

INSTALLATION QUALIFICATION

Instrument Origin and Identification

Instrument Series:	N/A
Model:	Collision Gas Add-On
Instrument Description:	Nitrogen Gas Generator Add-On
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		
Output Pressure	83 psi (5.72 bar)	<input type="checkbox"/>
Output Flow Rate	200 cc/min (ATP)	<input type="checkbox"/>
Initialisation Time	3 hours	<input type="checkbox"/>
System Purge Time	30 minutes	<input type="checkbox"/>

Environment and Siting

Has the instrument been adequately acclimatised since transport or storage? (Requires 3 hours before operation)		
Yes <input type="checkbox"/> No <input type="checkbox"/>		
Operating Parameter	Specified Range	Acceptable
Ambient Temperature	5-35 °C (41-95 °F)	<input type="checkbox"/>
Maximum Relative Humidity	80% Non-Condensing	<input type="checkbox"/>
Maximum Altitude	3000m (9800ft)	<input type="checkbox"/>
Supply Voltage & Frequency	230VAC, 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"/>

Comments:

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Instrument Delivery and Documentation

Unpack the instrument carefully. Are any items missing against the Packing List?

Yes No

If yes, state missing items:

Is there any damage to the instrument?

Yes No

If yes, describe damage:

Manufacturer informed: Yes No

Is all standard documentation included?

	Present	Missing
User Manual (available via download form Peak Extranet)	<input type="checkbox"/>	<input type="checkbox"/>
Installation Guide	<input type="checkbox"/>	<input type="checkbox"/>
Warranty Registration Card	<input type="checkbox"/>	<input type="checkbox"/>

Installation

Installed By: User Authorised Engineer

Comments:

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Summary Report

Instrument: Collision Gas Add-On		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 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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Pre-Run Checks

Pre-Run Check	OK	Discrepancy	N/A
Pressure bars on HMI showing 0 psi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas Outlets Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power-off / Isolate Generator from Mains Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drain line connected to suitable outlet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split output fitting connected to XE35 Nitrogen Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			

Functional Tests

Functional Test	Acceptance Criteria	Pass	Fail
Apply Mains Power / Switch On	Voltage measured between 220V – 240V +/- 10%	<input type="checkbox"/>	<input type="checkbox"/>
Allow to run for 3 hours. (Ensure Top Panel is fitted)	Output pressure builds to 83 psi	<input type="checkbox"/>	<input type="checkbox"/>
Output pressures	Stable pressure shown on HMI pressure bars	<input type="checkbox"/>	<input type="checkbox"/>

After 30 functional test -

1. Perform Calibration on the Generator

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 Serial No. of Calibrated Flow Meter -: Calibration Due Date of Flow Meter -:	<input type="checkbox"/>	<input type="checkbox"/>
Calibrate output pressure Serial No. of Calibrated Pressure Gauge -: Calibration Due Date of Pressure Gauge -:	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

2. Power-off / Isolate Generator from Mains Power / Allow pressure to drop to Zero
3. Connect Gas lines to instrument
4. Apply Mains Power / Switch On
5. Allow to run for 3 hours

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Training

Date Instrument Released for Use:			
Trained Operators	Read User Manual	Practical Training	Authorised 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: Collision Gas Add-On		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 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: