

Calibrated By: Calibrated Date:

Allen Hildebrand

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

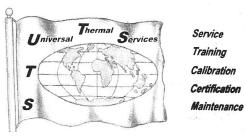
Thermach AT3000 Certificate of Calibration

			Cerunc	ale of G	anpration		Form	# AT3000 Rev	C 3/19/2009
Cert. No. :	2009-930							Pa	ge: 1 of 10
Customer:	ABC	Console	AT 3000	Hopper	AT1200 #2		Power Supply	AT1000	
Address:	1365 Newton	S/N:	ATCP100102	S/N:	RPFT100274		S/N:	LF440413C	
City:	Boucherville	Device ID#:	M280						
State:	QU	Booth #:	2	Hopper	NA				
Zip:	J4B 5H2	With in 3%:	No	S/N:	NA				
Name:	John	Adjustments:	Yes						
Phone #:	451-449-4612								
		N.I.S.	T. Instruments	Used for T	his Calibration				
Test Inst:	Press. Transducer	Test Inst:	Multi Meter	Test Inst:	Amp Clamp Meter	Test Inst:			
Make:	Fluke	Make:	Fluke	Make:	Fluke	Make:			
Model:	PV350	Model:	87V	Model:	i1010	Model:			
Serial No:	107	Serial No:	88190113	Serial No:	91562357	Serial No:			
Next Cal. Due:	1/6/2010	Next Cal. Due:	6/27/2009	Next Cal. Due:	3/11/2009	Next Cal. Due:			
Test Inst: Low Flow	Mass Flow Meter	Test Inst: Medium Flow	Mass Flow Meter						
Make:	Alicat Scientific 0-75 scfh	Make:	Alicat Scientific 0-400 scfh						
Model:	PUC-50SLPM	Model:	PUC-250SLPM						
Serial No:	44770	Serial #:	44771						
Next Cal. Due:	1/13/20010	Next Cal. Due:	1/13/20010						
0 0-:6:	0:	0	Fl [F0]						
Gas Orifices	Sizes	Gas	Flow [FS]						
Primary Gas	#56	Argon	511.12						
Primary Gas	#80	Helium	110.28						
Secondary Gas	#97 or #103 #77	Hydrogen	31.43 or 7.34						
Powder Carrier Gas	#//	Argon or Nitrogen	46.2 or 50.2						
	0 - 1 D (/D	B					T =	
	System Performance	e w/Prameters as	Provided by the Op	erator initiali	у			Evidence	
Gas	Pressure	Gun						Contam	ination
Ar	40	SG100						Argon:	No
H2		Amps						Helium:	No
N2		950						Hydrogen:	N/A
He	220	Volts	Volts after Calibration					Nitrogen:	N/A
		44.1	47.6					Air:	N/A
Notes: Changed the #56 Orifice of	out, due to above 5% error on the I	ow side. It now is below 3%	error on the low side. Please	note volts after calil	pration vs volts before calibration	n!			
				There reme are cam					
							Green 0-3% Acc	ceptable	
							Orange 3.1-5%		
							Red 5.1 and u		

Signature: allen R Hillebard

Next Calibration Due:

10/20/2010



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

Customer:

ABC

Amperage Display

Form # AT3000 Rev C 3/19/2009

Cert. No. :	2009-930							Page:	: 2 of 10
Console:	AT 3000		Serial Number:	ATCP100102					-
Device ID #:	M280A		Booth Number:	2					
Device Under Test:	Arc Gas Gauge		Device ID #:						
			·						
Testing Instrument:	Multi Meter	87V	Serial Number:	88190113	Testing Instrument:	Amp Clamp Meter	i1010	Serial Number:	91562357

Pressure Full Scale [FS] = 1500 Amps

Amps Set Point	As Found Display Reading	As Found NIST Meter	Actual Amps Deviation	As Found Amps % Deviation	As Left Display Reading	As Left Amps Deviation	As Left Amps % Deviation		
500	500	507	7.0	0.5	507	7.0	0.5		
600	600	611	11.0	0.7	611	11.0	0.7		
700	700	711	11.0	0.7	711	11.0	0.7		
800	800	816	16.0	1.1	816	16.0	1.1		
900	900	917	17.0	1.1	917	17.0	1.1		
950	950	969	19.0	1.3	969	19.0	1.3		

