

Thermach AT3000 Certificate of Calibration

Form Number: F-345-086 Rev. M 18-Jun-21

Work Instructions: WI-086 Rev. B 26-Sep-10

Certificate Number:	2022-473							Page	e: 1 of 10
Customer: Address: City: State: Zip:	Universal Thermal 217 Center St Manawa WI 54949	Console Serial Number: Device ID Number: Booth Number: With in 3%:	AT3000 ATPC100157 N/A 1 Yes	Hopper Serial Number: Hopper Serial Number:	AT1200 RPFT100652 AT1200 RPFT100653				
Name: Phone Number:	Allen Hildebrand 920-596-2983	Adjustments:	No	ochar Number.	N111100000				
		N.I.	S.T. Instrum	nents Used for	This Calibra	tion			
Test Instrument Make: Model: Serial Number: Next Calibration Due:	Press. Transducer Fluke PV350 PM-21 9-Nov-22	Test Instrument: Make: Model: Serial Number: Next Calibration Due:	Multi Meter Fluke 87V MM-13 22-Jun-23	Test Instrument: Make: Model: Serial Number: Next Calibration Due:	Amp Clamp Meter Fluke i1010 AC-44 22-Jun-23	Test Instrument: Make: Model: Serial Number: Next Calibration Due:	Multi Meter Fluke 233 MM-11 21-Apr-23		
Test Instrument: Low Flow Make: Model: Serial Number: Next Calibration Due:	Mass Flow Meter Alicat 75 scfh PCU50SLPM 282154 24-Nov-22	Test Instrument Medium Flow Make: Model: Serial Number: Next Calibration Due:	Mass Flow Meter Alicat 400 scfh PCU250SLPM 282155 24-Nov-22						
Gas Orifices: Primary Gas: Primary Gas: Secondary Gas: Powder Carrier Gas:	Sizes #56 #80 #97 or #103 #77	Gas Argon Helium Hydrogen Argon or Nitrogen	Flow [FS] 511.12 110.28 31.43 or 7.34 46.2 or 50.2			on Column of Each Sheet ifications, or Better, For 0-3% Green is Accepta 3.1-5% Orange is Aler 5.1% - > Red Is Fail	The Individual Device		
Notes:									
Calibrated By: Calibrated Date:	Jeremy Bailey 18-Jul-22	Calibration Due:	18-Jul-23	Signature:	Isko				



Customer: Universal Thermal

Amperage Display

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 Certificate Number:
 2022-473

 Console:
 AT3000

 Serial Number:
 ATPC100157

Device ID Number: N/A Booth Number: 1
Device Under Test: Arc Gas Gauge

Testing Instrument: Multi Meter 233 Serial Number: MM-11 Testing Instrument: Amp Clamp Meter i1010 Serial Number: AC-44

Pressure Full Scale [FS] = 1500 Amps

Amps	Amp Meter	As Found	As Found	As Found	Tolerences	As Left	As Left	As Left	Tolerences
Set Point	Display Reading	NIST Meter	Amps Deviation	Amps % Deviation	Pass/Fail	NIST Meter	Amps Deviation	Amps % Deviation	Pass/Fail
500	500	496	-4.0	-0.3	Pass	496	-4.0	-0.3	Pass
600	600	593	-7.0	-0.5	Pass	593	-7.0	-0.5	Pass
700	700	695	-5.0	-0.3	Pass	695	-5.0	-0.3	Pass
800	800	787	-13.0	-0.9	Pass	787	-13.0	-0.9	Pass
900	900	888	-12.0	-0.8	Pass	888	-12.0	-0.8	Pass

System Volts Display

 Console:
 AT3000
 Serial Number:
 ATPC100157

 Device ID Number:
 N/A
 Booth Number:
 1

Device Under Test: Sys Volts Display

Testing Instrument: Multi Meter 233 Serial Number: MM-11

Volts Full Scale [FS] = 200 Volts

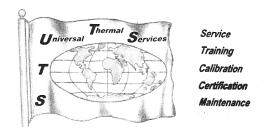
Volt Meter Set Point	Volt Meter Display Reading	As Found NIST Meter	As Found Volts Deviation	As Found Volts % Deviation	Tolerences Pass/Fail	As Left NIST Meter	As Left Volts Deviation	As Left Volts % Deviation	Tolerences Pass/Fail
32.0	32.0	33.4	1.4	0.7	Pass	33.4	1.4	0.7	Pass
45.0	45.0	46.2	1.2	0.6	Pass	46.2	1.2	0.6	Pass
52.3	52.3	54.0	1.7	0.9	Pass	54.0	1.7	0.9	Pass
55.0	55.0	56.5	1.5	0.8	Pass	56.5	1.5	0.8	Pass
59.7	59.7	60.2	0.5	0.3	Pass	60.2	0.5	0.3	Pass
60.6	60.6	62.0	1.4	0.7	Pass	62.0	1.4	0.7	Pass

Gun Volts Display

Testing Instrument:	Multi Meter	233	Serial Number:	MM-11					
Volt Meter	Volt Meter	As Found	As Found	As Found	Tolerences	As Left	As Left	As Left	Tolerences
Set Point	Display Reading	NIST Meter	Volts Deviation	Volts % Deviation	Pass/Fail	NIST Meter	Volts Deviation	Volts % Deviation	Pass/Fail
32.0	32.0	32.3	0.3	0.1	Pass	32.3	0.3	0.1	Pass
45.0	45.0	45.5	0.5	0.3	Pass	45.5	0.5	0.3	Pass
52.3	52.3	52.7	0.4	0.2	Pass	52.7	0.4	0.2	Pass
59.7	59.7	59.5	-0.2	-0.1	Pass	59.5	-0.2	-0.1	Pass
60.6	60.6	60.4	-0.2	-0.1	Pass	60.4	-0.2	-0.1	Pass

 Calibrated By:
 Jeremy Bailey

 Calibrated Date:
 18-Jul-22
 Calibration Due:
 18-Jul-23
 Signature:



Customer: Universal Thermal

Arc Gas Gauge [P1]

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Certificate Number: 2022-473 Console:

AT3000

300 PSI

ATPC100157 Serial Number:

Device ID Number: Device Under Test: Primary Gas Gauge **Booth Number:**

1

Testing Instrument:

Pressure Full Scale [FS] =

PM-21 Multi Meter 87V Serial Number: MM-13 Testing Instrument: Press. Transducer PV350 Serial Number:

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
30	30	30.4	0.4	0.1	Pass	30.4	0.4	0.1	Pass
50	50	50.3	0.3	0.1	Pass	50.3	0.3	0.1	Pass
70	70	70.5	0.5	0.2	Pass	70.5	0.5	0.2	Pass
90	90	90.2	0.2	0.1	Pass	90.2	0.2	0.1	Pass
110	110	109.4	-0.6	-0.2	Pass	109.4	-0.6	-0.2	Pass
130	130	130.2	0.2	0.1	Pass	130.2	0.2	0.1	Pass
150	150	149.8	-0.2	-0.1	Pass	149.8	-0.2	-0.1	Pass

Arc Gas Pressure [P2]

Console: AT3000 Device ID Number:

N/A

ATPC100157 Serial Number: **Booth Number:**

Device Under Test: Primary Gas Gauge

Testing Instrument: Multi Meter 87V Serial Number: MM-13 PV350 PM-21 Testing Instrument: Press. Transducer Serial Number:

Pressure Full Scale [FS] = 160 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	Tolerance Pass / Fail	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation	Tolerance Pass / Fail
10	10	9.3	-0.7	-0.4	Pass	9.3	-0.7	-0.4	Pass
30	30	29.8	-0.2	-0.1	Pass	29.8	-0.2	-0.1	Pass
50	50	49.4	-0.6	-0.4	Pass	49.4	-0.6	-0.4	Pass
70	70	69.8	-0.2	-0.1	Pass	69.8	-0.2	-0.1	Pass
90	90	89.7	-0.3	-0.2	Pass	89.7	-0.3	-0.2	Pass
110	110	110.3	0.3	0.2	Pass	110.3	0.3	0.2	Pass
130	130	130.7	0.7	0.4	Pass	130.7	0.7	0.4	Pass
150	150	150.6	0.6	0.4	Pass	150.6	0.6	0.4	Pass

Calibrated By: Jeremy Bailey Calibrated Date: 18-Jul-22 Calibration Due: 18-Jul-23 Signature:

arsko



Calibration Certification Maintenance

Universal Thermal Services Allen R. Hildebrand (President) E7064 Knopp Road Manawa, Wisconsin 54949 Phone - Fax 920-596-2983 uts@ wolfnet.net

Customer: Universal Thermal

Aux Gas Gauge [P1]

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Certificate Number:

2022-473 AT3000

N/A

Multi Meter

Serial Number:

ATPC100157

MM-13

Booth Number:

1

Device Under Test: Secondary Gas Gauge

87V Serial Number: Testing Instrument:

Press. Transducer

Serial Number:

PM-21

Pressure Full Scale [FS] =

Console:

Device ID Number:

Testing Instrument:

300 PSI

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
30	30	30.7	0.7	0.2	Pass	30.7	0.7	0.2	Pass
50	50	50.5	0.5	0.2	Pass	50.5	0.5	0.2	Pass
70	70	70.4	0.4	0.1	Pass	70.4	0.4	0.1	Pass
90	90	90.1	0.1	0.0	Pass	90.1	0.1	0.0	Pass

Aux Gas Pressure [P2]

Console: AT3000 **Device ID Number:**

N/A

Serial Number: **Booth Number:**

Serial Number:

ATPC100157

Device Under Test: Secondary Gas Gauge

Testing Instrument:

Multi Meter 87V MM-13

Testing Instrument:

arsko

Press. Transducer

PV350

PV350

Serial Number: PM-21

Pressure Full Scale [FS] =

160 PSI

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
10	10	10.3	0.3	0.2	Pass	10.3	0.3	0.2	Pass
30	30	30.6	0.6	0.4	Pass	30.6	0.6	0.4	Pass
50	50	50.4	0.4	0.2	Pass	50.4	0.4	0.2	Pass
70	70	70.4	0.4	0.3	Pass	70.4	0.4	0.3	Pass
90	90	90.6	0.6	0.4	Pass	90.6	0.6	0.4	Pass

Calibrated By:

Jeremy Bailey 18-Jul-22 Calibrated Date:

Calibration Due:

18-Jul-23

Signature:



Service Training Calibration Certification Maintenance

Universal Thermal Services Allen R. Hildebrand (President) E7064 Knopp Road Manawa, Wisconsin 54949 Phone - Fax 920-596-2983 uts@ wolfnet.net

Customer: Universal Thermal #1 Carrier Gas Gauge [P1]

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PM-21

Certificate Number: 2022-473

AT3000

Serial Number:

Serial Number:

ATPC100157

Device ID Number: N/A Device Under Test:

Arc Gas Gauge Multi Meter

Booth Number:

MM-13

PV350 Testing Instrument: Press. Transducer Serial Number:

Pressure Full Scale [FS] =

Console:

Testing Instrument:

200 PSI

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
20	20	19.7	-0.3	-0.2	Pass	19.7	-0.3	-0.2	Pass
30	30	29.9	-0.1	-0.1	Pass	29.9	-0.1	-0.1	Pass
40	40	39.6	-0.4	-0.2	Pass	39.6	-0.4	-0.2	Pass
50	50	49.4	-0.6	-0.3	Pass	49.4	-0.6	-0.3	Pass
60	60	59.0	-1.0	-0.5	Pass	59.0	-1.0	-0.5	Pass
70	70	69.6	-0.4	-0.2	Pass	69.6	-0.4	-0.2	Pass
80	80	79.7	-0.3	-0.1	Pass	79.7	-0.3	-0.1	Pass
90	90	89.9	-0.1	0.0	Pass	89.9	-0.1	0.0	Pass

#1 Carrier Gas Gauge [P2]

Console: AT3000 Serial Number: ATPC100157 N/A **Device ID Number: Booth Number:**

87V

Arc Gas Gauge **Device Under Test:**

Multi Meter 87V Serial Number: MM-13 PV350 Serial Number: PM-21 Testing Instrument: Testing Instrument: Press. Transducer

Pressure Full Scale [FS] = 100 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	Tolerance Pass / Fail	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation	Tolerance Pass / Fail
10	10	9.5	-0.5	-0.5	Pass	9.5	-0.5	-0.5	Pass
20	20	19.5	-0.5	-0.5	Pass	19.5	-0.5	-0.5	Pass
30	30	29.7	-0.3	-0.3	Pass	29.7	-0.3	-0.3	Pass
40	40	39.6	-0.4	-0.4	Pass	39.6	-0.4	-0.4	Pass
50	50	49.8	-0.2	-0.2	Pass	49.8	-0.2	-0.2	Pass
60	60	60.1	0.1	0.1	Pass	60.1	0.1	0.1	Pass
70	70	70.2	0.2	0.2	Pass	70.2	0.2	0.2	Pass
80	80	80.2	0.2	0.2	Pass	80.2	0.2	0.2	Pass

Signature: Calibrated By: Jeremy Bailey Calibrated Date: 18-Jul-22 **Calibration Due:** 18-Jul-23



Service Training Calibration Certification Maintenance

Universal Thermal Services Allen R. Hildebrand (President) E7064 Knopp Road Manawa, Wisconsin 54949 Phone - Fax 920-596-2983 uts@ wolfnet.net

Customer: Universal Thermal

#2 Carrier Gas Gauge [P1]

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PM-21

Certificate Number: Console:

2022-473 AT3000

Serial Number:

87V

ATPC100157

Device ID Number:

Testing Instrument:

N/A

Booth Number:

Device Under Test: Arc Gas Gauge

Multi Meter

Serial Number:

MM-13

Testing Instrument:

Press. Transducer

PV350

Serial Number:

Pressure Full Scale [FS] =

200 PSI

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
20	20	19.3	-0.7	-0.4	Pass	19.3	-0.7	-0.4	Pass
30	30	29.3	-0.7	-0.4	Pass	29.3	-0.7	-0.4	Pass
40	40	39.4	-0.6	-0.3	Pass	39.4	-0.6	-0.3	Pass
50	50	49.3	-0.7	-0.4	Pass	49.3	-0.7	-0.4	Pass
60	60	59.4	-0.6	-0.3	Pass	59.4	-0.6	-0.3	Pass
70	70	69.5	-0.5	-0.3	Pass	69.5	-0.5	-0.3	Pass
80	80	79.6	-0.4	-0.2	Pass	79.6	-0.4	-0.2	Pass
90	90	89.4	-0.6	-0.3	Pass	89.4	-0.6	-0.3	Pass

#2 Carrier Gas Gauge [P2]

Console: Device ID Number:

AT3000 N/A

Serial Number:

ATPC100157

Booth Number:

Device Under Test: Testing Instrument: Arc Gas Gauge

Multi Meter 87V Serial Number:

MM-13

Testing Instrument:

Press. Transducer

PV350

Serial Number:

PM-21

Pressure Full Scale [FS] =

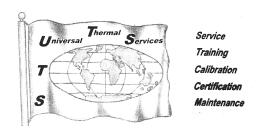
100 PSI

Pressure (PSI)	As Found	As Found	Actual PSI	As Found	Tolerance	As Left	As Left	As Left	Tolerance
Set Point	Gauge Reading	NIST Pressure	Deviation	PSI% Deviation	Pass / Fail	Gauge Reading	PSI Deviation	PSI % Deviation	Pass / Fail
10	10	9.8	-0.2	-0.2	Pass	9.8	-0.2	-0.2	Pass
20	20	19.6	-0.4	-0.4	Pass	19.6	-0.4	-0.4	Pass
30	30	29.9	-0.1	-0.1	Pass	29.9	-0.1	-0.1	Pass
40	40	39.9	-0.1	-0.1	Pass	39.9	-0.1	-0.1	Pass
50	50	50.2	0.2	0.2	Pass	50.2	0.2	0.2	Pass
60	60	60.5	0.5	0.5	Pass	60.5	0.5	0.5	Pass
70	70	70.5	0.5	0.5	Pass	70.5	0.5	0.5	Pass
80	80	80.7	0.7	0.7	Pass	80.7	0.7	0.7	Pass

Calibrated By: Jeremy Bailey 18-Jul-22 Calibrated Date:

Calibration Due: 18-Jul-23 Signature:

aloko



Customer: Universal Thermal **Argon Flow**

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2022-473 **Certificate Number:** Console:

Device Under Test:

AT3000 Serial Number: Device ID Number: N/A **Booth Number:** Critical Orifice

Critical Orifice:

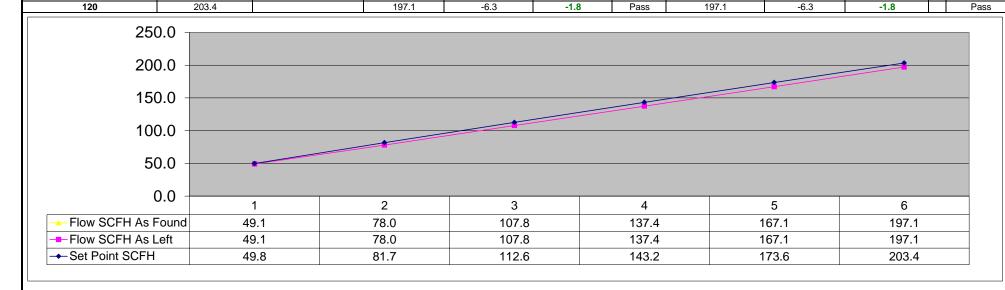
ATPC100157 Type of Gas: #56 Scale Rate:

Flow is in SCFH

Argon

Full Flow SCFH [FS]: 348.2 Based on 200 PSI

Testing Instrument:	Mass Flow Meter	Alicat 400 scfh	Serial Number:	282155						
Set Point	Critical Orifices		As Found	As Found	SCFH %	Tolerance	As Left	As Left	As Left SCFH	Tolerance
Pressure	SCFH Converted		NIST SCFH	SCFH Deviation	Deviation	Pass / Fail	NIST SCFH	SCFH Deviation	% Deviation	Pass / Fail
20	49.8		49.1	-0.7	-0.2	Pass	49.1	-0.7	-0.2	Pass
40	81.7		78.0	-3.7	-1.1	Pass	78.0	-3.7	-1.1	Pass
60	112.6		107.8	-4.8	-1.4	Pass	107.8	-4.8	-1.4	Pass
80	143.2		137.4	-5.8	-1.7	Pass	137.4	-5.8	-1.7	Pass
100	173.6		167.1	-6.5	-1.9	Pass	167.1	-6.5	-1.9	Pass





Customer: Universal Thermal

Hydrogen Flow

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Certificate Number: 2022-473 Console:

Device ID Number:

Device Under Test:

AT3000 N/A

Serial Number: **Booth Number:** Critical Orifice **Critical Orifice:**

ATPC100157 #97

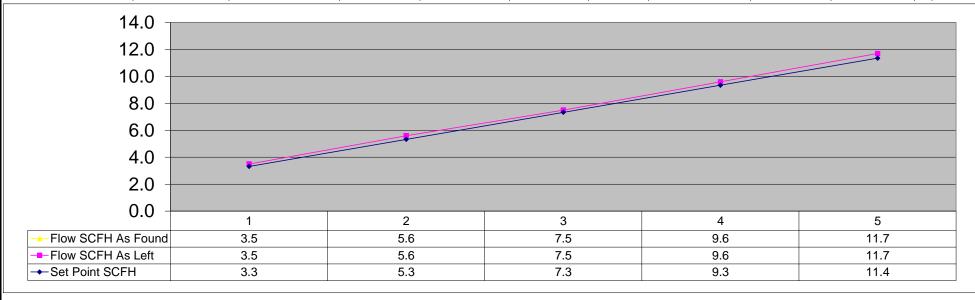
Type of Gas Scale Rate:

Flow is in SCFH Full Flow SCFH [FS]: 21.3

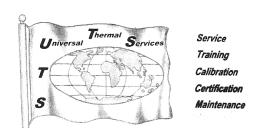
Based on 200 PSI

Testing Instrument:	Mass Flow Meter	Alicat 75 scfh	Serial Number:	282154						
Set Point Pressure	Critical Orifices SCFH Converted		As Found NIST SCFH	As Found SCFH Deviation	SCFH % Deviation	Tolerance Pass / Fail	As Left NIST SCFH	As Left SCFH Deviation	As Left SCFH % Deviation	Tolerance Pass / Fail
20	3.3		3.5	0.2	0.8	Pass	3.5	0.2	0.8	Pass
40	5.3		5.6	0.3	1.3	Pass	5.6	0.3	1.3	Pass
60	7.3		7.5	0.2	0.8	Pass	7.5	0.2	0.8	Pass
80	9.3		9.6	0.3	1.2	Pass	9.6	0.3	1.2	Pass
100	11.4		11.7	0.3	1.6	Pass	11.7	0.3	1.6	Pass

Hydrogen



groko Calibrated By: Jeremy Bailey Calibration Due: 18-Jul-23 Calibrated Date: 18-Jul-22 Signature:



Customer:

Universal Thermal

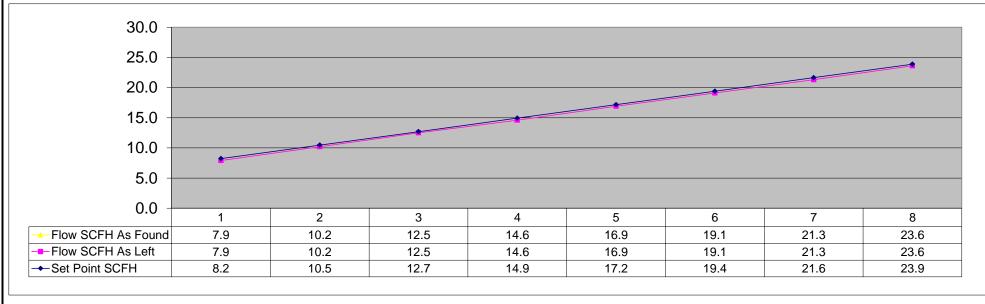
Argon Carrier Flow #1

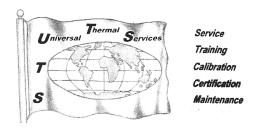
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Console:	AT3000	Serial Number:	ATPC100157	Type of Gas:	Argon				
Device ID Number:	N/A	Booth Number:	1						
Device Under Test:	Critical Orifice	Critical Orifice:	#77	Scale Rate:	Flow is in SCFH	Full Flow SCFH [FS]:	23.9	Based on 100 PSI	
Testing Instrument:	Mass Flow Meter	Alicat 75 scfh	Serial Number:	282154					

resung instrument.	Mass Flow Meter	Alleat 75 Selfi	Seriai Nulliber.	202134						
Set Point	Critical Orifices		As Found	As Found	SCFH %	Tolerance	As Left	As Left	As Left SCFH	Tolerand
Pressure	SCFH Converted		NIST SCFH	SCFH Deviation	Deviation	Pass / Fail	NIST SCFH	SCFH Deviation	% Deviation	Pass / Fa
20	8.2		7.9	-0.3	-1.4	Pass	7.9	-0.3	-1.4	Pass
30	10.5		10.2	-0.3	-1.1	Pass	10.2	-0.3	-1.1	Pass
40	12.7		12.5	-0.2	-0.8	Pass	12.5	-0.2	-0.8	Pass
50	14.9		14.6	-0.3	-1.4	Pass	14.6	-0.3	-1.4	Pass
60	17.2		16.9	-0.3	-1.1	Pass	16.9	-0.3	-1.1	Pass
70	19.4		19.1	-0.3	-1.3	Pass	19.1	-0.3	-1.3	Pass
80	21.6		21.3	-0.3	-1.4	Pass	21.3	-0.3	-1.4	Pass
90	23.9		23.6	-0.3	-1.1	Pass	23.6	-0.3	-1.1	Pass





Customer: Universal Thermal

Console:

Argon Carrier Flow #2

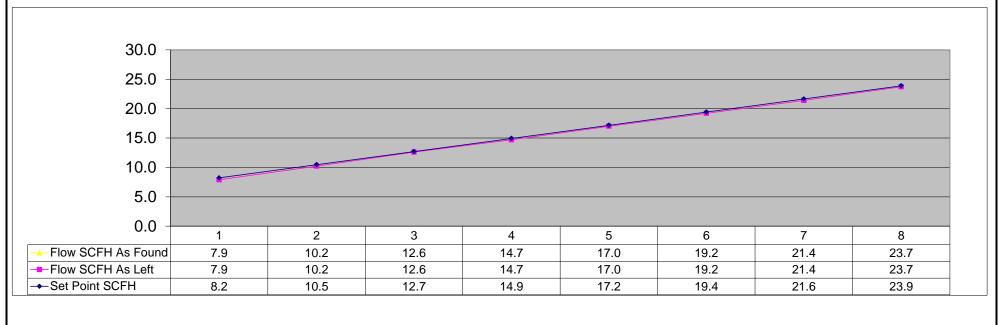
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Argon

Type of Gas: Device ID Number: N/A **Booth Number:** Critical Orifice Device Under Test: **Critical Orifice:** #77 Scale Rate: Flow is in SCFH Full Flow SCFH [FS]: 23.9 Based on 100 PSI

ATPC100157

Testing Instrument:	Mass Flow Meter	Alicat 75 scfh	Serial Number:	282154						
Set Point Pressure	Critical Orifices SCFH Converted		As Found NIST SCFH	As Found SCFH Deviation	SCFH % Deviation	Tolerance Pass / Fail	As Left NIST SCFH	As Left SCFH Deviation	As Left SCFH % Deviation	Tolerance Pass / Fail
20	8.2		7.9	-0.3	-1.4	Pass	7.9	-0.3	-1.4	Pass
30	10.5		10.2	-0.3	-1.1	Pass	10.2	-0.3	-1.1	Pass
40	12.7		12.6	-0.1	-0.4	Pass	12.6	-0.1	-0.4	Pass
50	14.9		14.7	-0.2	-1.0	Pass	14.7	-0.2	-1.0	Pass
60	17.2		17.0	-0.2	-0.7	Pass	17.0	-0.2	-0.7	Pass
70	19.4		19.2	-0.2	-0.8	Pass	19.2	-0.2	-0.8	Pass
80	21.6		21.4	-0.2	-1.0	Pass	21.4	-0.2	-1.0	Pass
90	23.9		23.7	-0.2	-0.7	Pass	23.7	-0.2	-0.7	Pass



Calibrated By: Jeremy Bailey Calibrated Date: 18-Jul-22 Calibration Due: 18-Jul-23 Signature:

Serial Number: