switch On	On-Off Switch illuminates	<input type="checkbox"/>	<input type="checkbox"/>
Open Compressed Air inlet valve	Outlet Pressure Gauge shows increasing pressure Refer to generator specific data to set outlet pressure	<input type="checkbox"/>	<input type="checkbox"/>
Allow to run for 10 minutes. (Ensure Side panel is fitted)	Pressure builds to set outlet pressure	<input type="checkbox"/>	<input type="checkbox"/>
Shut off outlet flow	Confirm "Eco-Mode" LED illuminates and the pressure settles at pressure switch setting (default 90Psi)	<input type="checkbox"/>	<input type="checkbox"/>
After functional test - <ol style="list-style-type: none"> 1. Power-off / Isolate Generator from Mains Power / Allow pressure to drop to Zero 2. Remove test flow controller 3. Connect Gas line to instrument 4. Apply Mains Power / Switch On 5. Allow to run for 10 minutes 			
Output pressure	Stable pressure shown on output pressure gauge	<input type="checkbox"/>	<input type="checkbox"/>
Output Connection Leak Tight	No Leaks	<input type="checkbox"/>	<input type="checkbox"/>
Comments: 			

OPERATIONAL QUALIFICATION

Calibration

This instrument is supplied fully calibrated by the manufacturer using equipment traceable to national standards. Calibration directly following installation is not usually required.		
Calibration Step	Pass	Fail
Calibrate output flow(s) Serial No. of Calibrated Flow Meter -: Calibration Due Date of Flow Meter -:	<input type="checkbox"/>	<input type="checkbox"/>
Calibrate output pressure(s) Serial No. of Calibrated Pressure Gauge -: Calibration Due Date of Pressure Gauge -:	<input type="checkbox"/>	<input type="checkbox"/>
Comments:		

Training

Date Instrument Released for Use:			
Trained Operators	Read User Manual	Practical Training	Authorized Signature
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:			

OPERATIONAL QUALIFICATION

Summary Report

Instrument: INFINITY XE 5020		Serial Number:	
Assessment of Complete Operational Qualification: No Deviations <input type="checkbox"/> Deviations <input type="checkbox"/>			
Deviation	Impact on Operation	Justification for Acceptance	
Successful completion of the preceding activities and checks indicate 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:	