Volts Display

Console:	AT 3000	Serial Number:	ATCP100102	
Device ID #:	M280B	Booth Number:	2	
Device Under Test:	Arc Gas Gauge	Device ID #:		

88190113

Volts Full Scale [FS] = 200 Volts

Multi Meter

Testing Instrument:

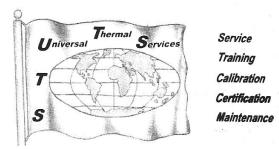
Volt Meter Set Point	Meter Reading	NIST Meter	Volts Deviation	Volts % Deviation	Volts As Left Meter Reading	As Left Volt Deviation	As Left Volts % Deviation		
30	30	29.5	-0.5	-0.3	29.5	-0.5	-0.3		
32	32	31.1	-0.9	-0.4	31.1	-0.9	-0.4		
35	33	34.1	-0.9	-0.4	34.1	-0.9	-0.4		
39	39	38.2	-0.8	-0.4	38.2	-0.8	-0.4		
42	42	41.3	-0.7	-0.4	41.3	-0.7	-0.4		
45	45	44.3	-0.7	-0.4	44.3	-0.7	-0.4		

	System Performance w/Prameters after Calibration							
Gas	Pressure	Gun	Amps	Volts				
Ar	40	SG100	950	47				•
H2								
N2								
He	220							

Calibrated By: Allen Hildebrand Signature: Aller Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010

87V

Serial Number:



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

Customer:

Device Under Test:

ABC

Primary Gas Gauge

Arc Gas Gauge [P1]

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 Console:
 AT 3000
 Serial Number:
 ATCP100102

 Device ID #:
 M280C
 Booth Number:
 2

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

Device ID #:

Pressure Full Scale [FS] = 300 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	9.9	-0.1	0.0	9.9	-0.1	0.0		
30	30	29.3	-0.7	-0.2	29.3	-0.7	-0.2		
50	50	50.1	0.1	0.0	50.1	0.1	0.0		
70	70	69.9	-0.1	0.0	69.9	-0.1	0.0		
90	90	90.0	0.0	0.0	90.0	0.0	0.0		
110	110	109.7	-0.3	-0.1	109.7	-0.3	-0.1		
130	130	129.9	-0.1	0.0	129.9	-0.1	0.0		•
150	150	150.4	0.4	0.1	150.4	0.4	0.1		

Arc Gas Pressure [P2]

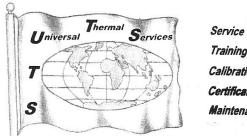
Device ID #: M280D Booth Number: 2 Device Under Test: Primary Gas Gauge Device ID #:	Console:	AT 3000	Serial Number:	ATCP100102
Device Under Test: Primary Gas Gauge Device ID #:	Device ID #:	M280D	Booth Number:	2
201100 Citadi 1 Timariy Cab Galago	Device Under Test:	Primary Gas Gauge	Device ID #:	

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

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	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	9.8	-0.2	-0.1	9.8	-0.2	-0.1		
30	30	29.0	-1.0	-0.6	29.0	-1.0	-0.6		
50	50	48.7	-1.3	-0.8	48.7	-1.3	-0.8		
70	70	49.0	-21.0	-13.1	49.0	-21.0	-13.1		
90	90	89.3	-0.7	-0.4	89.3	-0.7	-0.4		
110	110	109.7	-0.3	-0.2	109.7	-0.3	-0.2		
130	130	130.2	0.2	0.1	130.2	0.2	0.1		
150	150	150.4	0.4	0.3	150.4	0.4	0.3		

Calibrated By: Allen Hildebrand
Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010 Signature: Allen R Hildebrand



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:

ABC

Aux Gas Gauge [P1]

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2009-930 Cert. No.: Console: ATCP100102 AT 3000 Serial Number: Device ID #: M280E **Booth Number: Device Under Test:** Secondary Gas Gauge Device ID #:

Multi Meter 87V Serial Number: 88190113 Testing Instrument: PV350 Serial Number: 107 Testing Instrument: Press. Transducer

Pressure Full Scale [FS] = 300 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	9.5	-0.5	-0.2	9.5	-0.5	-0.2		
30	30	29.8	-0.2	-0.1	29.8	-0.2	-0.1		
50	50	48.4	-1.6	-0.5	48.4	-1.6	-0.5		
70	70	69.0	-1.0	-0.3	69.0	-1.0	-0.3		
90	90	89.3	-0.7	-0.2	89.3	-0.7	-0.2		
110	110	109.2	-0.8	-0.3	109.2	-0.8	-0.3		
130	130	129.8	-0.2	-0.1	129.8	-0.2	-0.1		
150	150	149.2	-0.8	-0.3	149.2	-0.8	-0.3		

Aux Gas Pressure [P2]

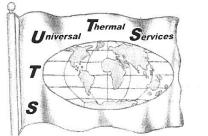
Console:	AT 3000	Serial Number:	ATCP100102
Device ID #:	M280F	Booth Number:	2
Device Under Test:	Secondary Gas Gauge	Device ID #:	

Multi Meter 87V PV350 Testing Instrument: Serial Number: 88190113 Testing Instrument: Press. Transducer Serial Number: 107

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	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	10.8	0.8	0.5	10.8	0.8	0.5		
30	30	30.0	0.0	0.0	30.0	0.0	0.0		
50	50	50.4	0.4	0.2	50.4	0.4	0.2		
70	70	70.4	0.4	0.3	70.4	0.4	0.3		
90	90	90.7	0.7	0.4	90.7	0.7	0.4		
110	110	111.0	1.0	0.6	111.0	1.0	0.6		
130	130	131.2	1.2	0.7	131.2	1.2	0.7		
150	150	151.2	1.2	0.7	151.2	1.2	0.7		

Signature: aller R Hiller Calibrated By: Allen Hildebrand Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010



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Customer:

ABC

#1 Carrier Gas Gauge [P1]

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 Cert. No.:
 2009-930

 Console:
 AT 3000
 Serial Number:
 ATCP100102

 Device ID #:
 M280G
 Booth Number:
 2

 Device Under Test:
 Arc Gas Gauge
 Device ID #:

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

Pressure Full Scale [FS] = 200 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	11.0	1.0	0.5	11.0	1.0	0.5		
20	20	19.8	-0.2	-0.1	19.8	-0.2	-0.1		
30	30	29.9	-0.1	-0.1	29.9	-0.1	-0.1		
40	40	39.7	-0.3	-0.1	39.7	-0.3	-0.1		
60	60	59.6	-0.4	-0.2	59.6	-0.4	-0.2		
80	80	79.4	-0.6	-0.3	79.4	-0.6	-0.3		
90	90	89.5	-0.5	-0.3	89.5	-0.5	-0.3		
100	100	97.1	-2.9	-1.5	97.1	-2.9	-1.5		

#1 Carrier Gas Gauge [P2]

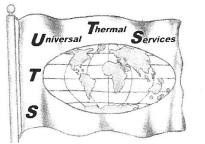
Console:	AT 3000	Serial Number:	ATCP100102
Device ID #:	M280H	Booth Number:	2
Device Under Test:	Arc Gas Gauge	Device ID #:	

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

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	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	9.6	-0.4	-0.4	9.6	-0.4	-0.4		
20	20	19.6	-0.4	-0.4	19.6	-0.4	-0.4		
30	30	29.6	-0.4	-0.4	29.6	-0.4	-0.4		•
40	40	39.4	-0.6	-0.6	39.4	-0.6	-0.6		
60	60	59.1	-0.9	-0.9	59.1	-0.9	-0.9		
80	80	79.2	-0.8	-0.8	79.2	-0.8	-0.8		•
90	90	89.4	-0.6	-0.6	89.4	-0.6	-0.6		
100	100	99.4	-0.6	-0.6	99.4	-0.6	-0.6		

Calibrated By: Allen Hildebrand
Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010 Signature: Allen R Hilleband



Service
Training
Calibration
Certification
Maintenance

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Customer:

Cert No :

ABC

2009-930

#2 Carrier Gas Gauge [P1]

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Console:	AT 3000	Serial Number:	ATCP100102	
Device ID #:	M280J	Booth Number:	2	
Device Under Test:	Arc Gas Gauge	Device ID #:		

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

Pressure Full Scale [FS] = 200 PSI

Pressure (PSI) Set Point	As Found Gauge Reading	As Found NIST Pressure	Actual PSI Deviation	As Found PSI% Deviation	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	10.8	0.8	0.4	10.8	0.8	0.4		
20	20	20.0	0.0	0.0	20.0	0.0	0.0		
30	30	29.8	-0.2	-0.1	29.8	-0.2	-0.1		
40	40	39.8	-0.2	-0.1	39.8	-0.2	-0.1		
60	60	59.8	-0.2	-0.1	59.8	-0.2	-0.1		
80	80	79.9	-0.1	0.0	79.9	-0.1	0.0		
90	90	89.4	-0.6	-0.3	89.4	-0.6	-0.3		
100	100	99.4	-0.6	-0.3	99.4	-0.6	-0.3		

#2 Carrier Gas Gauge [P2]

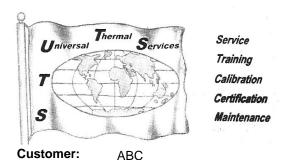
Console:	AT 3000	Serial Number:	r: ATCP100102
Device ID #:	M280K	Booth Number:	r: 2
Device Under Test:	Arc Gas Gauge	Device ID #:	t:

Testing Instrument: Multi Meter 87V Serial Number: 88190113 Testing Instrument: Press. Transducer PV350 Serial Number: 107

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	As Left Gauge Reading	As Left PSI Deviation	As Left PSI % Deviation		
10	10	10.8	0.8	0.8	10.8	0.8	0.8		
20	20	20.0	0.0	0.0	20.0	0.0	0.0		
30	30	29.8	-0.2	-0.2	29.8	-0.2	-0.2		
40	40	39.8	-0.2	-0.2	39.8	-0.2	-0.2		
60	60	59.8	-0.2	-0.2	59.8	-0.2	-0.2		
80	80	79.9	-0.1	-0.1	79.9	-0.1	-0.1		
90	90	89.4	-0.6	-0.6	89.4	-0.6	-0.6		
100	100	99.4	-0.6	-0.6	99.4	-0.6	-0.6		

Calibrated By: Allen Hildebrand
Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010 Signature: Caller & Aidebard



315.6

348.2

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

Pass

Argon Flow

.

180

200

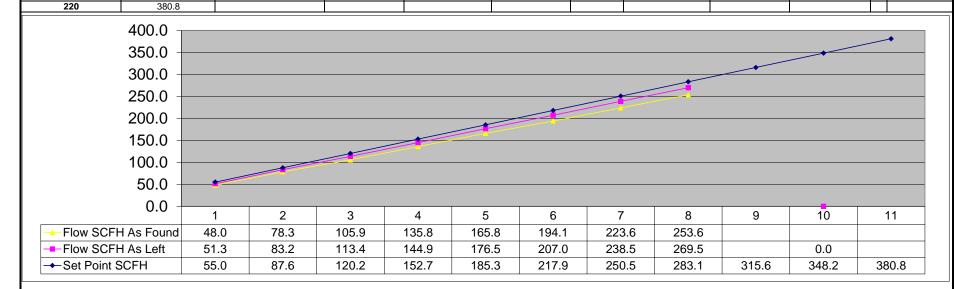
Cert. No: 2009-930 Form # AT3000 Rev C 3/19/2009
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Console: ATCP100102 Full Flow SCFH [FS]: AT 3000 Serial Number: Type of Gas: Argon 511.12 Device ID #: M280L **Booth Number: Device Under Test:** Critical Orifice Flows Critical Orifice: #56 Scale Rate: Flow is in SCFH

Testing Instrument: Mass Flow Meter Alicat Scientific 0-400 scfh Serial Number: 44771 SCFH % As Left SCFH Set Point Critical Orifices As Found As Found As Left As Left Pressure SCFH Converted **SCFH Actual SCFH Deviation** Deviation **SCFH SCFH Deviation** % Deviation 20 55.0 48.0 -7.0 -1.4 51.3 -3.7 -0.7 40 87.6 78.3 -9.3 -1.8 83.2 -4.4 -0.9 60 120.2 105.9 -14.3 -2.8 113.4 -6.8 -1.3 152.7 -16.9 144.9 -7.8 -1.5 80 135.8 100 185.3 165.8 -19.5 176.5 -8.8 -1.7 217.9 -23.8 207.0 -10.9 -2.1 120 194.1 140 250.5 223.6 -26.9 -5.3 238.5 -12.0 -2.3 160 283.1 253.6 -29.5 269.5 -13.6 -2.7

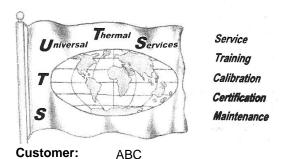
Failed

Pass



Changed the #56 orifice due to failure outside 5%.

Calibrated By: Allen Hildebrand
Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010 Signature:



53.8

60.9

67.9

75.0

82.1

Allen Hildebrand

140

160

180

200

220

Calibrated By:

Calibrated Date:

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0.9

0.7

1.1

1.1

0.9

Helium Flow

Carial Number

AT3000 Rev С 3/19/2009 Cert. No: 2009-930

Euli Elou CCEU (EC).

54.8

61.7

69.1

76.2

83.0

1.0

0.8

1.2

1.2

0.9

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Console:	AT 3000	Seriai Number:	A1CP100102	Type of Gas	nellum	FL	III FIOW SCFH [FS]:	110.28		
Device ID #:	M280M	Booth #:	2							
Device Under Test:	Critical Orifice Flows	Critical Orfice	#80	Scale Rate:	Flow is in SCFH					
Testing Instrument:	Mass Flow Meter	Alicat Scientific 0-400 scfh	Serial Number:	44771						
Set Point	Critical Orifices	As Found	As Found	As Found	SCFH %	As Left	As Left	As Left	As Left SCFH	
Pressure	SCFH Converted	NIST Volts	SCFH Actual	SCFH Deviation	Deviation	NIST Volts	SCFH	SCFH Deviation	% Deviation	
20	11.5		12.4	0.9	0.8		12.4	0.9	0.8	
40	18.5		19.4	0.9	0.8		19.4	0.9	0.8	
60	25.6		26.5	0.9	0.8		26.5	0.9	0.8	
80	32.6		33.7	1.1	1.0		33.7	1.1	1.0	
100	39.7		40.7	1.0	0.9		40.7	1.0	0.9	
120	46.8		47.8	1.0	0.9		47.8	1.0	0.9	

0.9

0.7

1.1

1.1

0.9

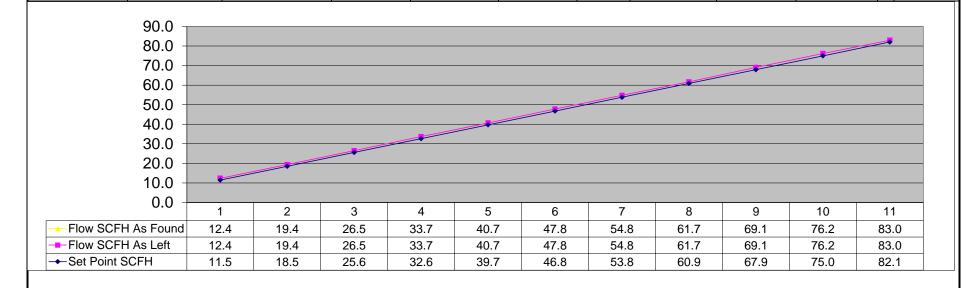
1.0

0.8

1.2

1.2

0.9



Signature:

Next Calibration Due:

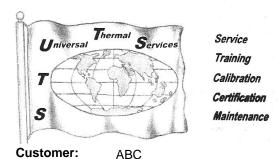
54.8

61.7

69.1

76.2

83.0



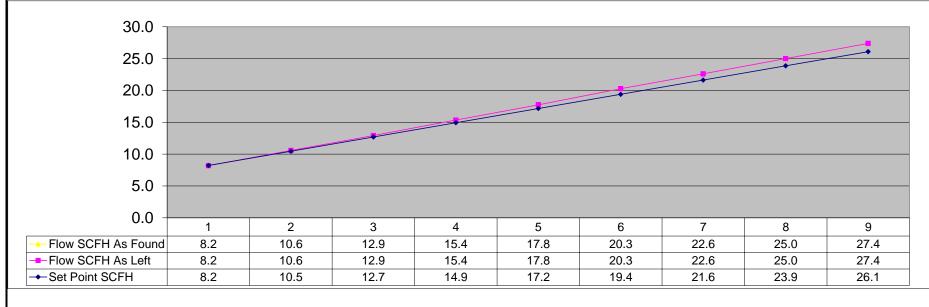
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Argon Carrier Flow #1

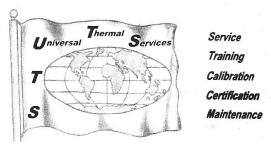
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Console:	AT 3000	Serial Number:	ATCP100102	Type of Gas:	Argon	Full Flow SCFH [FS]:	46.22	
Device ID #:	M280N	Booth Number:	2					
Device Under Test:	Critical Orifice Flows	Critical Orifice:	#77	Scale Rate:	Flow is in SCFH			

Testing Instrument:	Mass Flow Meter	Alicat Scientific 0-75 scfh	Serial Number:	44770					
Set Point Pressure	Critical Orifices SCFH Converted		As Found SCFH Actual	As Found SCFH Deviation	SCFH % Deviation	As Left SCFH	As Left SCFH Deviation	As Left SCFH % Deviation	
20	8.2		8.2	0.0	-0.1	8.2	0.0	-0.1	
30	10.5		10.6	0.1	0.3	10.6	0.1	0.3	
40	12.7		12.9	0.2	0.5	12.9	0.2	0.5	
50	14.9		15.4	0.4	0.9	15.4	0.4	0.9	
60	17.2		17.8	0.6	1.3	17.8	0.6	1.3	
70	19.4		20.3	0.9	1.9	20.3	0.9	1.9	
80	21.6		22.6	1.0	2.1	22.6	1.0	2.1	
90	23.9		25.0	1.1	2.4	25.0	1.1	2.4	
100	26.1		27.4	1.3	2.8	27.4	1.3	2.8	



Calibrated By: Allen Hildebrand Signature: Calibrated Date: Next Calibration Due: 10/20/2010



AT 3000

M280P

23.9

26.1

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

1.8

Customer: ABC

Cert. No:

Device ID #:

90

100

Console:

Argon Carrier Flow #2

2009-930 Form # AT3000 Rev C 3/19/2009
Page: 10 of 10

Argon

1.8

Full Flow SCFH [FS]:

24.7

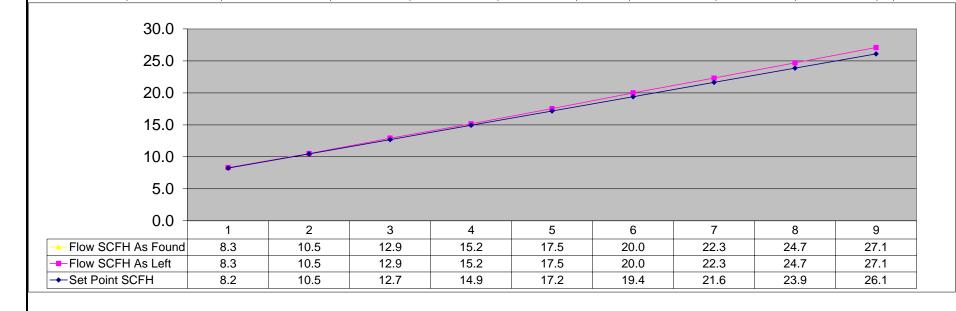
46.22

0.8

evice Under Test:	Critical Orifice Flows	Critical Orifice:	#77	Scale Rate:	Flow is in SCFH	Device ID #:			
esting Instrument:	Mass Flow Meter	Alicat Scientific 0-75 scfh	Serial Number:	44770					
O-t D-i-t	Onitional Onitions	<u> </u>	A - F	As Farmel	005110/	 A - 1 - f4	A - 1 - 64	A - 1 - 4 00 TH	
Set Point	Critical Orifices		As Found	As Found	SCFH %	As Left	As Left	As Left SCFH	
Pressure	SCFH Converted		SCFH Actual	SCFH Deviation	Deviation	SCFH	SCFH Deviation	% Deviation	
20	8.2		8.3	0.1	0.2	8.3	0.1	0.2	
30	10.5		10.5	0.0	0.1	10.5	0.0	0.1	
40	12.7		12.9	0.2	0.5	12.9	0.2	0.5	
50	14.9		15.2	0.2	0.5	15.2	0.2	0.5	
60	17.2		17.5	0.4	0.8	17.5	0.4	0.8	
70	19.4		20.0	0.6	1.3	20.0	0.6	1.3	
80	21.6		22.3	0.7	1.5	22.3	0.7	1.5	

Type of Gas:

0.8



Calibrated By: Allen Hildebrand
Calibrated Date: 4/20/2009 Next Calibration Due: 10/20/2010 Signature:

ATCP100102

24.7

Serial Number:

Booth Number: