



## Calibration Certificate for Argon Calibrated Leak

Triumf  
 6095 Nurseries Road  
 Vancouver, BC V6T 2A3  
 Canada

Account#: 100944  
 Sales Order#: 192426-1  
 RA#: L09108

VIC Leak Detection certifies that the calibrated gas leak listed is traceable to the National Institute of Standards and Technology (NIST) test numbers 269870-04 or 270640-04. The total uncertainty in the measured leak rate of this gas leak standard is less than  $\pm 10\%$ . This certification shall not be reproduced except in full.

This instrument is calibrated in accordance with Calibration Procedure No.: 900  
 Gas: Argon, Model: OM7 - 300, Type: Glass orifice, S/N: 11-183, Part Number: 924-395

Calibration Date: 10/4/2018    Fill Pressure: 105 psia    Fill Date: 10/1/2018    Reservoir volume: 300 cc  
 Calibration Temperature: 25 °C    Linear Temperature Coefficient: 0.2% % per C°

Certified Leak Rate Values		
	Argon Tracer Gas:	Air Equivalent:
atm*cc/sec:	2.02E-07	
mbar*/l/sec:	2.05E-07	
Pa*m3/sec:	2.04E-08	
mol/sec:	9.01E-12	
Recalibration or 10% Fall-Off Date: 10/1/2019		

Note: Air equivalent leak rates are calculated only for molecular flow helium calibrators.

VIC Traceability	
Trace S/N:	04-977
Trace Model:	PM7
Trace Current Date:	07/2019
Uncertainty $\pm$ :	10.00%

As Received Calibrator Status	
As Received Leak Rate (atm*cc/sec):	2.03E-08
As Received Leak Rate in Calibration:	OUT
A/R Note: Recal overdue.	

Final Inspection By: Sue Voigt  
 Sue Voigt, Calibration Laboratory Technician

**Vacuum Instruments Corporation, LLC**  
 Designers and Manufacturers of Leak Detectors, Gas Handling Equipment, and Complete Leak Detection Solutions  
 2101 Ninth Avenue • Ronkonkoma, New York 11779  
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## Calibration Certificate for Neon Calibrated Leak

Triumf  
 6095 Nurseries Road  
 Vancouver, BC V6T 2A3  
 Canada

Account#: 100944  
 Sales Order#: 192426-2  
 RA#: L09108

VIC Leak Detection certifies that the calibrated gas leak listed is traceable to the National Institute of Standards and Technology (NIST) test numbers 269870-04 or 270640-04. The total uncertainty in the measured leak rate of this gas leak standard is less than  $\pm 10\%$ . This certification shall not be reproduced except in full.

This instrument is calibrated in accordance with Calibration Procedure No.: 900

Gas: Neon, Model: OM7 - 300, Type: Glass orifice, S/N: 11-180, Part Number: 924-395

Calibration Date: 10/12/2018 Fill Pressure: 115 psia Fill Date: 10/1/2018 Reservoir volume: 300 cc

Calibration Temperature: 23 °C Linear Temperature Coefficient: 0.2% % per C°

Certified Leak Rate Values		
	Neon Tracer Gas:	Air Equivalent:
atm*cc/sec:	1.75E-07	
mbar*l/sec:	1.77E-07	
Pa*m3/sec:	1.77E-08	
mol/sec:	7.80E-12	
Recalibration or 10% Fall-Off Date: 10/1/2019		

Note: Air equivalent leak rates are calculated only for molecular flow helium calibrators.

VIC Traceability	
Trace S/N:	04-977
Trace Model:	PM7
Trace Current Date:	07/2019
Uncertainty $\pm$ :	10.00%

As Received Calibrator Status	
As Received Leak Rate (atm*cc/sec):	2.19E-08
As Received Leak Rate in Calibration:	OUT
A/R Note: Recal overdue.	

Final Inspection By: Sue Voigt

Sue Voigt, Calibration Laboratory Technician

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